The Institute of Radio Engineers

INCORPORATED

YEARBOOK 1948

A DIRECTORY OF RADIO ENGINEERS

AND A LISTING OF ENGINEERING PRODUCTS

Price, $7.50

THE INSTITUTE OF RADIO ENGINEERS

YEARBOOK 1948

The

Institute of Radio Engineers

YEARBOOK

1948

A DIRECTORY
OF RADIO ENGINEERS
AND A LISTING OF
ENGINEERING PRODUCTS

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Notre Dame, University of	I.R.E.-A.I.E.E.
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Armstrong, E. H.	1916–19; 1921; 1936–38			
Ashbridge, Sir Noel	1947		1947	
*Austin, L. W.	1914–17	1914		
Bailey, Austin	1940–42			
Bailey, S. L.	1943–48			Treasurer, 1948
Baker, W. R. G.	1940; 1948	1947		
*Ballantine, Stuart	1935–37	1935		
Barkhausen, Heinrich	1935		1935	
Barrow, W. L.	1943–45		1935	
Barton, F. S.	1945		1945	
Batcheller, Arthur	1928–32; 1934–36			
Batsel, M. C.	1933			
Bennett, E. M.	1923–25			
Beverage, H. H.	1936–39	1937		
Bown, Ralph	1926–29; 1937–39	1927	1926	
Brown, J. E.	1938			
*Bullard, W. H. G.	1916–21			
Cady, W. G.	1928–29; 1932–34	1932		Editor, 1929
Caldwell, O. H.	1932–35			
Carter, E. F.	1943–45			
Chaffee, E. L.	1922		1922	
Chamberlain, A. B.	1941–44			
Chambers, C. C.	1942			
Clayton, J. M.	1928–29			Secretary, 1928–29
Clement, L. M.	1945			
Coggeshall, I. S.	1941–44			
Coleman, J. B.	1948–49			
Colpitts, E. H.	1921–23			
*Conrad, Frank	1927			
Cosentino, A. T.	1941		1941	
Craven, T. A. M.	1937			
Crosby, M. G.	1947–49			
Cullum, A. E., Jr.	1948			
Cunningham, F. W.	1938–40			
Cutting, R. F.	1921–24	1922	1921	
*Davis, G. S.	1915; 1917–19			
de Forest, Lee	1930–32	1930		
Dellinger, J. H.	1924–31	1925	1924	
Deloraine, E. M.	1946		1946	
Eastham, Melville	1922–41			Treasurer, 1927–40
Eckersley, P. P.	1937		1937	
Edwards, C. P.	1931		1931	
Espenschied, Lloyd	1912–13; 1915–26; 1931			
Everitt, W. L.	1942–46	1945		

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Graham, Virgil M.	1935–41; 1948			
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Gustafson, G. E.	1943			
Guy, R. F.	1944–48			Treasurer, 1947
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Hazeltine, Alan	1923–27; 1936–39	1936		
Heising, R. A.	1927–30; 1933–35; 1939–41; 1943–49	1939		Treasurer, 1943–45
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*Hill, Guy	1914–16; 1918–20			
Hogan, J. V. L.	1912–36; 1948	1920	1916–19	
Horle, L. C. F.	1934; 1936–42; 1944–46	1940		
Horn, C. W.	1933–34			
Houck, H. W.	1931–32			
Howes, F. S.	1948			
*Hubley, Warren	1915–16; 1918–27			Treasurer, 1915–16; 1918–27
Hull, L. M.	1929–35	1933		
Hunter, T. A.	1948–49			
Hutcheson, J. A.	1948			
Jett, E. K.	1938			
Jansky, C. M., Jr.	1929–42	1934		
Johnson, J. K.	1942			
Jolliffe, C. B.	1936–37; 1944			
Kaar, I. J.	1939; 1948			
*Kennelly, A. E.	1916–18	1916		
Kolster, F. A.	1933–35			
Krumm, L. R.	1917; 1921			Treasurer, 1917
Lack, F. R.	1940; 1946			
Langmuir, Irving	1923–25	1923		
Lee, A. G.	1930		1930	
Lewis, G. H.	1918–19; 1926; 1935			
Llewellyn, F. B.	1939–48	1946		
Manson, R. H.	1927–33	1931		
Marriott, R. H.	1912–16; 1920–22; 1926–32	1912	1913	
McNicol, Donald	1919–28	1926	1925	
Meissner, Alexander	1929		1929	

* Deceased.

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Nichols, H. W.	1924–25			
*Pederson, P. O.	1939		1939	
Pickard, G. W.	1912–13	1913		
Pierce, G. W.	1915; 1918–19	1918–19	1915	
Poulsen, Valdemar	1936		1936	
Pratt, Haraden	1935–48	1938		Treasurer, 1941–42 Secretary, 1943–48
*Pupin, M. I.	1917	1917		
Reich, H. J.	1945; 1948			
Reoch, A. E.	1925–27			
Royden, G. T.	1946			
Rush, W. A.	1942		1942	
Sarnoff, David	1915–20			Secretary, 1915–17
Shackelford, B. E.	1945–48	1948		
Shepherd, J. E.	1948–50			
Shute, E. R.	1933–34			
Simon, E. J.	1912–15			Secretary, 1913–14
Sinclair, D. B.	1945–48			
Smith-Rose, R. L.			1948	
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*Stone, J. S.	1912; 1914–19	1915	1914	
Stratton, J. A.	1948–50			
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*Thompson, B. J.	1937–44			
Turner, H. M.	1933–46	1944		
van den Bijl, H. J.	1945		1945	
van der Pol, Balth.	1934		1934	
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Wheeler, L. P.	1940–45			
White, W. C.	1943–46			Treasurer, 1946
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Zenneck, Jonathan	1933		1933	

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Notre Dame, University of: H. E. Ellithorn

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Oklahoma Agricultural and Mechanical College: H. T. Fristoe
Oregon State College: A. L. Albert

Pennsylvania State College: G. L. Crossley
Pennsylvania, University of: C. C. Chambers
Pratt Institute: E. A. Hertzler
Princeton University: H. M. Chandler
Purdue University: R. P. Siskind

Queen's University: H. H. Stewart

Rensselaer Polytechnic Institute: H. D. Harris
Rice Institute: M. V. McEnany
Rose Polytechnic Institute: H. A. Moench
Rutgers University: J. L. Potter

Santa Clara, University of: W. J. Warren
South Carolina, University of: J. C. Cosby
Southern Methodist University: H. J. Smith
Stanford University: J. M. Pettit
Stevens Institute of Technology: Carl Neitzert
Syracuse University: C. S. Roys

Tennessee, University of: E. D. Shipley
Texas, University of: A. W. Straiton
Toledo, University of: D. A. Powers
Tufts College: A. H. Howell

Union College: F. W. Grover
United States Military Academy: F. K. Nichols
United States Naval Academy: G. R. Giet
Utah State Agricultural College: L. S. Cole
Utah, University of: O. C. Haycock

Virginia Polytechnic Institute: R. R. Wright
Virginia, University of: L. R. Quarles

Washington, University of: V. L. Palmer
Washington University: S. H. Van Wambeck
Wayne University: H. M. Hess
Western Ontario, University of: G. W. Woonton
West Virginia University: R. C. Colwell
Wisconsin, University of: Glenn Koehler
Worcester Polytechnic Institute: H. H. Newell
Wyoming, University of: R. G. Schaefer

Yale University: H. J. Reich

THE INSTITUTE

GENERAL

THOUSANDS of persons are today engaged in furthering, through research and engineering, the art of radio and the many fields ancillary thereto. And yet, of the important technical developments of mankind, few have as good a case as does radio in attributing its origin to a single individual. It is true that Clerk Maxwell, in the middle of the nineteenth century, drew upon the experiences of Faraday and Oersted; but the conception of electromagnetic waves was distinctly new and was due solely to that first director of the now celebrated Cavendish Laboratory. It remained for Heinrich Hertz, in his laboratory at Karlsruhe, to demonstrate experimentally for the first time the transmission and reception of electromagnetic waves generated by an oscillating circuit.

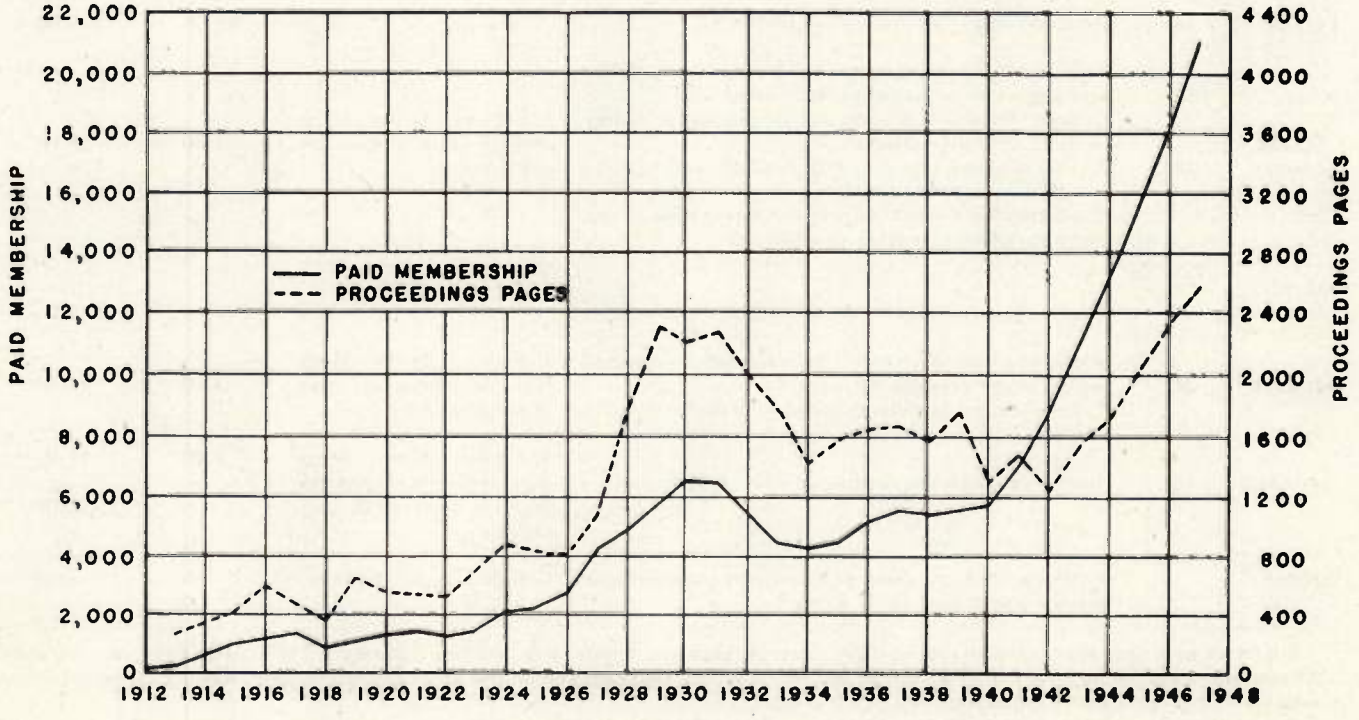
Alert to the significance of this phenomenon, Marconi, Poulsen, Alexanderson, Fessenden, and other engineers at home and abroad developed equipment by which messages in code could be transmitted without wires and over long distances. With the advent of the vacuum tube in the early years of the first World War, wireless telegraphy gave way to wireless telephony and, later, to radio broadcasting. Today radio in all its ramifications stands as a superb tribute to the combined developmental genius of many thousands of engineers skilled in electricity, acoustics, and electronics.

In May, 1912, which was about midway in the period between the Hertz experiments and the present, a small group of far-seeing engineers recognized in wireless of that day an infant industry which, through scientific research and engineering development, could be brought to magnificent fruition for the benefit of mankind. Here, as never before, was a means of communication which knew no national boundaries. The growth and success of radio development were then clearly seen to rest not alone upon international co-operation, but also upon collaboration in allied fields of science and engineering. It was against this background that A. N. Goldsmith, J. V. L. Hogan, and R. H. Marriott founded, through the merger of two small professional societies, The Institute of Radio Engineers.

Starting with fewer than fifty members in 1912, the Institute today (January, 1948) embraces some 21,000 members from every corner of the globe. The nature of this growth, to the end of 1947, is shown by the full line in the accompanying graph.

Let us now turn to the Institute of the present and consider its organization and management, its publications, and its aspirations.

The Institute of Radio Engineers is an incorporated, nonprofit organization having as its object the advancement of the theory and practice of radio and electronics, including allied branches of engineering and all related arts and sciences. To this end, the Institute prepares technical papers, reports, and general information of interest to radio engineers. It holds meetings and discussions in numerous localities throughout the United States and Canada. It maintains committees engaged in collating and standardizing the results of technical research and development. Typical among the fields covered in these activities are radio communication, sound broadcasting, television, marine and aerial guidance, electron tubes, radio-frequency measurements engineering education, electron optics, sound and pic-



ture electrical recording and reproduction, power and manufacturing applications of radio-and-electronic technique, industrial electronic control and processes, and medical electrical research and applications.

Membership in the Institute is distributed among various grades representative of experience and achievement in radio engineering and allied fields. The grade of Fellow is one of distinction, and appointment thereto by the Board of Directors is made on the basis of eminence and distinguished service. The grade of Special Member similarly is conferred by invitation only. Other grades—Senior Member, Member, Associate, and Student—are filled from applicants whose age, experience, and attainments conform to the respective requirements set forth in the Constitution.

In the interest of promoting the arts and techniques incident to radio development, the Institute has established some 20 technical committees covering fields of current activity in radio engineering and composed of persons of demonstrated ability in their respective fields. Through the Institute, these committees publish brochures on standards whose object in general is to set forth, partly in collaboration with technical committees of other engineering societies, accepted definitions of terms, and methods of measurements of physical quantities used in radio engineering practices.

To afford opportunity for personal contact and oral discussions, the Institute holds, at least once a year, a technical meeting for its entire membership. At this annual meeting, it is customary to invite manufacturers to exhibit equipment of recent design and interest to radio engineers. It is believed that by this means mutual benefit accrues to both engineer and manufacturer through first-hand acquaintance with the activities of one another. To facilitate interim meetings, Sections have been established throughout the United States, Canada, and Argentina, functioning under the aegis of the Institute. Section meetings afford opportunity for members to make acquaintances locally and to present and discuss matters of common interest with fellow members.

The management of The Institute of Radio Engineers resides in a Board of Directors, selected from the body of Fellows and Senior Members, acting through an Executive Committee and the officers of the Institute. The President and Vice-President are elected annually from the body of Fellows and Senior Members.

PUBLICATIONS OF THE INSTITUTE

Proceedings of the I.R.E.

Perhaps the most important single activity of the Institute is the publication of a technical journal. In 1913, the year following the founding of the Institute, appeared the first issue of the Proceedings of the Institute of Radio Engineers. Established first as a quarterly and later a bimonthly, the Proceedings for the last nineteen years has been published in twelve numbers annually. In 1939, the name of this technical organ of the Institute was shortened to Proceedings

MEMBERSHIP REQUIREMENTS AND DUES

GRADE	AGE	EXPERIENCE	REFERENCES	ENTRANCE FEE	ANNUAL DUES
Fellow	32	Awarded only. No application permitted.	—	$3.00	$15.00
Senior Member	28	a. Radio engineer or scientist—8 years of active practice and important technical radio or allied work. b. College teacher for 8 years and in responsible charge of radio or allied subjects. c. 8 years of active practice, with contributions to radio or allied engineering fields. d. Executive for 8 years with direct supervision of important radio-engineering or allied work.	5 Fellows, Senior Members, or other responsible individuals.	3.00	15.00
Special Member	32	Conferred only by invitation of the Board of Directors.	—	3.00	15.00
Member	24	a. Radio engineer or scientist—professionally competent and in active practice for 3 years. b. College teacher of radio or allied subjects for 3 years.	4 Fellows, Senior Members, Members, or other responsible individuals.	3.00	15.00
Associate	18	Interest in radio engineering or allied field.	3 Fellows, Senior Members, Members, Associates, or other responsible individuals.	3.00	15.00 and 10.00[1]
Student[2]	—	College student pursuing regular 4-year engineering or science course leading to degree.	College Faculty Member.	—	3.00

[1] $10.00 for each year that is within the first five years of Associate membership, starting January 1, 1948. After five years the dues shall automatically be increased from $10.00 to $15.00. The five years are retroactive from January 1, 1948, and are based on either consecutive or intermittent membership.

[2] A special application blank is required for this grade. Upon the expiration of student status, no entrance fee is required if immediate transfer is made to Associate grade.

OF THE I. R. E., and the format was changed to the style now in use.

The PROCEEDINGS OF THE I.R.E. is the official publication of The Institute of Radio Engineers, and in it are published technical papers, discussions, and communications which have been submitted to it and approved by the Board of Editors and Papers Committee of the Institute. Some 3000 papers have been published in the PROCEEDINGS. Of late years an increasing volume of nontechnical material in its pages has also proved of interest to members. The PROCEEDINGS OF THE I.R.E. is mailed without charge to all members; the subscription price to nonmembers is $18.00 per year, and $19.00 if sent to foreign destinations.

Beginning with the January, 1946, issue of the PROCEEDINGS OF THE I.R.E., the magazine has been presented in two parts. The PROCEEDINGS portion contains papers dealing with advanced research topics, the more advanced types of equipment and methods of development; mathematico-physical analyses of engineering problems; relatively advanced or abstract studies of scientific or technical matters, and the like. The WAVES AND ELECTRONS section contains papers dealing with current engineering developments of equipment and methods; tutorial papers covering specific aspects of radio and electronic engineering; historical papers; information concerning the activities of the members of the Institute; organizational news; book reviews; and other similar material. It should be emphasized that the technical standards and levels of paper acceptance are identical for both parts of the dual publication.

STANDARDS

Standardization reports have been issued since 1913. The early reports were confined to the definition of technical terms and presentation of standard graphical symbols. The more recent reports have gone considerably beyond this scope and include methods of testing certain items of equipment and measuring quantities associated with the radio art. Letter symbols and mathematical notation are proposed. The following I.R.E. Standards reports are available:

ELECTRONICS:

Definitions of Terms, Symbols, 1938. A reprint (1943) of the like-named section of "Standards on Electronics, 1938."

Methods of Testing Vacuum Tubes, 1938. A reprint (1943) of the like-named section of "Standards on Electronics, 1938."

TRANSMITTERS AND ANTENNAS:

Definitions of Terms, 1938. A reprint (1942) of the like-named section of "Standards on Transmitters and Antennas, 1938."

Methods of Testing, 1938. A reprint (1942) of the like-named section of "Standards on Transmitters and Antennas, 1938."

RADIO RECEIVERS:

Definitions of Terms, 1938. A reprint (1942) of the like-named section of "Standards on Radio Receivers, 1938."

Methods of Testing Broadcast Radio Receivers, 1938. A reprint (1942) of the like-named section of "Standards on Radio Receivers, 1938."

Methods of Testing Frequency-Modulation Broadcast Receivers, 1947.

RADIO WAVE PROPAGATION:

Definitions of Terms, 1942.

Measuring Methods, 1942. Methods of Measuring Radio Field Intensity, Measuring Power Radiated from an Antenna, Measuring Noise Field Intensity.

Definitions of Terms Relating to Guided Waves, 1945.

TELEVISION:

Methods of Testing Television Transmitters, 1947.

FACSIMILE:

Definitions of Terms, 1942.

Temporary Test Standards, 1943.

PIEZOELECTRIC CRYSTALS:

Recommended Terminology, 1945.

The Institute of Radio Engineers sponsored the publication of four standards of the American Standards Association, as follows:

AMERICAN STANDARDS:

Standard Vacuum-Tube Base and Socket Dimensions. (ASA C16.2–1939.)

Manufacturing Standards Applying to Broadcast Receivers. (ASA C16.3–1939.)

Loudspeaker Testing. (ASA C16.4–1942.)

Volume Measurements of Electrical Speech and Program Waves. (ASA C16.5–1942.)

YEARBOOKS

YEARBOOKS have been issued at various intervals. The first was published in 1914, and the second in 1916. The next seven were published annually between 1926 and 1932. Thereafter Yearbooks were published in 1937, 1942, and 1946. With this 1948 Yearbook it is expected that annual publication will be resumed.

AWARDS

The Institute annually bestows three awards in recognition of outstanding achievements in the theory, practice, or applications in the field of radio communication.

MEDAL OF HONOR

The Institute Medal of Honor is awarded in recognition of distinguished service rendered through substantial and important advancement in the science and art of radio communication. The recipient of this Medal is named by the Board of Directors upon recommendation by the Awards Committee.

RECIPIENTS OF MEDAL OF HONOR

E. H. Armstrong	1917	J. A. Fleming	1933
E. F. W. Alexanderson	1919	S. C. Hooper	1934
G. Marconi	1920	Balth. van der Pol	1935
R. A. Fessenden	1921	G. A. Campbell	1936
Lee de Forest	1922	Melville Eastham	1937
John Stone Stone	1923	J. H. Dellinger	1938
M. I. Pupin	1924	A. G. Lee	1939
G. W. Pickard	1926	Lloyd Espenschied	1940
L. W. Austin	1927	Alfred N. Goldsmith	1941
Jonathan Zenneck	1928	A. H. Taylor	1942
G. W. Pierce	1929	William Wilson	1943
P. O. Pedersen	1930	Haraden Pratt	1944
G. A. Ferrié	1931	H. H. Beverage	1945
A. E. Kennelly	1932	R. V. L. Hartley	1946
		L. C. F. Horle	1948

Morris Liebmann Memorial Prize

The Morris Liebmann Memorial Prize carries a monetary award of varying amount, derived from the income of a $10,000 endowment fund. The fund was donated by E. J. Simon, "a friend and member of the Institute," to preserve the memory of Colonel Morris N. Liebmann, who gave his life in the cause of the United States in the first World War. This prize is given annually to a member of the Institute who, in the opinion of a special committee, shall have made an important contribution to the radio art.

RECIPIENTS OF MORRIS LIEBMANN MEMORIAL PRIZE

L. F. Fuller	1919	V. K. Zworykin	1934
R. A. Weagant	1920	F. B. Llewellyn	1935
R. A. Heising	1921	B. J. Thompson	1936
C. S. Franklin	1922	W. H. Doherty	1937
H. H. Beverage	1923	G. C. Southworth	1938
J. R. Carson	1924	H. T. Friis	1939
Frank Conrad	1925	H. A. Wheeler	1940
Ralph Bown	1926	P. T. Farnsworth	1941
A. H. Taylor	1927	S. A. Schelkunoff	1942
W. G. Cady	1928	W. L. Barrow	1943
E. V. Appleton	1929	W. W. Hansen	1944
A. W. Hull	1930	Peter C. Goldmark	1945
Stuart Ballantine	1931	Albert Rose	1946
Edmond Bruce	1932	John R. Pierce	1947
Heinrich Barkhausen	1933	S. W. Seeley	1948

Browder J. Thompson Memorial Prize

The Browder J. Thompson Memorial Prize was established in 1945 for the purpose of stimulating research in the field of radio and electronics and to provide incentive for the careful preparation of papers describing such research. The award is given annually to the author or joint authors under thirty years of age at date of submission of original manuscript for that paper of sound merit recently published in the technical publications of The Institute of Radio Engineers, which, in the opinion of the Awards Committee of the Institute, constitutes the best combination of technical contribution to the field of radio and electronics and presentation of the subject.

The award comprises the income from a fund established by voluntary contributions to preserve the memory of Browder J. Thompson, a Director of the Institute when he was killed in action in World War II while on a special mission for the Secretary of War.

RECIPIENTS OF THE BROWDER J. THOMPSON MEMORIAL PRIZE

G. M. Lee	1946
Charles L. Dolph	1947
W. H. Huggins	1948

I.R.E. HEADQUARTERS BUILDING

During the recent war the use and importance of electronic methods and apparatus became of such widespread importance that the directors of the Institute were convinced that The Institute of Radio Engineers was destined to remain one of the great engineering societies of the world and steadily to increase its services to its members. Pressed by the need for adequate headquarters space, a Building Fund campaign was launched to raise a minimum of $500,000 for the purpose of providing the Institute with a permanent home, expanding the facilities of the Institute, and, in the process, of creating a closer union between radio engineers and their industry.

The response was conclusive both in magnitude and in its mode of accomplishment. The members of the I.R.E. and executives high in industry rallied with enthusiasm and vigor. Notable showings were made in every grade of membership, from Fellow to Student, and substantial contributions from a great number of organizations, both large and small, in the radio-and-electronic field, built up an impressive total of well over $600,000. The achievement made it clear that the industry appreciates its indebtedness to the engineers, and that they fully recognize the opportunities of advancement which their industry presents to them.

In 1945 the Institute purchased the building on the northeast corner of 79 Street and Fifth Avenue in New York City, as a permanent headquarters establishment. Acquired by the Institute at a cost comparable to the realty appraisal value of the land alone, when it was built as a family mansion in 1889 the house was designed to be one of the show places of New York.

Approximately two thirds of the original building fund has been spent for the land and the building, including the necessary alterations made to conform with the building and fire laws of New York City. The interest on the balance, invested principally in United States Treasury Bonds, it is hoped will cover the maintenance and operating costs of the building.

The completed headquarters establishment provides, in addition to offices for the permanent headquarters staff, adequate facilities for the activities for the Institute's official family, including dignified and impressive meeting places for its directors, officers, committees, and members. Members of the Institute are always welcome to inspect and utilize these facilities, and to avail themselves of the services of the headquarters staff.

THE INSTITUTE OF RADIO ENGINEERS

(Incorporated, August 23, 1913)

CONSTITUTION

Adopted at the First Meeting of The Institute of Radio Engineers, May 13, 1912. Amended, November 2, 1914; December 5, 1915; October 7, 1931; March 1, 1939; November 5, 1941; September 8, 1943; November 29, 1944; May 5, 1945; December 15, 1945; June 27, 1946; July 30, 1946; and August 15, 1947.

ARTICLE I

NAME AND OBJECT

SEC. 1—The name of this organization shall be The Institute of Radio Engineers, Incorporated.

SEC. 2—Its objects shall be scientific, literary, and educational. Its aims shall include the advancement of the theory and practice of radio, and allied branches of engineering and of the related arts and sciences, their application to human needs, and the maintenance of a high professional standing among its members. Among the means to this end shall be the holding of meetings for the reading and discussion of professional papers and the publication of papers, discussions, communications, and such other matters as may be appropriate for the fulfillment of its objects.

ARTICLE II

MEMBERSHIP

SEC. 1—The membership of the Institute shall consist of:

a. Fellows, who shall be entitled to all rights and privileges of the Institute.

b. Senior Members, who shall be entitled to all rights and privileges of the Institute.

c. Special Members, who shall be entitled to all rights and privileges of the Institute except the right to hold the offices of President and Vice President.

d. Members, who shall be entitled to all rights and privileges of the Institute except the right to hold the offices of President, Vice President, and Director.

e. Associates, who shall have such rights and privileges as are provided by the Bylaws. However, Associates who have maintained a continuous membership in this grade since March 1, 1939, shall have the right to vote and shall be entitled to all rights and privileges of the Institute except the right to hold any corporate office, the office of Director, and the chairmanships of standing Committees and of Sections.

f. Students, who shall have such rights and privileges as are provided by the Bylaws.

SEC. 2—The qualifications for the various grades of membership shall be specified in the Bylaws in accordance with the following principles:

a. Fellow is a grade of unusual professional distinction and shall be conferred only by invitation of the Board of Directors.

b. Senior Member is the highest professional grade for which application may be made and shall require experience or attainment reflecting professional maturity.

c. Special Member is a grade limited to those who have shown an interest in furthering the radio or allied arts and sciences and who have attained such position or prestige that by membership they shall advance the objectives of the Institute. This grade shall be conferred only by invitation of the Board of Directors.

d. Member is a professional grade limited to those who have demonstrated professional competence in radio or allied fields.

e. Associate grade shall be open to those interested in the theory or practice of radio engineering or the allied arts and sciences.

f. Student grade shall be open to those devoting a major part of their time as registered students in a regular course of study in engineering or science in a school of appropriate standing. Membership in this grade may extend a limited time after termination of student status.

SEC. 3—The requirements for admissions, transfers, and severance of members shall be specified in the Bylaws.

SEC. 4—The term "allied" as used in this Constitution and Bylaws refers to electrical communication, electronics, and such other technical fields as are directly contributory to, or derived from radio.

SEC. 5—The terms "member" and "membership" when printed without an initial capital where used in this Constitution and Bylaws include all grades.

SEC. 6—The term "voting member" where used in this Constitution and Bylaws means a member entitled to vote on Institute matters.

ARTICLE III

DUES AND FEES

SEC. 1—Dues and fees shall be specified in the Bylaws.

SEC. 2—Under exceptional circumstances, the payment of fees and dues may be deferred or waived in whole or in part by the Board of Directors.

ARTICLE IV

OFFICERS AND DIRECTORS

SEC. 1—The governing body of the Institute shall be the Board of Directors and shall consist of the President, Vice President, Secretary, Treasurer, Editor, six Directors elected-at-large, three appointed Directors, one Regional Director elected by each Region, and the two most recent past Presidents.

SEC. 2—The Corporate Officers of the Institute shall be the President, Vice-President, Secretary, Treasurer, and Editor.

SEC. 3—The terms of office for Directors elected-at-large shall be for three years; for appointed Directors, one year; for Regional Directors, two years; and for all Corporate Officers, one year, except as provided in Article VI, Section 1.

SEC. 4—Each year of a term of office established in Article IV shall begin with the assembly of the Board of Directors at its annual meeting and terminate with the assembly of the Board of Directors at its following annual meeting.

SEC. 5—No Corporate Officer or Director shall receive, directly or indirectly, any salary, traveling expenses, compensation, or emolument from the Institute, unless authorized by the Board of Directors or by the Bylaws.

SEC. 6—The United States and Canada, and other areas at the discretion of the Board of Directors, shall be divided into Regions, which shall be specified in the Bylaws. The Board of Directors shall delineate the Regions, make changes in the number of Regions, as it deems desirable, and number the Regions with consecutive numbers. The voting members of each Region shall elect one representative who shall thereby become a member of the Board of Directors and be designated a Regional Director.

ARTICLE V

MANAGEMENT

SEC. 1—The President shall be the regular presiding officer at meetings of the Board of Directors and at meetings of the Institute. He shall be an ex officio member of each committee.

The Vice-President shall assume the duties of the President in the absence or incapacity of the President.

In the event that neither the President nor the Vice-President can personally act, the Board of Directors may elect a chairman

from its membership who is authorized to perform the presidential duties during the period of the incapacity of the President and Vice-President. The tenure of such temporary chairman shall be at the discretion of the Board of Directors.

SEC. 2—The Board of Directors shall manage the affairs of the Institute. An annual report on the activities and finances of the Institute shall be made to the members.

Eight members of the Board of Directors shall constitute a quorum.

SEC. 3—The Board of Directors may make, amend, or revoke Bylaws to this Constitution. The proposed changes and reasons therefor shall be mailed to all members of the Board at least twenty days before the stipulated meeting at which the vote shall be taken. Two thirds of all votes cast at the stipulated meeting shall be required to approve any new Bylaw, amendment, or revocation.

SEC. 4—The Secretary shall be responsible for the preparation for all meetings of the Board of Directors and all principal meetings of the Institute and the recording of the minutes of such meetings. He shall be responsible for the correspondence of the Institute and the keeping of full records thereof, and shall be responsible for the provision of such information from them as is requested by the Board of Directors.

SEC. 5—The Treasurer, under the control of the Board of Directors, shall have general supervision of the fiscal affairs of the Institute and shall be responsible for the keeping of the books of account. An annual audit of the affairs of the Institute shall be made by certified public accountants and submitted to the Board.

SEC. 6—All funds received by the Institute shall be deposited in an account requiring the signatures of at least two of the following for withdrawal: President, Vice-President, Secretary, Treasurer, and Editor. Funds from this account may be deposited in other accounts authorized and limited in size by the Board of Directors. Funds from these accounts shall be withdrawable on the signatures of authorized bonded individuals for current disbursements. Before additional funds are transferred from the first-mentioned account to another account, the individuals responsible for such other accounts shall submit a statement of the disposition of the previously expended funds to the Treasurer.

SEC. 7—All committees shall be appointed by the Board of Directors or in such manner as the Board may designate.

SEC. 8—The fiscal year of the Institute shall end with the thirty-first day of December.

ARTICLE VI

NOMINATION, ELECTION, AND APPOINTMENT OF OFFICERS AND DIRECTORS

SEC. 1—On or before July first of each year, the Board of Directors shall submit to qualified voters a list of nominations containing at least one name each for the offices of President and Vice President, at least four names for the office of Director elected-at-large, the names of all nominees for the office of Regional Director, and shall entertain nominations by petition for all of the offices specified.

Nominations by petition may be made by letter to the Board of Directors setting forth the name of the proposed candidate and the office for which it is desired he be nominated. For acceptance a letter of petition must reach the Institute office before twelve o'clock noon on the last weekday prior to August fifteenth of any year and shall be signed by at least one hundred voting members qualified to vote for the office of the candidate nominated.

Each proposed nominee shall be consulted and if he so requests his name shall be withdrawn. The names of proposed nominees who are not eligible under the Constitution, shall be withdrawn by the Board.

On or before September first, the Board of Directors shall submit to all voting members as of August fifteenth, a list of nominees for the offices of President, Vice-President, and Director elected-at-large, and shall submit to all such voting members of each Region a list of their nominees for the office of Regional Director, the names of the nominees for each office being arranged in alphabetical order. The ballots shall carry a statement to the effect that the order of the names is alphabetical for convenience only and indicates no preference.

Voting members shall vote for the candidates whose names appear on the list of nominees, by written ballots in plain sealed envelopes, enclosed within mailing envelopes marked "Ballot" and bearing the member's written signature. No ballots within unsigned outer envelopes shall be counted. No votes by proxy shall be counted. Only ballots arriving at the Institute office before twelve o'clock noon on the last weekday prior to October twenty-fifth shall be counted. Ballots shall be checked, opened, and counted under the supervision of the Tellers Committee between October twenty-fifth and the first Wednesday in November. The result of the count shall be reported to the Board of Directors at its next succeeding meeting and the nominees for President and Vice-President, the two nominees for Director elected-at-large, and the nominees for each office of Regional Director receiving the greatest number of qualified votes shall be declared elected. In the event of a tie vote the Board shall choose between the nominees involved.

Nominees for the office of Regional Director shall be members of and live in the Regions which nominate them. They shall be elected by the voting members of the Institute in the Region. The Regional Directors from even- and odd-numbered Regions shall be chosen by the Regions in even- and odd-numbered years, respectively. In placing the Regional Representation Plan into operation, or when new Regions are established, or when changes are made in Regions, candidates for the office of Regional Director may be nominated and elected for one-year terms as required to ensure representation during the period preceding their normal election years. No Regional Director shall have his term shortened by changes in Regions. Each Region shall have a Regional Committee whose duties shall include making at least one nomination for Regional Director from its Region during election years. In the event a Regional Director dies, is unable to serve, or is disqualified by removal from the Region, the Regional Committee shall appoint a Regional Director for the unexpired portion of the term. The organization and procedure of the Regional Committees for nominating candidates for Regional Director shall be specified in the Bylaws.

SEC. 2—The Secretary, Treasurer, Editor, and three appointed Directors shall be appointed by the Board of Directors at its annual meeting to serve until the next annual meeting or until their successors are appointed and accept.

SEC. 3—The Board of Directors is authorized to fill a vacancy other than Regional Director occurring in the governing body.

ARTICLE VII

MEETINGS

SEC. 1—There shall be an annual meeting of the Board of Directors during January of each year at which newly elected officers shall begin their terms of service, and the Board shall make necessary appointments.

SEC. 2—There shall be an annual meeting of the Institute as soon as practicable after the annual meeting of the Board of Directors at which reports of the Secretary and Treasurer shall be presented.

SEC. 3—Meetings of the Board may be held at such times as are necessary to carry out the provisions of this Constitution and shall be held at such other times as any five members of the Board may determine, but only on notice to all members of the Board. The method of calling such special meeting shall be specified in the Bylaws.

ARTICLE VIII

SECTIONS AND OTHER GROUPS

SEC. 1—The Board of Directors may authorize the establishment of sections and other groups of members for the purpose of promoting the interests of the Institute. The Board of Directors may, at its discretion, terminate the existence of any such group.

ARTICLE IX

AMENDMENTS

SEC. 1—Amendments to this Constitution may be proposed by means of a resolution adopted by the Board of Directors or by means of a petition signed by at least one hundred voting members. Such proposed amendment or amendments shall be submitted to legal counsel by the Board of Directors, and if, in the opinion of such counsel, they are in accordance with the laws under which the Institute is organized, a copy shall be mailed with a ballot to each voting member.

SEC. 2—Constitutional amendment ballots shall be mailed to the voting members at least sixty days before the date appointed for counting the ballots and the ballots shall carry a statement of the time limit for their return to the Institute office. The ballots after marking shall be placed in plain sealed envelopes, enclosed within mailing envelopes marked "Ballot" and bearing the member's written signature. Only ballots within signed outer envelopes shall be counted. No votes by proxy shall be counted. Only ballots arriving at the Institute office prior to the stated time limit shall be counted. The Tellers Committee shall count such votes and report to the Board of Directors at its next meeting. If the total vote be at least twenty per cent of the total voting membership and if at least sixty-seven per cent of all votes cast shall be favorable, the proposed amendment or amendments shall be immediately declared by the Tellers Committee to be adopted.

SEC. 3—Amendments shall take effect thirty days after their adoption, but officers and officers-elect of the Institute at the time any amendment becomes effective shall continue in office until the end of the terms for which they were elected.

SEC. 4—Copies of the amendments shall be distributed to the members as soon as practicable after adoption.

SEC. 5—A complete history of amendments shall be kept in the files of the Institute.

BYLAWS

As of September 10, 1947

Article V, Section 3, of the Institute Constitution provides for Bylaws as follows:

"The Board of Directors may make, amend, or revoke Bylaws to this Constitution. The proposed changes and reasons therefor shall be mailed to all members of the Board at least twenty days before the stipulated meeting at which the vote shall be taken. Two thirds of all votes cast at the stipulated meeting shall be required to approve any new Bylaw, amendment, or revocation."

MEMBERSHIP QUALIFICATIONS

SEC. 1—Fellow: The grade of Fellow shall be conferred only upon a person who is at least thirty-two years of age and who is:

a. An engineer or scientist in radio or allied fields. As such he shall have attained distinction in his profession and shall be eminently qualified to take responsible charge of important radio or allied work. He shall have been in the active practice of his profession for at least ten years, and shall have had responsible charge of important radio or allied work for at least three years, or

b. A professor of engineering or of physical science. As such he shall have attained special distinction as an expounder of the principles of engineering or of science in radio or allied fields. He shall have had at least ten years' experience as a teacher of electrical or physical subjects and shall have had responsible charge, for at least three years, of a course in radio or allied subjects in a school of recognized standing, or

c. A person who has done notable original work contributing to the advancement of engineering or science in radio or allied fields, which has given him a recognized standing at least equivalent to that required for Fellow under paragraph "a" or "b," or

d. A person regularly engaged in radio or allied work for at least ten years, who, by invention or contribution to the advancement of engineering or science in radio or allied fields, or to the technical literature thereof, has attained a standing at least equivalent to that required for Fellow under paragraph "a" or "b."

SEC. 2—Senior Member: For admission or transfer to the grade of Senior Member, a candidate shall be at least twenty-eight years of age and shall be:

a. An engineer or scientist in radio or allied fields. As such he shall have been in the active practice of his profession for at least eight years, and shall have performed or taken responsibility for important engineering or scientific work in these fields for at least three of these years, or

b. A teacher of radio or allied subjects for at least eight years of a school of recognizing standing. As such he shall have been in responsible charge of a major course in such subjects for at least three years, or

c. A person regularly employed in radio or allied fields for at least eight years, who, by invention or by contribution to the advancement of engineering or science in radio or allied fields, or to the technical literature thereof, has attained a standing equivalent to that required for Senior Member under paragraph "a," or

d. An executive who, for at least eight years, has had under his direction important engineering or research work in radio or allied fields and who is qualified for direct supervision of the technical or scientific features of such activities.

e. A person regularly employed in radio or allied technical work for at least sixteen years, who, by experience and education, has attained a standing equivalent to that required for Senior Member under paragraph "a" and shall have performed or taken responsibility for important technical work in these fields for at least six years.

SEC. 2A—Special Member: The grade of Special Member shall be conferred only upon a person who is at least thirty-two years of age and who meets the requirements of the grade set forth in the Constitution. Proposals for election to the grade, together with supporting information, may be presented by a member of the Board of Directors at any meeting of the Board. After full consideration at a Board meeting, the proposal, unless withdrawn, shall be placed on the agenda for action at the next Board meeting. A favorable vote of at least two thirds of the members of the Board present shall be required for election.

SEC. 3—Member: For admission or transfer to the grade of Member, a candidate shall be at least twenty-four years of age and shall be either:

a. An engineer or scientist in radio or allied fields. As such he shall have demonstrated competence in engineering or scientific work of a professional character and shall have been in active practice of his profession for at least three years, or

b. A teacher of radio or allied subjects for at least three years. As such he shall have attained a professional standing equivalent to that required for Member under paragraph "a," or

c. A person regularly employed in radio or allied work for at least three years, who, by invention or by contribution to the advancement of engineering or science in radio or allied fields, or to the technical literature thereof, has attained a standing equivalent to that required for Member under paragraph "a," or

d. An executive who, for at least six years, has had under his direction important technical, engineering, or research work in radio or allied fields, or

e. A person regularly employed in radio or allied technical work for at least six years, who, by experience and education, has attained a standing equivalent to that required for Member under paragraph "a."

SEC. 4—Associate: For admission or transfer to the grade of Associate, a candidate shall be at least eighteen years of age and shall be interested in the theory or practice of radio engineering or of the allied arts and sciences.

SEC. 5—Student: For admission to the grade of Student, a candidate shall be devoting a major portion of his time as a registered student in a regular course of study in engineering or science in a school of recognized standing. Membership in this grade shall not extend more than one and one-half years beyond the termination of his student status as described above.

SEC. 6—The expression, "school of recognized standing," includes only accredited schools of college grade, as listed in the Educational Directory, Colleges and Universities, Federal Security Agency, Office of Education, providing an engineering or scientific curriculum of not less than four years and granting degrees, and such other schools as may be so designated by the Board of Directors.

SEC. 7—Graduation from a radio or allied curriculum in an accredited professional school shall be accepted as equivalent to two years' experience in radio or allied fields.

Graduation from a radio, arts and sciences, or equivalent curriculum in an accredited nonprofessional school may be accepted as equivalent to two years' experience in radio or allied fields.

Graduation from an unaccredited radio or allied curriculum in a professional accredited school may be accepted as equivalent to one year's experience in radio or allied fields.

Full-time graduate work, or part-time graduate work with teaching, in a radio or allied course in a school of recognized standing may be accepted as equivalent to professional experience.

SEC. 8—The time requirements for admission or transfer to any grade of membership may be satisfied by applying pro rata the experience of the candidate under the various alternative requirements for that grade.

SEC. 8A—Subject to the provisions of the Constitution and prior to March 1, 1948, the qualifications for election of candidates to membership in the Institute shall be considered as satisfied if they meet the Constitution in effect prior to August 15, 1947, or the Bylaws in effect on the date of election. After March 1, 1948, the qualifications must meet the Bylaws in effect on the date of election.

SEC. 9—Members are authorized to assert Institute affiliation. In doing so, they should indicate their grade of membership and, if necessary, use the following abbreviations: Fellow—Fellow I.R.E.; Senior Member—Sen. Mem. I.R.E.; Special Member—Spec. Mem. I.R.E.; Member—Mem. I.R.E.; Associate—Assoc. I.R.E.

SEC. 10—The emblem of the Institute is copyrighted and shall be reproduced only in connection with official business of the Institute.

MEMBERSHIP APPLICATIONS

SEC. 11—Applicants for membership shall furnish names of references as follows: For Senior Member—five Fellows or Senior Members; for Member—four Fellows, Senior Members, or Members; for Associate—three Fellows, Senior Members, Members, Associates, or other responsible individuals; for Student—a member of the faculty of his school.

SEC. 12—When the work or location of an applicant for Senior Member of Member grade is such as to make impracticable compliance with Section 11, the Admissions Committee may waive that section upon obtaining other suitable references.

SEC. 13—Applications for admission or transfer to any grade of membership, except Fellow or Special Member, shall be addressed to the Board of Directors and submitted to the Institute office. Election or transfer of an applicant to any grade, except Fellow or Special Member, shall be made by a two-thirds affirmative vote of the Board membership voting, or a two-thirds affirmative vote of a committee of Board members duly authorized in the Bylaws to act for the Board in electing members or transferring their membership grades.

SEC. 14—The Executive Committee is authorized to act for the Board of Directors in electing members or transferring their membership grades in the case of all except Fellow and Special Member grades. The Executive Committee shall handle re-admissions on the basis or policies established by the Board of Directors.

SEC. 15—A reapplication for admission or transfer to a particular grade may be made by the applicant after the expiration of one year from the date of a rejection.

MEMBERSHIP PROPOSALS

SEC. 16—Admission or transfer to Fellow or Special Member grade shall be by invitation by the Board of Directors only.

SEC. 17—Each year, the Awards Committee shall recommend to the Board of Directors nominees for Fellow grade. A citation summarizing the accomplishments of the nominee shall be a part of each recommendation.

SEC. 18—Diplomas shall be presented to the newly elected Fellows. If practicable, this presentation shall be made by the President at the next annual Convention.

SEC. 19—Before the election of any candidate to the grade of Special Member, the Board of Directors shall refer the proposal to the Public Relations Committee for study. The Public Relations Committee shall make its recommendations, with respect to each name so referred, directly to the Board of Directors.

SEC. 20—Admission or transfer to any grade except Fellow or Special Member may be proposed by any member acting as sponsor, or by the Membership Committee, by supplying to the Admissions Committee sufficient information and testimonials from the required number of references to satisfy the Admissions Committee as to qualifications. Such proposals shall be acted upon by the Admissions Committee, and if approved, transmitted to the Executive Committee for their action. If approved by the Executive Committee, an Invitation Blank shall be sent to the proposed member inviting him to accept the grade of membership proposed, which membership grade shall become effective automatically and immediately upon his supplying the biographical and professional information required, and paying the necessary dues and fees. The name of an invitee shall be placed on the mailing list for the PROCEEDINGS immediately upon receipt of dues and fees. The proposal and invitation blanks shall be drawn up by the Membership Committee so as to avoid unconstitutional action due to the sponsor supplying incorrect information.

SEC. 21—The Membership Committee may recommend for transfer to higher grade those members who they think are qualified.

ADMISSIONS AND TRANSFERS

SEC. 22—The entrance fee for all grades shall be three dollars ($3) except that there shall be no entrance fee for Student grade.

SEC. 23—There shall be no transfer fees. A member whose grade of membership is changed during his annual dues period shall be billed pro rata for the remainder of that period.

SEC. 24—The name of every newly admitted or transferred Senior Member, Special Member, Member, or Associate shall be published in the PROCEEDINGS.

SEC. 25—When an applicant for membership is elected, the membership period shall be dated as of the first day of the month following election.

SEC. 26—The entrance fee and dues are payable on notification of election, and, if not received within six months from notification, the election shall be considered void.

SEC. 27—A notice of his election shall be sent to every newly admitted member together with a bill for his entrance fee and dues, if not previously paid, dues being computed for the annual period beginning with the first day of the month following his election. His entrance fee or dues remaining unpaid, additional bills shall be sent the newly elected member 60 days and 120 days after notification of his election, in the last instance accompanied by a warning that his election will be considered void if his entrance fee and dues are not received within six months of his notification of election.

The names of all individuals elected to membership who fail to pay entrance fees or dues within six months of notification of election, shall be turned over to the Membership Committee.

ANNUAL DUES

SEC. 28—Every member's annual dues period and the period during which he shall receive publications of the Institute shall run concurrently with his membership period. The annual dues shall be payable in advance at the beginning of the annual dues period.

SEC. 29—For annual dues periods beginning in 1947, the annual dues for all grades shall be ten dollars ($10), except for Student which shall be three ($3), and except for Associate which shall be seven dollars ($7) for each year that is within the first five years of membership in any grade or grades other than Student.

For annual dues periods beginning January 1, 1948, or thereafter, the annual dues for all grades shall be fifteen dollars ($15), except for Student which shall be three dollars ($3), and except

for Associate which shall be ten dollars ($10) for each year which is within the first five years of membership in any grade or grades other than Student. Beginning with the sixth such year, the annual Associate dues shall be fifteen dollars ($15).

SEC. 30—The Board, by this Bylaw, waives the dues of each and every member of the Institute who has attained the age of 65 years and has been a member of the Institute for 35 years.

BILLING

SEC. 31—A bill covering his dues for the following year shall be mailed to every member not later than one month prior to the beginning of his annual dues period. A second bill shall be mailed after a lapse of two months to every member whose dues remain unpaid. There shall be mailed with the second bill a notice that, if the member's dues remain unpaid for four months, it shall be the duty of the Executive Secretary, in accordance with the Bylaws of the Institute, to notify the member that his membership has terminated.

After a member has been in arrears four months, his membership shall terminate and his name shall be removed from the roll of membership. Every such member shall be mailed a notice to the effect that, according to the Bylaws of the Institute, his membership in the Institute has in fact terminated. Accompanying the notice of termination shall be a final bill, with the suggestion that the member pay the bill and resume his membership. A list of terminated memberships shall be turned over each month to the Membership Committee.

Membership so terminated may be resumed on payment of all dues in arrears, or on payment of a new entrance fee and current dues.

SEC. 32—For purposes of Article II, Section 1-e, of the Constitution, resumption of membership as provided under Bylaws Sections 31 and 36, shall not constitute maintenance of continuous membership.

SEC. 33—The mailing of bills or statements to the last known address of a member shall be considered a valid notice of indebtedness.

SEC. 34—On resuming membership and paying dues in arrears, a member may receive available copies of the PROCEEDINGS during the period covered by the back dues. A rebate of 25 cents per copy will be made in lieu of copies of the PROCEEDINGS not available.

SEVERANCES

SEC. 35—A member in good standing may resign by submitting a written resignation to the Secretary.

SEC. 36—Subject to the approval of the Board of Directors, a resigned member may resume his membership upon payment of current dues.

SEC. 37—To initiate action toward expulsion of a member, a written complaint must be submitted to the Board of Directors, which, if it deems the reason sufficient, shall notify the accused by letter of the charges against him and of the place and date of the hearing, which shall be at least twenty days away. The accused may present his defense in person, in writing, or by an authorized representative. There shall be a majority of the members of the Board of Directors present at the hearing and the votes cast must be unanimous in order to expel. The action of the Board of Directors shall be final and conclusive.

SEC. 38—The Secretary shall, as soon as possible after the end of each year, present to the Board of Directors a report giving the number of members of each grade at the close of the year, and the gains and losses in each grade of membership during the year as a result of elections, transfer, reinstatements, debts, resignations, failure to pay dues, and all other causes. This report shall also give the number of newly-elected members whose elections become void during the year through the failure to pay entrance fee and initial dues, and the number of newly-elected members who at the end of the year have not yet paid entrance fee and initial dues but whose election is still effective as of that date.

BOARD OF DIRECTORS

SEC. 39—The annual meeting of the Board of Directors required by the Constitution to be held during January of each year, shall be held in the office of the Institute in New York, N. Y. Scheduled meetings of the Board shall be held on the first Wednesday of May and of November, the place to be determined by the Board at the annual meeting in January, subject to change as provided for in Sec. 40 of the Bylaws. At the annual meeting, the Board shall determine the time and place of other scheduled meetings to be held throughout the year, subject to change as provided in Sec. 40 of the Bylaws.

SEC. 40—The time or place of any scheduled Board meeting may be altered or the meeting canceled only by consent of a majority of all Board members not less than twenty days before the original date or the new date set for the meeting, whichever is the earlier. Notice of such approved change shall be given all Board members by mailing notice not less than ten days before the original or the new date, whichever is the earlier.

SEC. 41—As provided in the Constitution, special meetings of the Board of Directors may be called by any five members of the Board on notice to all other members. Notice of such special meeting, giving the time and place of meeting, the purpose of the meeting, and the names of the Board members calling the meeting shall be mailed to all Board members not less than twenty days before the date set for the special meeting. The place of such special meetings may be only the Institute office in New York, N. Y., unless otherwise authorized by a majority vote of all Board members.

EXECUTIVE COMMITT

SEC. 42—The Board of Directors, in managing the affairs of the Institute according to the Constitution, shall appoint a committee of Officers and members of the Board of Directors called the Executive Committee, to exercise powers and assume duties of executive management, to the extent that the Board of Directors directs, and as outlined in Bylaws, subject to the following limitations: that the Board may, by a majority vote of those present at any meeting, overrule any act or decision of the Executive Committee, except insofar as any act has in fact been carried out, or suspend at any meeting any power conferred upon the Executive Committee, such suspension to remain in effect pending repeal of the Bylaw conferring such power, or direct any action or plan of the Executive Committee.

SEC. 43—The President, the Secretary, the Treasurer, the Editor, and at least two other members of the Board of Directors shall comprise the Executive Committee. The President shall be Chairman, the Treasurer shall be Vice-Chairman, and the Secretary shall be Secretary of the Executive Committee. The terms of appointments of all members of the Executive Committee, except the President, shall start with the first meeting of the Committee after appointment and shall continue notwithstanding any change in status on the Board until the first meeting of the succeeding Executive Committee.

SEC. 44—The Executive Committee shall appoint, direct, and co-ordinate the work of all standing committees except the Appointments, Awards, Constitution and Laws, Executive, Nominations, and Tellers Committees.

SEC. 45—The Executive Committee shall prepare, and present an annual budget to the Board of Directors for approval.

SEC. 46—The Executive Committee shall be responsible for the management of the office of the Institute, which shall include special activities, technical activities, office operations, accounting, advertising, and publications, and the setting of salaries (with the exception of Officers' salaries) in all instances in the limits of the budget. Such activities as the Executive Committee shall direct shall be administered by the Executive Secretary. The salary of the Executive Secretary shall be determined by the Executive Committee.

SEC. 47—The Executive Committee shall set dates and locations of conventions, conferences, and meetings of the Institute and shall manage them.

SEC. 48—The Executive Committee shall supervise the formation and operation of Sections and other groups of members and propose their approval to the Board of Directors.

SEC. 49—The Executive Committee shall direct and manage Institute standardization activities including relations with other organizations.

SEC. 50—The Executive Committee may divide its duties and responsibilities among its members as it sees fit and conduct its busi-

ness as it finds necessary, and shall formulate a "Code of Administrative Practice."

SEC. 51—Minutes of the meetings of the Executive Committee shall be mailed to the members of the Board of Directors.

SEC. 52—In addition to its other duties, the Executive Committee is charged with broadly considering Institute policies, and making appropriate recommendations to the Board of Directors on its own initiative.

NOMINATIONS

SEC. 53—The Secretary shall circularize all Section chairmen and secretaries before March first of each year requesting the submission of suitable names to be considered by the Nominations Committee for the various elective offices.

SEC. 54—The Nominations Committee shall submit more than one name for each elective office.

SEC. 55—The Nominations Committee shall transmit its list of proposed nominees to members of the Board of Directors at least one week before the date at which the Board is expected to act upon them.

SEC. 56—When the Board of Directors has not scheduled a meeting to be held between August 14 and September 1 of each year, the Executive Committee is authorized to take any necessary actions on any petitions and to approve the ballot.

REGIONS

SEC. 57—The United States and Canada shall be divided into Regions, as follows: (1) North Atlantic, (2) North Central Atlantic, (3) Central Atlantic, (4) East Central, (5) Central, (6) Southern, (7) Pacific, (8) Canadian.

Regions which fail to maintain reasonable activity may, at the discretion of the Board of Directors, be dissolved and the Sections may be absorbed into other Regions.

SEC. 58—The Regional Committee of each Region normally shall consist of the Regional Director, the junior past Regional Director, and the chairman and junior past chairman of each Section in the Region. In addition to the duties specified in the Constitution, the Regional Committee shall be expected to participate in the development of the Institute by means of suggestions, on national matters, to the Board of Directors, and on Regional and Sectional matters, to the Sections comprising the Region. Each member of the Regional Committee shall be, ex-officio, a member of the Executive Committee of his own Section.

SEC. 59—Pending installation of the first Regional Director of each Region, the chairman of the largest Section numerically in the Region shall act as chairman pro tem, and the chairman pro tem shall appoint a secretary-treasurer pro tem who shall act until the secretary-treasurer of the Regional Committee is appointed.

The Regional Director shall be chairman of the Regional Committee and shall appoint a vice-chairman from the membership of the committee. The chairman of the Regional Committee shall appoint a secretary-treasurer from members of the Region for a two year term concurrent with that of the chairman. The duties of the secretary-treasurer shall include correspondence, the keeping of the minutes of the committee meetings, mailing notices, handling of funds, the keeping of financial records and the submission of a report at the end of each year, and such other duties as are assigned to him by the chairman. The secretary-treasurer shall not be a voting member of the committee.

SEC. 60—Each Regional Committee shall submit to the Board of Directors by May first of the Regional election year, the names of at least one qualified nominee for the office of Regional Director. To qualify, each candidate shall indicate to the Regional Committee his acceptance of the nomination.

SEC. 61—Each member of the Regional Committee shall be of Member, Special Member, Senior Member, or Fellow grade in the Institute. Vacancies, except for Regional Director, shall be filled by appointment by the Executive Committee of the Section in which the vacancy exists. The term of office shall be one year concurrent with the term of office of the Section officers.

SEC. 62—The Regional Committee shall hold at least one meeting per year at which a quorum shall be necessary for the transaction of business of the Committee. A quorum shall consist of at least one third of the members of the Committee and shall include representatives from at least half the Sections in the Region. The Chairman, or in the event of his unavailability, the vice chairman of the Regional Committee, shall be responsible for calling the necessary number of Regional Committee meetings.

SECTIONS

SEC. 63—All Sections authorized by the Board of Directors shall accept and conform to a Constitution provided by the Board of Directors.

SEC. 64—No Section shall have any authority to contract debts for, pledge the credit of, or in any way bind, the Institute.

SEC. 65—Section Secretaries shall forward to the Secretary of the Institute a report of each meeting held by the Section for the presentation or discussion of papers, and at the end of each fiscal year, a financial statement for that fiscal year.

SEC. 66—Local noncompulsory financial contributions may be accepted by Sections.

SEC. 67—All Sections shall be exclusively those of the Institute. No joint Section shall be recognized. However, Sections of the Institute may co-operate with other organizations in the holding of joint meetings and may invite members of such organizations and the public to their meetings.

SEC. 68—A petition for the formation of a Section shall be signed by not fewer than twenty-five (25) members, other than Students, with mailing addresses within the territorial limits proposed in the petition.

SEC. 69—Failure of a Section to maintain the required activities which shall include the holding of at least five meetings each year and also the maintenance of a minimum membership of twenty-five (25) members, other than Students, shall place the Section on probation. All members of the Section shall be informed of the probation by the Secretary of the Institute, who shall also call to their attention the requirements for maintaining the Section.

If the delinquency continues for a second year, a second notification to the Section membership shall be made by the Institute Secretary, and the Board of Directors shall be informed of the probationary status of the Section.

If the delinquency continues for a third year, the Section shall, thereupon, automatically be dissolved. The Secretary shall so report to the Board of Directors and so inform the Section membership.

The Board of Directors is authorized to waive, in whole or in part, the application of this Bylaw for the duration of war and six months thereafter.

SEC. 70—For Section maintenance, the Institute shall pay to each Section for each calendar year the following sums:

One dollar ($1) for each member, except Students, up to and including seven hundred, and one dollar and fifteen cents ($1.15) for each member, except Students, over seven hundred, with mailing addresses within the territory of the Section, on December thirty-first of the calendar year for which payment is made, plus ten dollars ($10) per meeting for not more than ten meetings of the Section within the Calendar year.

STUDENT BRANCHES

SEC. 71—Upon receipt of a petition signed by a representative of the faculty and by not fewer than fifteen (15) Student members in a school of recognized standing, the Board of Directors may authorize the establishment of a Student Branch in that school.

SEC. 72—Each Student Branch shall adopt and conform to a Constitution which shall have been submitted to, and approved by, the Board of Directors.

SEC. 73—Student Branches may co-ordinate and combine their activities and organizations with the local organization of other engineering and scientific societies, but among the officers of such joint organizations there shall be at least a corresponding secretary who shall be a member of the local Student Branch of the Institute.

SEC. 74—No Student Branch shall have any authority to contract debts for, pledge the credit of, or in any way bind, the Institute.

SEC. 75—Student Branch corresponding secretaries shall forward to the Secretary of the Institute a report of each meeting held by the Student Branch for the presentation or discussion of papers, and during June of each year, a financial statement for the preceding year.

SEC. 76—Local noncompulsory financial contributions may be accepted by Student Branches.

SEC. 77—Failure of a Student Branch to maintain a minimum of ten (10) members and to hold at least three (3) meetings each year shall place the Student Branch on probation. All members of the Student Branch shall be informed of the probation by the Secretary of the Institute, who shall also call to their attention the requirements for maintaining the Student Branch. If the delinquency continues for a second year, the Student Branch shall automatically be dissolved. The Secretary shall so report to the Board of Directors and so inform the Student Branch membership.

SEC. 78—For Student Branch maintenance, upon certification by the Institute Representative, or, in the event one has not been appointed, by the representative of the faculty, expenses of the Student Branch up to and including a maximum of fifteen dollars ($15) for any one school year shall be defrayed by the Institute.

SEC. 79—The Board of Directors may dissolve a Student Branch because of improper conduct, or for any other reason deemed sufficient by the Board of Directors.

COMMITTEES AND REPRESENTATIVES

SEC. 80—The Standing Committees, each of which shall normally consist of five or more persons, shall include the following:

Admissions
Appointments
Awards
Board of Editors
Constitution and Laws
Education
Executive Committee of the Board of Directors
Membership
Nominations
Papers Procurement
Papers Review
Public Relations
Sections
Tellers
Annual Review
Antennas
Audio and Video Techniques
Circuits
Electroacoustics
Electron Tubes
Electronic Computers
Facsimile
Industrial Electronics
Modulation Systems
Navigation Aids
Nuclear Studies
Piezoelectric Crystals
Radio Receivers
Radio Transmitters
Railroad and Vehicular Communication
Research
Standards
Symbols
Television
Wave Propagation

On matters which are reasonably described by the committee names, these committees or boards shall be advisory to the Board of Directors, or the Executive Committee, whichever appoints them and directs their activities. Each committee or board shall have the power to create subcommittees of its own selection.

SEC. 81—The terms of appointments of the Admissions, Awards, Board of Editors, Constitution and Laws, Education, Membership, Nominations, Papers Review, Papers Procurement, Public Relations, Sections, and Tellers Committees shall start with the first day of the month following appointment and continue until the date the succeeding terms of appointments take effect. The Board may specifically advance or delay the terminating date of any committee and the starting date of a succeeding committee. Appointments shall be made to the following committees: Annual Review, Antennas, Audio and Video Techniques, Circuits, Electroacoustics, Electron Tubes, Electronic Computers, Facsimile, Industrial Electronics, Modulation Systems, Navigation Aids, Nuclear Studies, Piezoelectric Crystals, Radio Receivers, Radio Transmitters, Railroad and Vehicular Communication, Research, Standards, Symbols, Television, and Wave Propagation, each year between January first and May first, and the terms of appointment shall be from May first of the year when the appointments are made until April thirtieth of the following year. Additional appointments may be made to fill vacancies or to care for special cases as the need arises, with the term of the appointment expiring April thirtieth.

SEC. 82—The Membership Committee shall include the Chairman of the Membership Committee of each Section, ex-officio.

SEC. 83—The Sections Committee shall include the Chairman of each Section, ex-officio.

SEC. 84—The Appointments Committee shall be appointed by the Board of Directors at its regular November meeting. Its membership shall be chosen from the continuing and newly-elected members of the Board of Directors. At least fourteen days before the next annual meeting of the Board of Directors, the Appointments Committee shall mail to the members of the new Board of Directors, a list of candidates for the offices of Secretary, Treasurer, Editor, and Appointed Directors, and Chairmen and members of the Awards, Constitution and Laws, Executive, Nominations, and Tellers Committees.

SEC. 85—The Treasurer shall make a report to the Executive Committee semi-annually at the September and March Executive Committee meetings concerning the status of the Institute's investments. The Treasurer, before making changes in the Institute's portfolios, shall report the proposed changes to the Executive Committee and obtain its approval.

SEC. 86—The President is authorized to appoint teachers of science or engineering who are Institute members as Institute Representatives. Each such Institute Representative is charged with promoting the welfare of the Institute at his school, particularly in matters relating to Student membership.

SEC. 87—The Board of Directors may appoint or direct the appointment of representatives of the Institute on joint committees, boards, and other local, national, and international bodies.

PUBLICATIONS

SEC. 88—The Institute shall publish a periodical under the title, PROCEEDINGS OF THE I.R.E. The Board of Directors may establish additional publications either periodical or otherwise in character.

SEC. 89—The Executive Secretary is authorized to accept orders for annual subscriptions to, or individual copies of, the PROCEEDINGS at the following rates, including postage:

Annual Subscriptions

	U. S. and Canada	*Other Countries*
Individual nonmembers	$18.00	$19.00
Public Libraries	13.50	14.50
Colleges	13.50	14.50
Subscription Agencies	13.50	14.50
Institute members, additional subscriptions	9.00	10.00

Individual Copies

Individual nonmembers	2.25	2.35
Public Libraries	1.65	1.75
Colleges	1.65	1.75
Subscription Agencies	1.65	1.75
Institute members, additional copies	1.00	1.10

SEC. 90—The price of a single annual subscription to the PROCEEDINGS for a Fellow, Senior Member, Special Member, Member, or Associate shall be $9.00 to be included in his annual dues.

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(September 10, 1947)

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CONSTITUTION FOR SECTIONS OF THE I.R.E.

ARTICLE I

NAME AND OBJECT

SEC. 1—This organization shall be known as the ..... Section of The Institute of Radio Engineers, Inc.

SEC. 2—The Section shall strive for the advancement of the theory and practice of radio engineering and of the allied arts and sciences, and the maintenance of a high professional standing among its members, all in consonance with the Constitution and Bylaws of the Institute and with special attention to such aims within the territory of the Section as are hereinafter defined.

SEC. 3—The Section shall aid in promoting close co-operation and good fellowship among its members and to this end shall hold meetings for the transaction of the regular business of the Section and for the presentation of papers and their discussion.

ARTICLE II

MEMBERSHIP

SEC. 1—All members of the Institute residing within the territory of the Section are automatically members of this Section. There shall be no other grades of membership.

SEC. 2—All Fellows, Senior Members, and Members of the Institute residing within the territory of the Section shall be entitled to attend the meetings, vote and hold office. Until January 1, 1950, Associates of the Institute residing in the territory of a Section shall be entitled to attend meetings, vote, and hold office except the office of Chairman. After January 1, 1950, members of Associate grade shall not be entitled to vote or hold office.

For a period of three years from the date of the formation of a Section, Associates of the Institute residing within the territory of the Section shall be entitled to attend meetings, vote, and hold office except the office of Chairman.

SEC. 3—Student members of the Institute shall be entitled to attend meetings but shall not have the right to vote or hold office.

ARTICLE III

TERRITORY

SEC. 1—The territory of the Section shall be set by the Board of Directors, and may be enlarged, reduced, or otherwise altered by the Board at any time.

SEC. 2—Whenever within a Section circumstances arise which indicate the need for meetings in different areas, it shall be permissible for the Section to foster and inaugurate one or more subsections locally to carry out the functions of obtaining speakers and holding meetings.

SEC. 3—A subsection may be formed and operated on any plan not inconsistent with the powers of the Executive Committee.

ARTICLE IV

DUES

SEC. 1—There shall be no Section dues.

Sec. 2—The ordinary expenses of the Section shall be defrayed by the funds supplied by the Institute.

SEC. 3—Emergency or extraordinary expenses may be provided for by voluntary contribution from the membership of the Section. A unanimous vote of the Executive Committee is required before such a request may be made.

SEC. 4—The Section may require nonmembers, who wish to be placed on the mailing list for notices, to pay in advance for the estimated cost of such notices.

ARTICLE V

OFFICERS

SEC. 1—The officers of the Section shall be a Chairman, a Vice-Chairman, and a Secretary-Treasurer.

SEC. 2—The terms of office for all officers shall begin at the close of the annual meeting, or as soon thereafter as the election result is determined, and shall end at the close of the next annual meeting, or as soon thereafter as the result of the election of new officers is determined, and in any case continue until their successors are duly elected and take office.

SEC. 3—The terms of office set forth above shall be approximately one year and may exceed this interval only in the case where the date of the annual meeting is being changed and a continuation in office is necessary to effect the new schedule, or no successor has been elected or appointed.

ARTICLE VI

MANAGEMENT

SEC. 1—There shall be an Executive Committee consisting of at least the officers, the junior past chairman, and the chairmen of all the standing committees listed in Section 5 of Article VI.

The chairman may appoint, subject to confirmation by a majority vote of the above members of the Executive Committee, additional members to the Executive Committee from the Section membership.

SEC. 2—The Chairman, responsible to the Executive Committee, shall have general supervision of the affairs of the Section. He shall preside at meetings of the Section and the Executive Committee and have such other powers and perform such other duties as may be provided for in the Bylaws, or as may be delegated to him by vote of the Section. In his absence his duties shall be performed by the Vice-Chairman.

SEC. 3—The Secretary-Treasurer shall receive and deposit all monies in the name of the Section in such depository as shall be determined by the Executive Committee. He shall make only such disbursements as shall be ordered by the Executive Committee.

SEC. 4—The Secretary-Treasurer shall send out notices, prepare the agenda for, and record the Minutes of all meetings of the Section and of the Executive Committee. He shall make such reports of his activities as may be required by the Executive Committee of the Institute.

SEC. 5—The Chairman, as soon as expedient after the annual meeting, shall appoint the following standing committees:

Meetings and Papers Committee
Membership Committee
Publicity Committee

Members appointed shall serve until their successors are appointed or the committee dissolved.

Other committees may be authorized by vote of the Section at any regular meeting, and shall be appointed by the Chairman of the Section.

SEC. 6—The Chairman shall, when notified of the annual meeting of the Committee on Sections, arrange for representation of his Section at such annual meeting by himself or by some member of his Section or he shall forward a letter to the Committee Chairman explaining inability to provide representation and giving the views of his Section on the agenda or proposals before the meeting.

Failure to comply with the above shall be punished by a fine of $10 to be deducted from the rebates to the Section. Sections so remotely located as to make the requirements unusually difficult, may be excused by the Sections Committee from these penalties.

The above penalty shall not be exacted if the Chairman of the Sections Committee shall fail to forward to each Section Chairman and Secretary, at least forty-five days in advance of the date of the annual meeting of the Sections Committee, notice of that meeting and the agenda to be considered thereat.

ARTICLE VII

NOMINATION AND ELECTION OF OFFICERS

SEC. 1—All officers shall be elected at the annual meeting of the Section upon nomination by a nominating committee of three members not then officers of the Section, duly appointed by the Chairman of the Section two months before the annual meeting. These nominations shall be announced in the notice of the Annual meeting. Nominations may also be made from the floor.

SEC. 2—When at an annual meeting there is more than one nominee for any one of the offices of Chairman, Vice-Chairman, or Secretary-Treasurer, the Chairman of the Section may conduct the election at the annual meeting if it is evident that a fair expression of the wishes of the membership can be then determined. As an alternative, he may announce that the results shall be determined by a letter ballot to be taken prior to the next regular meeting of the Section.

SEC. 3—In the event that election of officers is to be determined by letter ballot, the Secretary shall provide promptly to each voting member of the Section a letter ballot with return envelope as used by the Institute and with a return date specified, which shall in no case be later than six weeks after date of the annual meeting.

The Chairman shall call a meeting of the Executive Committee to constitute a tellers committee to count the vote and determine the successful candidate.

The Chairman shall inform the successful candidates of their election and arrange for the transfer of responsibility to the new officers without delay.

SEC. 4—Vacancies in office occurring during the year shall be filled by the Executive Committee for the remainder of the unexpired term unless otherwise provided for.

SEC. 5—If for any reason the best interests of the Section seem to require a change in the governing body during the year, the matter shall be duly and carefully considered by the Executive Committee. Upon not less than two-thirds vote of the Executive Committee, or upon receipt by the Executive Committee of a petition signed by fifteen (15) members of the Section, recommendation shall be made to the Section for action at a special meeting to be duly called by the Executive Committee for the sole purpose of considering and voting upon such a change.

A two-thirds vote of the members present shall be necessary to declare an office vacant. Upon two-thirds vote of the members present the vacant office may be filled for the unexpired term upon nominations from the floor.

ARTICLE VIII

MEETINGS

SEC. 1—The Section shall not hold less than five regular meetings during the year, one of which shall be an annual meeting.

SEC. 2—These meetings shall be held at some specific time in the year as prescribed in the Section Bylaws.

SEC. 3—The fiscal year of the Section shall correspond with the fiscal year of the Institute. (Calendar year).

SEC. 4—At least fifteen members shall be present to constitute a quorum at all meetings of the Section called for the transaction of regular business and requiring a vote to be taken, but a higher number may be set to constitute a quorum, such number to be determined by a Bylaw voted upon by the Section membership.

SEC. 5—A plurality vote of the members present is necessary for the election of officers.

SEC. 6—Meetings of the Executive Committee shall be held at such times as shall be found necessary. Executive Committee meetings may be called by the Chairman of the Section at his own discretion or shall be at the request of three members of the committee.

SEC. 7—A majority of the members of the Executive Committee shall constitute a quorum at all meetings of the Executive Committee, except as otherwise provided herein.

SEC. 8—A majority vote of the Executive Committee shall be necessary in the conduct of its business except as otherwise provided in this constitution or in the Section Bylaws.

SEC. 9—The Secretary-Treasurer shall send out notices of all regular Section meetings to all Institute members in the territory of the Section at least one week prior to the date of the meeting. These notices shall contain a full statement of the time, place, and business of the meeting.

ARTICLE IX

AMENDMENTS

SEC. 1—This Constitution may be amended by a two-thirds vote of all members present at any annual meeting of the Committee on Sections provided that notices of the proposed meeting and the proposed change have been sent to all members of the Committee on Sections at least one month in advance of the meeting. Such action shall be subject to the approval of the Board of Directors of the Institute.

SEC. 2—In the event of absence of any member of the Committee on Sections, he may vote by proxy on amendments to this Constitution.

SEC. 3—Suitable Bylaws to this Constitution may be adopted by a two-thirds vote of the voting members present at any regular meeting, providing that notice of the proposed change has been sent to each voting member at least three weeks prior to such meeting. Such Bylaws must be consonant with the Constitution and Bylaws of the Institute and this Constitution. A copy of these Bylaws shall be filed in the Institute Office.

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NOTE

IN the following pages are set forth the names of the members of The Institute of Radio Engineers. These have been disposed under four headings, as follows:

Biographies of Fellows; a list of all Fellows, with a short biographical note on each.

Names of Senior Members; an alphabetical list of names only.

Membership Roster; a complete listing of all members (not including Students) on record as of December 31, 1947; giving membership grades, business affiliations, and mailing addresses.

Geographical Listing of Membership; by states and foreign countries, and by cities within such areas; including a designation of the present grade of each member.

All listings include appointments and elections up to December 31, 1947.

In the Roster the following symbols indicative of grade are used, along with numerals of the year of admission to that grade:

(F) *Fellow*
(SM) *Senior Member*
(M) *Member*
(A) *Associate*
(VA) *Voting Associate.* Those who were Associates on or before March 1, 1939, automatically became Voting Associates as of that time.
(S) *Student*
(J) *Junior.* This grade no longer exists.

MEMBERSHIP LISTS

Including

BIOGRAPHIES OF FELLOWS

A LIST OF SENIOR MEMBERS

AND A

GEOGRAPHICAL LISTING

BIOGRAPHIES OF FELLOWS

(As of December 31, 1947)

ON the following pages will be found the biographical sketches of 260 Fellows of The Institute of Radio Engineers.

Late in 1941, it was decided that the Fellow grade should be made an honorary one and the recipients be selected solely by the Awards Committee and approved by the Board of Directors. In the case of readmissions, when the Fellow grade was granted before the end of 1941, and before citations were granted, no citations are given.

MARCUS A. ACHESON
(A'36—M'37—F'41)

Manager, Advanced Development Department, Sylvania Electric Products, Inc., 83–30 Kew Gardens Rd., Kew Gardens, L.I., N.Y. Born: January 18, 1903, Denison, Texas. B.S. (E.E.), Rice Institute, 1924.

Committees: Papers, 1937.

GEORGE P. ADAIR
(A'42—SM'44—F'47)

Consulting Radio Engineer, 1833 M Street, N.W., Washington 6, D.C. Born: December 8, 1903, Rancho, Texas. B.S. in E.E., Agricultural and Mechanical College of Texas, 1926.

Fellow Award, 1947, for his

"technical direction of matters relating to allocation of radio frequencies."

Life Honorary Member, International Municipal Signal Association, 1944.

Committees: Washington Section, Secretary Treasurer, 1946; Vice-Chairman, 1947.

ERNST F. W. ALEXANDERSON
(A'13—M'13—F'15)

Consulting Engineer, General Electric Company, 1 River Rd., Schenectady, N.Y. Born: January 25, 1878, Uppsala, Sweden. E.E., Royal Technical University, Stockholm, Sweden, 1900; Sc.D., Union College, 1926; Ph.D., Uppsala University, Sweden, 1938.

Medal of Honor, 1919, in

"recognition of his pioneer accomplishments in the field of long-distance radio communication, including his development of the radio-frequency alternator which bears his name, a magnetic amplifier permitting effective modulation of the output of such an alternator, and a cascade radio-frequency vacuum-tube amplifier yielding exceptional total amplification."

John Ericsson Gold Medal, American Society of Swedish Engineers, 1944; Edison Medal, American Institute of Electrical Engineers, 1944; Odergren Gold Medal, Royal Swedish Technical University, 1944.

President, 1921; Vice-President, 1920; Manager, 1917–1919; Director, 1920–1921. Committees: Meetings and Papers, 1928; Standardization, 1916–1923; Wave Length Regulation, 1916, 1919.

Sections: Washington, *chairman*, 1947.

ANDREW ALFORD
(A'35—M'40—F'42)

Consulting Engineer, 299 Atlantic Ave., Boston 10, Mass. Born: August 5, 1904, Samara, Russia. A B., University of California, 1924.

Fellow Award, 1942, for his

"contributions to the theory of radiation and the design of short-wave antennas."

Committees: Annual Review, 1944–1945; Antennas, 1944–1947, *chairman*, 1944–1945, Papers Procurement, 1947; Standards, 1944–1945; Transmitters and Antennas, 1943–1944; Transmitters, 1944–1945.

CLIFFORD N. ANDERSON
(A'19—F'34)

Technical Staff, Bell Telephone Laboratories, Inc., 463 West St., New York 14, N.Y.; Lieutenant Commander, U. S. Naval Reserve, Bureau of Ships (935), Washington, D.C. Born: September 22, 1895, Scandinavia, Wis. Ph.B., 1919, M.S., 1920, University of Wisconsin.

Committees: Admissions, 1930–1931; New York Program, 1932; Sections, 1941–1944; Tellers, 1932–1933.

EDWARD V. APPLETON
(A'26—F'31)

Secretary, Department of Scientific and Industrial Research, Park House, 24 Rutland Gate, London, S.W. 1, England. M.A., D.Sc., L.L.D., F.R.S.

Morris Liebmann Memorial Prize, 1929, for his

"investigations in the field of wave propagation phenomena."

Vice-President, 1932; Director, 1932. Committees: Meetings and Papers, 1929; Wave Propagation, 1937–1938.

EDWIN H. ARMSTRONG
(A'14—F'27)

Professor of Electrical Engineering, Columbia University, 206 Philosophy Hall, New York 27, N.Y. Born: December 18, 1890, New York, N.Y. E.E., 1913, D. Sc., Columbia University, 1929; D. Sc., Muhlenberg College, 1941.

Medal of Honor, 1917, in

"recognition of his work and publications dealing with the action of the oscillating and non-oscillating audion."

Egleston Medal, Columbia University, 1939; Modern Pioneer Award, National Association of Manufacturers, 1940; Holley Medal, American Society of Mechanical Engineers, 1940; The Franklin Medal and Honorary Member, The Franklin Institute, 1941; The John Scott Medal, Board of City Trustees of the City of Philadelphia, 1941; Medal of Class of 1889, School of Mines, Columbia University, 1941; Edison Medal, American Institute of Electrical Engineers, 1943.

Manager, 1916–1922; Director, 1936–1938. Committees: Admissions, 1926; Awards, *chairman*, 1936; Frequency Modulation, 1941; Nominations, 1940; Radio Receivers, 1936–1941; Receiving Sets, 1927; Standardization, 1917–1921, 1924–1926; Tellers, *chairman*, 1937; Wave Length Regulation, 1916, 1919.

SIR NOEL ASHBRIDGE
(F'38)

Deputy Director-General, British Broadcasting Corporation, Broadcasting House, London, W.1., England. Born: December 10, 1889, Wanstead, Essex, England. B. Sc. (Engineering), King's College, London University, 1911.

Fellow of King's College, London; Knight of the Royal Order of Dannebrog (Danish), 1934; James Watt Medal, The Institution of Civil Engineers, 1937; President, The Institution of Electrical Engineers, 1941-1942.

Vice-President, 1947. Director, 1947.

ARTHUR O. AUSTIN
(F'30)

Manufacturing Engineer, Box 109, Barberton, Ohio. Born: December 28, 1879, Stockton, Calif. A.B., Stanford University, 1903.

AUSTIN BAILEY
(A'25—M'25—F'36)

Telephone Engineer, American Telephone and Telegraph Company, 195 Broadway, New York 7, N.Y. Born: June 9, 1893, Lawrence, Kan. A.B., University of Kansas, 1915; Ph.D., Cornell University, 1920.

Director, 1940–1942. Committees: Admissions, 1934; *chairman*, 1935; Awards, 1945; Constitution and Laws, 1932–1934, 1936–1942, 1944–1945; Membership, 1941; New York Program, 1930; *chairman*, 1931; 1932–1934, 1937; *chairman*, 1938; 1939–1940; Sections, 1929; *chairman*, 1930; 1931–1933; Tellers, *chairman*, 1939; 1940.

Institute Representative; American Standards Association, Sectional Committee on Graphical Symbols and Abbreviations for Use on Drawings, 1940–1945; Sectional Committee on Standards for Drawings and Drafting Room Practices, 1940–1945.

STUART L. BAILEY
(A'28—M'36—SM'43—F'43)

Partner, Jansky and Bailey, 1339 Wisconsin Ave., N.W., Washington 7, D.C. Born: October 7, 1905, Minneapolis, Minn. B.S. (E.E.), 1927, M.S., 1928, University of Minnesota.

Fellow Award, 1943, for

"pioneering accomplishment in the application of radio engineering principles to the solution of technical problems in broadcasting."

Director, 1943–1947. Committees: Admissions, 1943–1944; Broadcast, *alternate*, 1931–1932; 1934; Constitution and Laws, 1944; Executive, 1945, 1946; Public Relations, *alternate*, 1946; Nominations, 1947; Radio Wave Propagation, 1937–1947; Sections, 1945–1947.

W. R. G. BAKER
(A'19—F'28)

Vice-President in charge of Management, General Electric Company, Electronics Park, Syracuse 1, N.Y. Born: November 30, 1892, Lockport, N.Y. B.E., 1916, M.E.E., 1918, Honorary D.S., 1935, Union College.

President, 1947. Director, 1940, 1946–1947. Committees: Admissions, 1941; Awards, 1940; Broadcast, 1935; Meetings and Papers, 1926, 1928–1929; Membership, 1928; Nominations, 1930; Power Supply, 1928; Preparedness, 1941; Sections, 1931–1932; Standardization, 1925; Standards, 1938–1940.

Sections: Philadelphia, *chairman*, 1931; Connecticut Valley, *secretary*, 1938–1940.

JOHN A. BALCH
(M'17—F'40)

Chairman of the Board, Mutual Telephone Company, Alakea St., Honolulu, Hawaii. Born: August 6, 1876, San Francisco, Calif.

Marconi Medal, Pioneer Wireless Telegraph Operators, 1940.

MILLARD W. BALDWIN, JR.
(A'40—SM'45—F'48)

Research Engineer, Bell Telephone Laboratories, 463 West Street, New York 14, N.Y. Born: December 1902, Port Ewen, N.Y. E.E., Cornell University, 1925; M.A., Columbia University, 1928.

Fellow Award, 1948, for his

"fundamental investigations of the quality of television pictures."

Committees: Special Television Test Methods, 1940; Facsimile, 1941: Methods of Testing Television Transmitters, 1945–1947; Television Definitions, 1945–1947.

WILMER L. BARROW
(A'28—VA'39—M'40—F'41)

Chief Engineer, Sperry Gyroscope Company, Inc., Marcus Ave., and Lakeville Rd., Lake Success, L.I., N.Y. Born: October 23, 1903, Baton Rouge, La. M.S., Massachusetts Institute of Technology, 1929; Sc.D., Technische Hochschule, Munich, Germany, 1931.

Morris Liebmann Memorial Prize, 1943, for his

"theoretical and experimental investigations of ultra-high-frequency propagation in wave guides and radiation from horns, and the application of these principles to engineering practice."

Fellow Award, 1941, for

"pioneering investigation of ultra-high-frequency wave propagation and many of its practical applications."

Director, 1943–1945. Committees: Antennas, 1945–1947; Awards, 1944–1945; Board of Editors, 1946, 1947; Constitution and Laws, 1943–1944; Executive, 1945; Nominations, 1943; Papers, 1941, 1943–1945; Papers Procurement, 1942–1943; Regular Papers Committee, 1941; Research, 1946, 1947; Sections, *ex officio*, 1939–1941; Standards, 1938–1941; Wave Guides, 1943–1944; Wave Propagation, 1941.

Sections: Boston, *chairman*, 1939–1941.

Institute Representative: Radio Technical Planning Board, *alternate*, 1944; 1945.

F. SHERBROOKE BARTON
(F'35)

Chief Scientific Officer, Director, Communications Development, Ministry of Supply, Thames House, Millbank, London, S.W. 1, England. Born: May 13, 1895, Nottingham, England. Scholar, St. Johns College, Cambridge, 1914; M.A., University of Cambridge, 1920; B.Sc., University of London, 1920.

Vice-President, 1943; Director, 1943.

MAX C. BATSEL
(A'21—F'27)

Chief Engineer, Engineering Products Department, RCA Victor Division, Radio Corporation of America, Cooper St., Camden, N.J. Born: June 14, 1894, Fulton, Ky. B.M.E., University of Kentucky, 1915.

Director, 1933. Committees: Bibliography, 1930–1932; Meetings and Papers, 1928–1929; Membership, 1926–1927; New York Program, 1931–1933; Receiving Sets, 1927–1928; Standardization, 1925, 1927–1931; Use of the Transmission Unit, 1928.

BENJAMIN DE F. BAYLY
(M'34—SM'43—F'47)

Professor, Electrical Engineering, University of Toronto, Ont., Canada. President, Bayly Engineering Limited, Oshawa, Ont., Canada. Born: June, 1903, London, Ont., Canada. B.A.Sc. University of Toronto, 1930.

Fellow Award, 1947, for his

"contributions as a teacher in the field of radio communications and his service in the co-ordination of communications security."

O.B.E., Canadian Government, 1946.

Committees: Papers Review, 1947.

Sections: Toronto, *chairman*, 1936.

LESLIE H. BEDFORD
(S'34-SM'43-F'48)

Chief Television Engineer, Marconi's Wireless Telegraph Company, Chelmsford, Essex, England. Born: June 23, 1900, London, England. B.Sc., 1919, B.Sc. (Engineering), 1921, University of London; M.A., Cambridge University, 1924.

Fellow Award, 1948, for his

"development of special circuits, in particular those used for scanning purposes, in television."

I.E.E. Premium, Institution of Electrical Engineers, London, 1934; Order of the British Empire, 1943.

GEORGE L. BEERS
(A'27—M'29—SM'43—F'47)

Assistant Director of Engineering, RCA Victor Division, Radio Corporation of America, Camden, N.J. Born: May 13, 1899, Indiana, Pa. BS–EE, 1921,. Sc.D.(Honorary) 1927, Gettysburg College.

Fellow Award, 1947, for his

"numerous advances in circuits and systems leading to improved radio broadcasting, particularly in the receiver field."

Modern Pioneer Award, National Association of Manufacturers, 1940.

Committees: Papers Procurement, 1946; Radio Receivers 1943-1944 and 1946; Technical on Radio Receivers, 1947.

F. J. BEHR
(A'13—M'13—F'20)

Colonel, retired, May Apts., Apt. 6, 615 University Ave., Palo Alto, Calif.

Committees: Increase of Membership, 1913–1914.

EDWARD BENNETT
(M'17—F'18)

Professor Emeritus of Electrical Engineering, University of Wisconsin; Consulting Engineer, 1919 Jefferson St., Madison, Wis. Born: October 26, 1876, Pittsburgh, Pa. E.E., University of Pittsburgh, 1897.

Manager, 1923–1925. Committees: Circuit Elements, 1928; Standardization, 1925–1928.

LLOYD V. BERKNER
(A'26—M'34—SM'43—F'47)

Chairman, Section of Exploratory Geophysics of the Atmosphere, and Staff Member, Department of Terrestrial Magnetism, Carnegie Institution of Washington, 5241 Broad Branch Road, N.W., Washington 15, D.C. Born: February 1, 1905, Milwaukee, Wis. B.S. in E.E., University of Minnesota, 1927; George Washington University.

Fellow Award, 1947, for his

"investigation of ionospheric phenomena and his contributions to airborne radar development."

Special Gold Medal of Congress, 1930; Silver Medal of Aeronautical Institute; Gold Medal of the City of New York for work on the Byrd Antarctic Expedition; Science Award of the Washington Academy of Science, 1941; Legion of Merit, 1946; Honorary Office of the Order of the British Empire for contribution to the British anti-submarine effort.

Committees: Board of Editors, 1941; Wave Propagation, 1937–1940.

H. H. BEVERAGE
(A'15—M'26—F'28)

Director, Radio Systems Research Laboratory, RCA Laboratories Division, Radio Corporation of America, 66 Broad St., New York 4, N.Y. Born: October 14, 1893, North Haven, Maine. B.S., 1915, D.E., 1938, University of Maine.

Morris Liebmann Memorial Prize, 1923, for his

"work on directional antennas."

Medal of Honor, 1945, in

"recognition of his achievements in radio research and invention, of his practical applications of engineering developments that greatly extended and increased the efficiency of domestic and world-wide radio communications, and of his devotion to the affairs of the Institute of Radio Engineers."

Armstrong Medal, 1938, Radio Club of America.

President, 1937; Past-President Director, 1938; Director, 1936–1939. Committees: Admissions, 1936, 1941, 1942–1947; Awards, *chairman*, 1938; 1939; Board of Editors, 1932–1937, 1944; High-Frequency Receivers, 1930–1931; New York Program, 1932–1935; Nominations, *chairman*, 1942; 1943; Radio Receivers, 1933; Standards, 1934.

HAROLD BISHOP
(F'38)

Chief Engineer, British Broadcasting Corporation, Broadcasting House, London, W. 1, England. Born: October 29, 1900, London, England. B.Sc.(Eng.), City and Guilds (Engineering) College, University of London, 1920.

Institution Premium, Institution of Electrical Engineers, 1935; Commander of the (Order of the) British Empire, 1938.

HAROLD S. BLACK
(M'42—SM'43—F'48)

Research Engineer, Bell Telephone Laboratories, Inc. 180 Varick Street, New York 14, N. Y. Born: April 14, 1898, Leominster, Mass. B.S., Worcester Polytechnic Institute, 1921.

Fellow Award, 1948, for his

"work on the negative-feedback amplifier and for his application of pulse techniques to radio-communication systems."

Best Paper Prize, A.I.E.E., 1934; Modern Pioneer Award, National Association of Manufacturers, 1940; John Price Wetherill Medal, The Franklin Institute, 1941.

Committees: Modulation Systems, 1946–1947; Papers Review, 1947; Editorial Administrative, 1947.

OTTO B. BLACKWELL
(M'20—F'28)

Assistant Vice-President, American Telephone and Telegraph Company, 195 Broadway, New York 7, N.Y. Born: August 21, 1884, Bourne, Mass. S.B., Massachusetts Institute of Technology, 1906.

Committees: Standardization, 1920–1923.

ROBERT M. BOWIE
(A'34—M'37—SM'43—F'48)

Manager of Research, Sylvania Electric Products, Inc., 34–10 Linden Place, Flushing, L. I., N. Y. Born: August 24, 1908, Table Rock, Neb. B.S. in Chem. Tech., Iowa State College, 1929; M.S. in Physics, Iowa State College, 1931; Ph.D. in Physics, Iowa State College, 1933.

Fellow Award, 1948, for his

"contributions in the fields of microwave techniques, spectroscopic methods and standards, and for his development of means to avoid the effect of ion bombardment on cathode-ray tube screens."

Committees: Admissions, 1945–1947; Board of Editors, 1947; Papers Review, 1947; Nuclear Studies, 1947; Subcommittee on Microwave Tubes, 1945–1947; Papers Procurement, 1947; National Electronic Conference, 1939–1941; Research, 1946–1947; Paper Procurement Subcommittee, 1946–1947.

EDWARD L. BOWLES
(A'22—M'28—SM'43—F'47)

Consulting Professor of Electrical Communications, Massachusetts Institute of Technology; Consulting Engineer, Scientific Advisor, Army Air Forces. Born: December 9, 1897, Westphalia, Mo. B.S. Washington University, 1920; M.S., Massachusetts Institute of Technology, 1922; D.Sc.(Honorary), Norwich University, 1945.

Fellow Award, 1947, for his

"activities in making possible the maximum practical use of advanced radio equipment in military operations and for his work in the educational field."

Distinguished Service Medal, the President of the United States, 1945.

Committees: Papers Procurement, 1942–1943; Regular Papers, 1941; Membership, 1938–1940.

Sections: Boston, *chairman*, 1937.

RALPH BOWN
(M'22—F'25)

Director of Research, Bell Telephone Laboratories, Inc., Murray Hill, N.J. Born: February 22, 1891, Fairport, N.Y. M.E., 1913, M.M.E., 1915, Ph.D., 1917, Cornell University.

Morris Liebmann Memorial Prize, 1926, for

"researches and investigations into the more difficult element of wave transmission phenomena which have resulted in extensive and useful additions to existing knowledge."

President, 1927; Vice-President, 1926; Junior Past President, 1928–1929; Director, 1926–1929, 1937–1939. Committees: Admissions, *chairman*, 1926; 1939–1940; Awards, 1928–1931, 1938–1941, 1946; *chairman*, 1942; Board of Editors, 1946, 1947; Constitution and Laws 1929, 1937–1940; Finance, *chairman*, 1926; Meetings and Papers, 1929; Nominations, 1937, 1940–1943; *chairman*, 1944; Receiving Sets, 1927–1928; Standards, *chairman*, 1925; 1926, 1941.

GREGORY BREIT
(SM'45—F'45)

Professor, Department of Physics, Sloane Physics Laboratory, Yale University, New Haven 11, Conn. Born: July 14, 1898, Russia. A.B., 1918, A.M., 1920, Ph.D., 1921, Johns Hopkins University.

Fellow Award, 1945, for

"pioneering in the experimental probing of the ionosphere and giving to the world the first publication of the experimental proof of the existence of the ionosphere; and for having initiated at an early date the pulse method of probing by reflection which is the basis of modern radar."

GEORGE H. BROWN
(A'30—VA'39—F'41)

Research Engineer, RCA Laboratories Division, Radio Corporation of America, Princeton, N.J. Born: October 14, 1908, North Milwaukee, Wis. B.S., 1930, M.S., 1931, Ph.D., 1933, E.E.(Professional), 1942, University of Wisconsin.

Fellow Award, 1941, for

"studies and publications in the field of radio antennas."

Committees: Annual Review, 1947; Antennas, 1938, 1944–1947; Railroad and Vehicular Communication, 1946; Transmitters, 1944–1945.

GEOFFREY BUILDER
(A'32—F'41)

Consulting Engineer, 57 York St., Sydney, N.S.W., Australia. Born: June 21, 1906, Cue, Western Australia. B.Sc., University of Western Australia, 1928; Ph.D., King's College, London, 1933.

Fellow Award, 1941, for

"contributions as an engineer, executive, and organizer and for his work in behalf of the radio engineering profession, notably in Australia."

Overseas Premium, Institution of Electrical Engineers (London), 1936.

CHARLES T. BURKE
(A'25—M'27—F'37)

Director of Planning, General Radio Company, 275 Massachusetts Ave., Cambridge 39, Mass. Born: August 4, 1902, Watertown, Mass. S.B., 1924, S.M., 1924, Massachusetts Institute of Technology.

Committees: Handbook, 1945–1947; Papers Procurement, 1946; Power Supply, 1928; Receiving Sets, 1927; Standards, 1941–1943.

ROBERT S. BURNAP
(A'30—F'47)

Manager, Commercial Engineering, Tube Department, Radio Corporation of America, 5th & Sussex Streets, Harrison, N.J. Born: July 12, 1894, Monterey, Mass. S.B., Massachusetts Institute of Technology, 1916.

Fellow Award, 1947, for his

"many technical and administration contributions to the welfare of the Institute and radio field as an active chairman or member of numerous technical committees."

Committees: Electron Tubes, 1935–1947; Subcommittee on receiving tubes, 1935–1942; Annual Review, 1942–1947; Handbook, 1945–1947; Standards, 1942–1947; Symbols, 1940–1947; Chairman, Electron Tubes, 1942–1947; Chairman, Subcommittee on Receiving Tubes, 1939–1942; Papers Procurement, 1942–1944; Board of Editors, 1944–1947; Editorial Administrative, 1946–1947; Tellers, 1942; Meetings and Papers, 1943–1945.

Institute Representative: Subcommittee No. 14 of ASA C-42, 1947.

CHARLES R. BURROWS
(A'24—M'38—SM'43—F'43)

Director, School of Electrical Engineering, Cornell University, Ithaca, N.Y. Born: June 21, 1902, Detroit, Mich. B.S.E.(E.E.), University of Michigan, 1924; A.M., Columbia University, 1927; E.E., University of Michigan, 1935; Ph.D., Columbia University, 1938.

Fellow Award, 1943, for

"his contributions in the field of radio wave propagation, particularly for his investigations of propagation along the ground at ultra-high-frequencies."

Committees: Annual Review, 1943–1945; Circuits, 1945–1947; Radio Wave Propagation, 1939–1940, 1942; *chairman*, 1943–1945; Radio Wave Propagation and Utilization, 1945–1947; Standards, 1943–1945; Symbols, 1940–1947; Wave Propagation, 1937–1941.

HENRI G. BUSIGNIES
(M'42—SM'43—F'45)

Director, Federal Telecommunication Laboratories, Inc., 500 Washington Ave., Nutley, N.J. Born: December 29, 1905, Sceaux, Paris, France. E.E., Institut. Normal Electro-technique, Paris, 1926.

Lakowsky Foundation for Radio-Compass Invention, Radio Club of France, 1926.

Fellow Award, 1945, for his

"accomplishments in the field of radio direction finders, particularly pioneering work on instruments having automatic indicating features."

Committees: Navigation Aids, 1946, 1947.

HAROLD H. BUTTNER
(M'27—SM'43—F'44)

Vice-President, International Telephone and Telegraph Corporation, 67 Broad St., New York 4, N.Y. Born: November 3, 1892, Port Costa, Calif. B.S.(E.E.), University of California, 1915.

Fellow Award, 1944, in

"recognition of his direction of radio communication activities in the international field."

Committees: Electronics, 1940; Meetings and Papers, 1929; Standards, 1938–1939.

WALTER G. CADY
(A'14—F'27)

Professor Emeritus, Department of Physics, Scott Laboratory, Wesleyan University, Middletown, Conn. Born: December 10, 1874, Providence, R.I. Ph.B., 1895, M.A., 1896, Brown University; Ph.D., University of Berlin, 1900; D.Sc., Brown University, 1938.

Morris Liebmann Memorial Prize, 1928, for his

"fundamental investigations in piezoelectric phenomena and their application to radio technique."

Duddell Medal, Physical Society of London, 1936.

President, 1932; Junior Past President, 1933–1934; Manager, 1928; Director, 1929, 1932–1934; Editor, 1929. Committees: Admissions, *ex officio*, 1929; Annual Review, 1942–1947; Awards, 1928–1929, *chairman*, 1930; 1933; Bibliography, 1930–1931; Board of Editors, 1928, *chairman*, 1929; 1945; Meetings and Papers, 1928–1929; Nominations, 1930, 1933–1934, 1939; Papers, 1931; Piezoelectric Crystals, 1941, *chairman*, 1942–1945; Publicity, *ex officio*, 1929; Sections, 1928, *ex officio*, 1929; Standard, 1942–1947.

Sections: Connecticut Valley, *chairman*, 1927–1929.

ORESTES H. CALDWELL
(M'28—SM'43—F'44)

Treasurer, Caldwell-Clements, Inc.; Editorial Director, *Electronic Industries* and *Radio and Television Retailing*, 480 Lexington Ave., New York 17, N.Y. Born: March 8, 1888, Lexington, Ky. B.S. (E.E.), 1908, E.E., 1931, D.E., 1933, Purdue University.

Fellow Award, 1944, for his

"contribution in broadening the horizon of the engineer by his long-continued effort to increase the use of electronic principles in industrial operations."

Manager, 1932; Director, 1932–1935. Committees: Admissions, 1933; Annual Review, 1943; Board of Editors, 1946, 1947; Constitution and Laws, 1932–1933, 1935; Nominations, 1934; Public Relations, *chairman*, 1942; 1943–1945; Publicity, 1931–1933, *chairman*, 1934–1936; 1937, 1939; Tellers, 1932–1933.

E. FINLEY CARTER
(A'23—F'36)

Vice-President, Engineering, Sylvania Electric Products Inc., 500 Fifth Ave., New York 18, N.Y. Born: July 1, 1901, Elgin, Tex. B.S., Rice Institute, 1922.

Director, 1943–1945. Committees: Admissions, 1944; Constitution and Laws, 1945; Executive, 1944–1945.

E. LEON CHAFFEE
(M'17—F'21)

Professor of Applied Physics; Director of Cruft Laboratory, Harvard University, Cambridge 38, Mass. S.B., Massachusetts Institute of Technology, 1907; A.M., 1908, Ph.D., 1913, Honorary S.D., 1944, Harvard University.

Longstreth Medal of Merit, Franklin Institute, 1912.

Vice-President, 1922; Director, 1922. Committees: Circuit Elements, 1928; Electron Tubes, 1946; Electronics, 1937–1945; Letter Symbols, *chairman*, 1938; Membership, 1925; Papers, 1918–1919; Papers Procurement, 1942–1943; Regular Papers, 1941; Sections, *ex officio*, 1932–1935; Standardization, 1927–1931; Symbols, 1940–1943; Vacuum Tubes, 1930–1931, 1933, 1945–1945.

Sections: Boston, *chairman*, 1932–1935.

Institute Representative: Harvard University, 1941–1945.

ADOLPH B. CHAMBERLAIN
(A'27—M'30—F'41)

Chief Engineer, General Engineering Department, Columbia Broadcasting System, Inc., 485 Madison Ave., New York 22, N.Y. Born: February 3, 1901, Franklin, Mass.

Fellow Award, 1941, for

"engineering leadership in broadcast transmission and operation."

Director, 1941–1944. Committees: Admissions, *ex officio*, 1929; 1940–1941; Antennas, 1938; Awards, 1942; Broadcast, *alternate*, 1932; Frequency Modulation, 1941; New York Program, 1938–1939, *chairman*, 1940; 1941–1942; Papers, 1942; Public Relations, 1946; Publicity, *ex officio*, 1929; Regular Papers, 1941; Sections, 1928, *ex officio*, 1929–1931; Standardization: Subcommittee on the Establishment of Provisions for Safety of Operating and Other Personnel in Relation to Radio Transmitting Equipment, 1930–1931; Technical Committee No. 2, Radio Transmitters and Antennas, 1930–1931, 1933; Tellers, *chairman*, 1942; Standards, 1946; Transmitters and Antennas, 1936.

Sections: Buffalo-Niagara, *chairman*, 1930–1931; Rochester, *chairman*, 1928–1929.

DUDLEY E. CHAMBERS
(M'41—SM'43—F'48)

Executive Engineer, Research Laboratory, General Electric Company, 1 River Road, Schenectady 5, N. Y. Born: November 27, 1905, Kansas City, Mo. A.B., 1927, E.E., Stanford University.

Fellow Award, 1948, for the

"outstanding leadership he has provided in the translation of research to engineering in one of the country's large industrial laboratories."

Fellow Award, 1948, American Institute of Electrical Engineers.

HOWARD A. CHINN
(A'42—SM'45—F'45)

Chief Audio Engineer, Columbia Broadcasting System, Inc., 485 Madison Ave., New York 22, N.Y. Born: January 5, 1906, New York, N.Y. S.B., 1927, S.M., 1929, Massachusetts Institute of Technology.

Fellow Award, 1945, for his

"contributions to improved broadcasting."

Committees: Admissions, 1945–1947; Education, 1945; Membership, 1934, 1936–1938; Papers, 1935–1940, 1944–1945; Papers Review, 1946, 1947; Tellers, *chairman*, 1946; 1947.

LEWIS W. CHUBB
(M'21—F'40)

Director, Westinghouse Research Laboratories, Westinghouse Electric Corporation, East Pittsburgh, Pa. Born: October 22, 1882, Fort Yates, N.Dak. M.E.(E.E.), Ohio State University, 1905; Sc.D., Allegheny College; Sc.D., University of Pittsburgh.

Committees: Board of Editors, 1947; Membership, 1928; Power Supply, 1928; Standardization, 1921–1925, 1926.

Institute Representative: American Engineering Standards Committee (now American Standards Association) Technical Committee, Power Supply and Outside Plant, *chairman*, 1926.

JAMES K. CLAPP
(A'24—M'28—F'33)

Engineer, General Radio Company, 275 Massachusetts Ave., Cambridge 39, Mass. Born: December 30, 1897, Denver, Colo. S.B., 1923, S.M., 1926, Massachusetts Institute of Technology.

Committees: Papers, 1931–1945; Papers Review, 1946, 1947; Piezoelectric Crystals, 1941–1947; Standards, 1934–1935.

ANDRE G. CLAVIER
(M'30—F'39)

Technical Consultant, Federal Telecommunication Laboratories, Inc., 67 Broad St., New York 4, N.Y. Born: February 15, 1894, Cambrai, France. Licencié-es-sciences physiques et mathématiques, Paris, 1918; Ingénieur de l'Ecole Superieure d'Electricité, Paris, 1920.

LEWIS M. CLEMENT
(A'14—M'17—F'26)

Director, Research and Engineering, Crosley Division, Avco Manufacturing Corporation, 1329 Arlington St., Cincinnati 25, Ohio. Born: January 25, 1892, Oakland, Calif. B.S.(E.E.), University of California, 1914.

Director, 1945, 1947. Committees: Board of Editors, 1941–1947; Electro-Acoustic Devices, 1930–1931; Meetings and Papers, 1929; Receiving Sets, 1927–1928; Regular Papers, 1941; Sections, *ex officio*, 1945; Standardization: 1930–1931.

Sections: Cincinnati, *chairman*, 1945.

IVAN S. COGGESHALL
(A'26—M'29—F'42)

General Traffic Manager, Western Union Telegraph Company, 60 Hudson Street, New York 13, N.Y.; Lieutenant Commander, U.S. Naval Reserve. Born: September 30, 1896, Newport, R.I.

Fellow Award, 1942, for his

"services to the welfare of the Institute and the engineering profession."

Director, 1941–1944. Committees: Admissions, 1934–1935, 1941–1942; Annual Review, 1944–1947; Constitution and Laws, 1942, 1945–1947; Executive, 1942; Membership, 1928, *chairman*, 1929–1930; 1931, *chairman*, 1934–1935; 1936–1940, *chairman*, 1941; New York Program, 1938, *chairman*, 1939; 1940; Nominations, 1944; Papers, 1942–1945; Papers Procurement, *group chairman*, 1945; Papers Review, 1946–1947; Public Relations, *chairman*, 1943–1945; 1946; Sections, 1933–1935, 1938–1942; Standards, 1945–1946,

LOUIS COHEN
(F'15)

Consulting Engineer, Apt., 512, 1400 S. Edgewood St., Arlington, Va. Born: December 16, 1876, Russia. B.Sc., Armour Institute of Technology, 1901; University of Chicago, 1901–1902; Ph.D., Columbia University, 1905.

Committees: Standardization, 1915.

JOHN B. COLEMAN
(A'25—M'29—SM'43—F'48)

Assistant Director, RCA Victor Division, Radio Corporation of America, Front and Cooper Streets, Camden, N.J. Born: August, 1899, Indiana County, Pa. B.S. and E.E., Carnegie Institute of Technology, 1923.

Fellow Award, 1948, for his

"contribution through development, design and technical direction of work in the field of radio transmitters."

Sections: Philadelphia, *chairman*, 1942.

EDWIN H. COLPITTS
(A'14—F'26)

Director, The Engineering Foundation, 29 W. 39 St., New York 18, N.Y.; Chief, Section 6.1, National Defense Research Committee. Born: January 19, 1872, Point de Bute, N.B., Canada. A.B., Mt. Allison University, 1893; A.B., 1896, A.M., 1897, Harvard University; Honorary LL.D., Mt. Allison University, 1926.

Order of Sacred Treasure, Empire of Japan, 1937.

Manager, 1921–1923.

ELLSWORTH D. COOK
(A'21—VA'39—F'41)

Division Engineer, High-Frequency Division, and Consulting Laboratory, General Electric Company, 1 River Rd., Schenectady, N.Y. Born: June 17, 1898, Schenectady, N.Y. B.S.(E.E.), 1920, M.S.(E.E.), 1921, Ph.D.(E.E.), 1923, Union College.

Fellow Award, 1941, for

"contributions to a wide range of important radio engineering projects."

Committees: Admissions, 1944–1947; Electro-Acoustic Devices, *chairman*, 1933. Membership, 1936–1939, *chairman*, 1940; 1942–1943; *chairman*, 1944–1945; 1946–1947; Sections, *ex officio*, 1934; 1935, 1937; *chairman*, 1938–1939; 1940–1947; Standards, 1932–1933.

Sections: Philadelphia, *chairman*, 1934–1935.

Institute Representative: American Standards Association Sectional Committee on Acoustical Measurements and Terminology, 1936–1937, 1939–1945.

ADOLFO T. COSENTINO
(A'37—VA'39—F'40)

Section Communications Superintendent, Pan American-Grace Airways, Inc., Avenida Pte. R. Saenz Pena 788, Buenos Aires, Argentina, Born: November 18, 1898, Buenos Aires, Argentina. Attended National School in Buenos Aires.

Vice-President, 1941; Director, 1941. Committees: Sections, *ex officio*, 1940–1941.

Sections: Buenos Aires, *chairman*, 1940–1941.

TUNIS A. M. CRAVEN
(F'29)

Vice-President, Cowles Broadcasting Company; General Manager, Station WOL, 1627 K St., N.W., Washington 6, D.C. Born: January 31, 1893, Philadelphia, Pa. Graduate, United States Naval Academy, 1913.

Director, 1937. Committees: Broadcast, 1934; Meetings and Papers, 1930; Papers, 1931–1941; Radio Transmitters and Antennas, 1930–1931; Standardization, 1929–1931; Subcommittee on Establishment of Provisions for Safety of Operating and Other Personnel in Relation to Radio Transmitting Equipment, 1930–1931; Subcommittee on Nomenclature, Symbols and Definitions, *chairman*, 1930–1931.

MURRAY G. CROSBY
(A'25—M'38—SM'43—F'43)

Consulting Engineer, 126 Old Country Rd., Mineola, L.I., N.Y. Born: September 17, 1903, Elroy, Wis. B.S., 1927, E.E., 1943, University of Wisconsin.

Fellow Award, 1943, for his

"contributions to the development of high-frequency radio communications, including a careful study of frequency modulation."

Director, 1947. Committees: Admissions, 1945–1946; Annual Review, 1946–1947; Board of Editors, 1947–1949; Frequency Modulation, 1941–1947; *chairman*, 1946–1947; Papers, 1944–1945; Papers Procurement, *group chairman*, 1945; Papers Review, *chairman*, 1946–1947; Standards, 1946–1947.

A. EARL CULLUM, JR.
(JM'28—AM'31—SM'45—F'48)

Head of firm of consulting radio engineers, Highland Park Village, Dallas 5, Texas. Born: September 1909, Abilene, Texas. B.S. in Communications Engineering, Massachusetts Institute of Technology, 1931.

Fellow Award, 1948, for his

"contribution to the wartime radio-countermeasures program."

Committees: Subcommittee on High-Frequency Broadcasting, Radio Technical Planning Board, 1945; Organizational Research of the I.R.E., 1945–1946; Radio Wave Propagation and Utilization, 1946–1947.

FULTON CUTTING
(M'15—F'21)

Professor of Physics and Assistant to the President for Research, Stevens Institute of Technology, Hoboken, N.J. Born: December 27, 1886, New York, N.Y.

President, 1922; Vice-President, 1921; Manager, 1920; Director, 1921–1922. Committees: Education, 1944; Investments, 1944–1946.

LEE de FOREST
(M'14—F'18)

American Television Inc., 5050 N. Broadway, Chicago 40, Ill. Born: August 26, 1873, Council Bluffs, Iowa. Ph.B., 1896, Ph.D., 1899, Yale University; Sc.D., Syracuse University, 1919; D.Sc., Yale University, 1926; D. Eng., Lewis Institute, 1937.

Medal of Honor, 1922, for his

"major contributions to the communications arts and sciences, as particularly exemplified by his invention of that outstandingly significant device: the three-electrode vacuum tube, and his work in the fields of radio-telephonic transmission and reception."

President, Society of Wireless Telegraph Engineers, 1909–1910. President, 1930; Junior Past President, 1931–1932; Director, 1930. Committees: Specifications for Steamship Radio Equipment, 1914; Wave Length Regulation, 1916.

JOHN HOWARD DELLINGER
(F'23)

Chief, Division 14, Central Radio Propagation Laboratory, National Bureau of Standards, Washington, D.C. Born: July 3, 1886, Cleveland, Ohio. A.B., George Washington University, 1908; Ph.D., Princeton University, 1913; D.Sc., George Washington University, 1932.

Medal of Honor, 1938, for his

"contributions to the development of radio measurements and standards, his researches and discoveries of the relation between radio-wave propagation and other natural phenomena, and his leadership in international conferences contributing to world-wide co-operation in telecommunications."

President, 1925; Junior Past President, 1926–1927; Vice-President, 1924; Director, 1924–1925; Manager, 1928–1931. Committees: Annual Review, 1938–1943; Awards, 1934, 1936; Bibliography, 1930, *chairman*, 1931; 1932, 1934; Meetings and Papers, 1926, *chairman*, 1928; Nominations, 1928, *chairman*, 1931; 1935; Radio Wave Propagation, *chairman*, 1942; 1943–1945; Receiving Sets, *chairman*, 1927; Revision of the Constitution, *chairman*, 1926–1927; Sections, *ex officio*, 1932–1393; Standards, 1920–1928, *chairman*, 1929–1931; 1932–1941, 1943; Symbols, 1940–1941, 1943–1947; Use of the Transmission Unit, 1928; Wave Propagation, *chairman*, 1937–1941.

Sections: Washington, *chairman*, 1932–1933.

Institute Representative: American Documentation Institute, 1944–1945; Council of the American Association for the advancement of Science, 1926–1929; Engineering Index, 1931–1932; American Standards Association Sectional Committee on Electric and Magnetic Magnitudes and Units, 1936–1937, 1939–1945.

EDMOND M. DELORAINE
(M'25—F'41)

Technical Director, International Telephone and Telegraph Corporation, 67 Broad St., New York 4, N.Y. Born: May 16, 1898, Clichy, Seine, France. B.S., L'Ecole de Physique et Chimie Branch of Paris University, 1920. Vice-President, 1946. Director, 1946.

Committees: Board of Editors, 1944; Membership, 1927.

HARRY DIAMOND
(A'26—M'30—SM'43—F'43)

Physical Science Administrator, National Bureau of Standards, Washington 25, D.C. Born: February 12, 1900, Quincy, Mass. B.S., Massachusetts Institute of Technology, 1922; M.S., Lehigh University, 1925.

Fellow Award, 1943, for his

"contributions to the development and application of radio aids in air navigation and meteorology."

Engineering Award, Washington Academy of Sciences, 1940.

Committees: Antennas, 1938, 1944–1947; Papers Procurement, *group chairman*, 1944–1945; 1946–1947; Radio Receivers, 1936–1945; Standardization, Technical Committee No. 1, Radio Receivers and Parts, 1930–1931; Radio Receivers, 1938; Receiving Sets, 1927–1928; Subcommittee on Aircraft Receivers, 1930–1931; Transmitters and Antennas, 1936–1944; Transmitters, 1944–1946.

WILLIAM F. DIEHL
(A'19—M'29—F'36)

Assistant Vice-President, Airplane and Marine Instruments, Inc., Clearfield, Pa. Born: December 18, 1896, New York, N.Y.

Committees: Sections, *ex officio*, 1933–1934; Radio Transmitters and Antennas, 1930–1931; Transmitters and Antennas, 1933.

Sections: Philadelphia, *chairman*, 1933–1934.

WILLIAM H. DOHERTY
(A'29—M'36—SM'43—F'44)

Radio Development Engineer, Bell Telephone Laboratories, Inc., 463 West St., New York 14, N.Y. Born: August 21, 1907, Cambridge, Mass. S.B., 1927, S.M., 1929, Harvard University.

Morris Liebmann Memorial Prize, 1937, for his

"improvement in the efficiency of radio-frequency power amplifiers."

Fellow Award, 1944, for his

"contributions to the development of radio transmitting equipment."

Committees: Membership, 1943–1946.

ROBERT B. DOME
(A'27—M'38—SM'43—F'48)

Electrical Consultant and Section Engineer in charge of the Advanced Development Section, Receiver Division, Electronics Department, General Electric Company, P.O. Box 1122, Electronics Park, Syracuse, N.Y. Born: October, 1905, Tell City, Ind.

Fellow Award, 1948, for his

"many technical contributions to the profession and for his accomplishments in the training of young engineers."

Honorary Research and Scientific, Coffin Award.

Committees: Papers Committee, 1940–1944; Papers Review, 1945; Color Television Subcommittee, 1947; Board of Editors, 1946–1947.

HERBERT G. DORSEY
(M'19—F'34)

Writer, Science Service, 1719 N St., N.W., Washington 6, D.C. B.S., 1897, Sc.D., 1937, Denison University; Ph.D., Cornell University, 1908.

First Annual Award, Washinton Society of Engineers, 1941.

Committees: Membership, *ex officio*, 1930–1931; Sections, *ex officio*, 1933.

Sections: Washington, *secretary*, 1930–1932, *chairman*, 1933.

JENNINGS B. DOW
(M'26—F'42)

Vice-President, Hazeltine Electronics Corporation, 58–25 Little Neck Pkwy., Little Neck, L.I., N.Y. Born: January 2, 1897, Bowling Green, Ohio. B.S., United States Naval Academy, 1919; M.S., Harvard University, 1926.

Fellow Award, 1942, for

"engineering accomplishments in the development and procurement of radio equipment for the United States Navy."

Committees: Board of Editors, 1944–1945; Electronics, 1940–1945; Papers, 1941–1944.

WILLIAM DUBILIER
(A'14—M'18—F'29)

Vice-President and Technical Director, Cornell-Dubilier Electric Corporation; President, Radio Patents Corporation, 10 E. 40 St., New York 16, N.Y. Born: July 25, 1888, New York, N.Y. Cooper Institute, New York, N.Y.

LEE A. Du BRIDGE
(A'35—VA'39—F'42)

President, California Institute of Technology, 1201 E. California Street, Pasadena 4, Calif. Born: September 21, 1901, Terre Haute, Ind. B.A., Cornell College, Iowa, 1922; M.A., 1924, Ph.D., 1926, University of Wisconsin; Honorary Sc.D., Cornell College, Iowa, 1940.

Fellow Award, 1942, for

"engineering and administrative leadership in the development and application of new radio techniques."

Committees: Awards, 1945; Electronics, 1943–1944; Sections, *ex officio*, 1936–1938.

Sections: Rochester, *chairman*, 1936–1938.

ALLEN B. DuMONT
(M'30—F'31)

President, Allen B. DuMont Laboratories. Inc., 2 Main Ave., Passaic, N.J. Born: January 29, 1901, Brooklyn, N.Y. E.E., 1924, D. Eng., 1944, Rensselaer Polytechnic Institute.

Marconi Medal of Achievement, Veteran Wireless Operators Association, 1945; Technical Pioneering in Television, Television Broadcasters Association, 1944.

Committees: Cathode-Ray and Television Tubes, 1938; Electron-Beam Tubes, 1938; Standardization, 1930–1931; Standards, 1932–1933; Television, 1940–1945.

GANO DUNN
(F'15)

President, The J.G. White Engineering Corporation, 80 Broad Street, New York 4, N.Y.; President, Cooper Union for the Advancement of Science and Art, New York, N.Y. B.S., 1889, M.S., 1897, College of the City of New York; E.E., 1891, Honorary M.S., 1914, D.Sc., 1938, Columbia University; Honorary D.Sc., Rutgers University, 1938; Honorary D.Sc., New York University, 1941; Honorary D.Eng., Lehigh University, 1942.

Townsend Harris Medal, College of the City of New York, 1933; Edison Medal, 1937; Hoover Medal, 1939; Egleston Medal, Columbia University, 1939; Modern Pioneer Award, National Association of Manufacturers, 1940.

MELVILLE EASTHAM
(A'13—M'13—F'25)

Chief Engineer, General Radio Company, Cambridge, Mass. Born: June 26, 1885, Oregon City, Ore.

Medal of Honor, 1937, for his,

"pioneering work in the field of radio measurements, his constructive influence on laboratory practice in communication engineering, and his unfailing support of the aims and ideals of the Institute."

Treasurer, 1927–1940; Manager, 1922–1932; Director, 1932–1941; Committees: Admissions, *ex officio*, 1927, 1929–1931; 1937–1939, 1941–1942; Awards. *chairman*, 1929; 1931, 1935, 1939, *chairman*, 1941; 1942; Bibliography, 1930–1931, *chairman*, 1932, 1934; Circuit Elements, 1928; Constitution and Laws, 1930–1931; 1933; Education, 1944–1947; Membership, *ex officio*, 1927, 1929–1931; Nominations, *chairman*, 1929, 1930; 1932, *chairman*, 1935; 1936, 1938–1939, 1941; Papers, 1915–1919; Revision of the Constitution, 1925; Sections, 1925; Standardization, 1925, 1927–1928, Subcommittee on Electro-Acoustic Devices, 1927–1928, 1930–1931; Standards, 1936–1938; Wave Length Regulation, 1916; Committee for Organization of Boston Section, *secretary*, 1914.

Sections: Boston, *secretary-treasurer*, 1916–1928, *secretary*, 1929–1932.

Institute Representative: Engineering Index National Committee, 1936–1937; 1939–1943; Radio Broadcasting Committee of the American Engineering Council, 1930–1932, 1936–1937, 1939–1940; U.S. National Committee, Advisers on Electrical Measuring Instruments (International Electrotechnical Committee), 1931–1932, 1936–1937, 1939–1942; American Engineering Standards Committee (now American Standards Association) Technical Committee on Transmitting and Receiving Sets and Installations, 1927–1928; ASA Technical Committee on Transmitting and Receiving Sets and Installations. 1929–1930.

AUSTIN V. EASTMAN
(A'23—M'32—F'41)

Professor and Head of Department of Electrical Engineering, University of Washington, Seattle 5, Wash. Born: May 16, 1902, Seattle, Wash. B.S.(E.E.), 1922, M.S.(E.E.), 1929, University of Washington.

Committees: Admissions, *ex officio*, 1929–1931; Membership, 1942–1947; Papers Procurement, 1942–1943; Publicity, *ex officio*, 1929; Regular Papers, 1941; Sections, *ex officio*, 1929–1931.

Sections: Seattle, *chairman*, 1929–1931.

Institute Representative: University of Washington. 1941–1945.

PETER PENDLETON ECKERSLEY
(F'25)

Consulting Engineer, Telephone Manufacturing Company, St. Mary Cray, Kent, England. Born: January, 1892, La Puebla, Mexico. Certificate of Technology, Manchester School of Technology, 1915; Higher Certificate, Bedales School, 1910.

Premium Prize Award, Institution of Electrical Engineers, 1930.

Vice-President, 1936–1937; Board of Directors, 1937.

THOMAS L. ECKERSLEY
(F'44)

Chief Scientific Adviser to Marconi Wireless Telegraph Co., Ltd., retired, "Weatheroak," Danbury, Nr. Chelmsford, Essex, England. Born: December 27, 1886, London, England. B.Sc., University College, London, B.A., Cambridge University.

Fellow Award, 1944, for his

"outstanding contribution to the theory and practice of radio-wave-propagation research. Both his approach to the problem from the standpoint of practical communications and his invention of mathematical tools useful in the computation of radiated fields are achievements of lasting value acclaimed by the whole radio world, and form a monument of which he may be justly proud."

Committees: Wave Propagation, 1937–1939.

CORNELIUS D. EHRET
(F'16)

2121 Land Title Building, Philadelphia 10, Pa. Born: January 28, 1874 Erie, Pa. E.E., Cornell University, 1896; LL.B., National Law School, 1901.

BENNETT S. ELLEFSON
(A'38—M'44—F'48)

Director of Central Engineering Laboratories, Sylvania Electric Products Inc., 40–22 Lawrence Street, Flushing, L.I., N.Y. Born: January 10, 1911, Canby, Minn. B.A., St. Olaf College, Northfield, Minn., 1932; M.S., University of Minnesota, 1933; Ph.D. Pennsylvania State College, 1937.

Fellow Award, 1948, for his

"contributions to cathode-ray tube development, proximity-fuze tube design, and wartime electronic research."

Committees: Annual Review, 1946–1947.

CYRIL F. ELWELL
(M'14—F'18)

Consulting Engineer, Hewlett-Packard Company, 1320A Page Mill Rd., Palo Alto, Calif. Born: August 20, 1884, Melbourne, Victoria, Australia. A.B., 1907, E.E., 1908, Stanford University.

Committees: Increase of Membership, 1913–1914.

CARL R. ENGLUND
(A'17—F'28)

Retired. Formerly, Technical Staff, Bell Telephone Laboratories, Inc. Born: November 13, 1884, Sioux City, Iowa. B.S., University of South Dakota, 1909.

Committees: Fundamental Units and Measurements. 1933.

ELMER W. ENGSTROM
(A'25—M'38—F'40)

Vice-President in Charge of Research, RCA Laboratories Division, Radio Corporation of America, Princeton, N.J. Born: August 25, 1901, Minneapolis, Minn. B.S.(E.E.), University of Minnesota, 1923.

Committees: Awards, 1947, *chairman*, 1946; Board of Editors, 1940–1947; Public Relations, 1940; Regular Papers, 1941; Research 1946–1947; *chairman*, 1946; Television and Facsimile, 1936–1938; Television, 1939–1940.

LLOYD ESPENSCHIED
(M'13—F'24)

Research Consultant, Bell Telephone Laboratories, Inc., 463 West St., New York 14, N.Y. Born: April 27, 1889, St. Louis, Mo. Pratt Institute, 1909.

Medal of Honor, 1940, for his
"accomplishments as an engineer, as an inventor, as a pioneer in the development of radio-telephony, and for his effective contributions to the progress of international radio co-ordination."

Medal Award, Television Broadcasters Association, 1944.

Manager, 1913, 1915–1926, 1931. Committees: Admissions, 1942–1947; Awards, 1919; Editing, 1914; Increase of Membership, 1917–1919; Radio Receivers, 1933; Radio Telephone and Receiver Terminology, *chairman*, 1924–1925; Revision of the Constitution, 1925; Sections, *ex officio*, 1944–1945; Standardization, 1924–1925; Wave Length Regulation, 1916, 1919.

Sections: New York, *chairman*, 1944–1945.

Institute Representative: National Advisory Council on Radio in Education, 1932, 1936–1937, 1939–1940; Committee on Engineering Developments, 1941–1943; American Engineering Standards Committee (now American Standards Association) Technical Committee, Electro-Acoustic Devices, *chairman*, 1926.

PORTER H. EVANS
(M'23—F'31)

Engineer, Western Electric Company, 529 W. 42 St., New York, N.Y. Born: January 11, 1891, Erie, Pa. B.S.(E.E.), 1914, M.S., 1920, University of Michigan.

Committees: Standardization, 1930–1931.

WALTER C. EVANS
(M'36—SM'43—F'45)

Vice-President, Westinghouse Electric Corporation; President, Westinghouse Radio Stations Inc., Box 416, Baltimore 3, Md. Born: August 27, 1898, Columbus, Ohio.

Fellow Award, 1945, in
"recognition of his past contributions to radio and his present active participation in the affairs of the Institute."

Committees: Public Relations, 1947.

WILLIAM L. EVERITT
(A'25—M'29—F'38)

Professor and Head of Department of Electrical Engineering, University of Illinois, Urbana, Ill. Born: April 14, 1900, Baltimore, Md. E.E., Cornell University, 1922; M.S., 1926, University of Michigan; Ph.D., Ohio State University, 1933.

President, 1945; Director, 1942–1947. Committees: Awards, 1943; *chairman*, 1944; Board of Editors, 1941–1947; Circuits, 1944–1947; Education, *chairman*, 1944; Executive, *chairman*, 1945; Frequency Modulation, 1941–1945; Investments, 1945; Membership, 1942–1943; Nominations, 1942, 1946; Papers, 1941–1942; Papers Procurement, *vice-chairman*, 1943–1944; Regular Papers, *vice-chairman*, 1941; Research, 1946–1947.

Institute Representative: Ohio State University, 1941–1942.

PHILO T. FARNSWORTH
(A'28—M'34—F'39)

Director and Consultant, Farnsworth Television and Radio Corporation, Box 147, Fryeburg, Maine. Born: August 19, 1906, Beaver, Utah.

Morris Liebmann Memorial Prize, 1941, for his
"contributions in the field of applied electronics."

Honorable Mention Citation for Outstanding Young Electrical Engineer, Eta Kappa Nu, 1937; Distinguished Alumni Award, Brigham Young University, 1937; Durward Howes' list of ten most distinguished young men for "America's Young Men," 1940.

Committees: Cathode-Ray and Television Tubes, 1938; High-Frequency Tubes, 1938; Television and Facsimile, 1936–1938; Television, 1939–1941.

CLAIR L. FARRAND
(A'14—M'23—F'31)

President, Farrand Optical Company, Inc., Bronx Blvd., and E. 238 St., New York 66, N.Y. Born: October 22, 1895, Newark, N.J.

JOHN J. FARRELL
(A'43—SM'47—F'48)

Engineer, Transmitter Division, Electronics Department, General Electric Company, Electronics Park, Syracuse, N.Y. Born: March, 1897, Watervliet, N.Y.

Fellow Award, 1948, for his
"contributions to the design of radio and radar transmitters, and for his leadership in the establishing of industry standards."

Committees: RMA–I.R.E.; Co-ordination, 1945–1947; Nominating, 1947.

JOHN F. FARRINGTON
(A'19—M'29—F'31)

Consulting Engineer, Pine Cove, R.F.D.1, Laconia, N.H. Born: January 11, 1895, New York, N.Y. Licensed Professonal Engineer, New York State Education Department, 1931.

Committees: Admissions, 1938–1939; New York Programs, 1939

CARL B. H. FELDMAN
(A'26—VA'39—F'43)

Transmission Research Engineer, Bell Telephone Laboratories, Inc., Murray Hill, N.J. Born: March 26, 1902, St. Peter, Minn. B.S.(E.E.), 1926, M.S.(E.E.), 1928, University of Minnesota.

Fellow Award, 1943, for his
"investigations of the characteristics of radio waves and his developments in antennas and receiving systems."

ROBERT F. FIELD
(A'18—M'20—SM'43—F'47)

Engineer, General Radio Company, 275 Massachusetts Avenue, Cambridge 39, Mass. Born: July, 1885, Tuftonboro, N.H. A.B., 1906, 1907, A.M., Brown University; A.M., Harvard University, 1916.

Fellow Award, 1947,
"as an engineer and physicist, who improved methods and standards in alternating-current measurements."

Committees: Chairman, Boston Section, 1942–1944.

DONALD G. FINK
(A'35—SM'45—F'47)

Editor-in-chief, *Electronics*, 330 West 42nd Street, New York 18, N.Y. Born: November 8, 1911, Englewood, N.J. B.Sc. 1933, Massachusetts Institute of Technology; M.Sc. 1942, Columbia University.

Fellow Award, 1947, in

"recognition of his espousal of high standards of technical publishing and for his wartime contributions in the field of electronic aids to navigation."

Medal of Freedom, War Department, 1946.

Committees: Annual Review, 1945–1947; Awards, 1946–1947; Board of Editors, 1945–1947; Handbook, 1945–1947; Membership, 1945–1947, *chairman*, 1945–1946; Papers, 1940–1945; Papers Review, 1945; Radio Aids to Navigation, 1945–1947, *chairman*, 1945–1947; Research, 1945–1947; Standards, 1945–1947; Television, 1947.

SIR ERNEST T. FISK
(M'15—F'26)

Managing Director, Electric and Musical Industries, Ltd., Blyth Rd., Hayes, Middlesex, England. Born: August 8, 1886, Sunbury-on-Thames, Middlesex, England.

Honorary Member, Institution of Electrical Engineers, London. Vice-President, 1938; Director, 1938.

HENRY C. FORBES
(A'20—M'29—SM'43—F'48)

Vice-President, Colonial Radio Corporation, 1280 Main Street, Buffalo, N.Y. Born: February 27, 1899, Rockland, Mass. B.S., University of Minnesota, 1922; E.E., University of Minnesota, 1923.

Fellow Award, 1948, for his

"contributions as an engineer and executive in the field of home and automobile broadcast receivers and military radio equipment."

Committees: Board of Directors, 1940; Receivers, 1941–1947; Board of Editors, 1946–1947; Public Relations, 1947.

HAROLD T. FRIIS
(A'18—M'26—F'29)

Director of Radio Research, Bell Telephone Laboratories, Inc., Box 107, Red Bank, N.J. Born: February 22, 1893, Naestved, Denmark. E.E., 1916, Dr. Eng., 1938, Royal Technical College, Copenhagen, Denmark.

Morris Liebmann Memorial Prize, 1939, for his

"investigations in radio transmission including the development of methods of measuring signals and noise and the creation of a receiving system for mitigating selective fading and noise interference."

Director, 1941–1943. Committees: Admissions, 1941; Papers, 1941.

LEONARD F. FULLER
(A'14—M'14—F'25)

Co-ordinator of Government Research Contracts, Stanford University, Stanford, Calif. Born: August 21, 1890, Portland, Ore. M.E., Cornell University, 1912; Ph.D., Stanford University, 1919.

Morris Liebmann Memorial Prize, 1919, for his

"contributions to long-distance radio communication."

Manager, 1928. Committees: Admissions, 1928–1929; Sections, 1926–1928; Specifications for Steamship Radio Equipment, 1914; Standardization, 1916–1919; Technical Committee No. 2, Radio Transmitters and Antennas, 1930–1931; Subcommittee on the Establishment of Provisions for Safety of Operating and Other Personnel in Relation to Radio Transmitting Equipment, 1930–1931; Subcommittee on Methods of Testing Apparatus, Equipment, Devices, and Materials Used in Radio Transmitters and Antennas, 1930–1931; Transmitters and Antennas, 1930–1931; Wave Length Regulation, 1916, 1919.

Sections: San Francisco, *chairman*, 1928–1929.

ARCHIBALD J. GILL
(M'20—F'40)

Engineer-in-Chief, Engineering Department, General Post Office, London, E.C. 1, England. Born: May 13, 1889, Stoke-Sub-Hamdon, Somerset, England B.Sc. (Engineering), University of London, 1909.

GLENN D. GILLETT
(A'22—M'27—F'34)

Head, Glenn D. Gillett and Associates, Consulting Radio Engineers, 982 National Press Building, Washington 4, D.C. Born: April 14, 1898, Sterling, Colo. A.B., Harvard College, 1919; S.B. (E.E.), Harvard Engineering School, 1921.

Committees: Broadcast, 1935, 1937; Radio Wave Propagation, 1943–1945; Wave Propagation, 1937–1941, 1943–1944.

PETER C. GOLDMARK
(A'36—M'38—F'42)

Director, Color Television, Columbia Broadcasting System, Inc., 485 Madison Ave., New York 22, N.Y. Born: December 2, 1906, Budapest, Hungary. B.Sc., 1930, Ph.D., 1931, Vienna Technical College, Vienna, Austria.

Fellow Award, 1942, for his

"contributions to the development of practical color television."

Morris Liebmann Memorial Prize, 1945, for his

"contributions to the development of television systems, particularly in the field of color."

Technical Progress Medal, Television Broadcasters Association, 1944.

Committees: Board of Editors, 1941–1947; Television and Facsimile, 1938; Television, 1939–1947.

ALFRED N. GOLDSMITH
(M'12—F'15)

Consulting Engineer, 597 Fifth Ave., New York 17, N.Y. Born: September 15, 1889, New York, N.Y. B.S., College of the City of New York, 1907; Ph.D., Columbia University, 1911; Sc.D., Lawrence College, 1935.

Medal of Honor, 1941, for his

"contributions to radio research, engineering, and commercial development, his leadership in standardization, and his unceasing devotion to the establishment and upbuilding of the Institute and its PROCEEDINGS."

Modern Pioneer Award, National Association of Manufacturers, 1940; Townsend Harris Medal, College of the City of New York, 1942; Medal Award, Television Broadcasters Association, 1945; and other awards.

President, 1928; Junior Past President, 1929–1930; Secretary, 1918–1927; Director, 1913–1947; Editor, 1913–1947. Committees: Admissions, 1925; Awards, *chairman*, 1919; 1930–1933, 1935, 1938; Bibliography, 1934; Board of Editors, *chairman*, 1928–1947; Circuit Elements, 1928; Constitution and Laws, *chairman*, 1936–1940; Electro-Visual Devices, 1933; Executive, 1942–1947; Finance, 1914–1915; Meetings and Papers, 1925–1926; Membership Solicitation Policy, 1945; Nominations, 1929, *chairman*, 1930; 1931, 1936, *chairman*, 1940; Papers, *chairman*, 1913–1919; Special Papers, 1941; Standardization, *secretary*, 1912–1913; *chairman*, 1915; 1916–1936; Television and Facsimile, 1936–1938; Tellers, *chairman*, 1932; Wave Length Regulation, 1916, 1919.

Institute Representative: National Advisory Council on Radio in Education, 1932, 1936–1937, 1939–1940; Committee on Engineering Developments, 1941–1943; National Television System Committee, 1941–1943, Panel 2, 1942–1943; Executive Committee of the Sectional Committee on Radio, American Engineering Standards Committee (now American Standards Association) *secretary*, 1926; ASA Sectional Committee on Radio, *chairman*, 1936–1937, 1939–1945; ASA Standards Council, 1931–1932, 1936–1937, 1939–1945; ASA War Standards Committee on Radio, 1943–1945; Subcommittee on Insulating Material Specifications for the Military Services, *chairman*, 1943–1945.

VIRGIL M. GRAHAM
(A'24—M'27—F'35)

Director of Technical Relations, Sylvania Electric Products Inc., 40–22 Lawrence St., Flushing, L.I., N.Y. Born: January 22, 1902, Rochester, N.Y. University of Rochester.

Director, 1935–1941, 1946–1947. Committees: Awards, 1940–1947; Constitution and Laws, 1940, 1944; Meetings and Papers, 1928–1929; Membership, *ex officio*, 1927; Nominations, 1940; Papers Procurement, 1942–1943, 1946; Power Supply, 1928; Publicity, 1935–1936; Public Relations, *chairman*, 1940, 1947; Radio Receivers, 1930–1931, 1933, 1936–1940; Definitions, 1938; Receiving Sets, 1927–1928; Regular Papers, 1941; Sections, 1930–1934, *chairman*, 1936–1937; 1938–1945; Standardization: Technical Committee No. 1, Radio Receivers and Parts, *chairman;* Subcommittee on Aircraft Receivers, *chairman*, 1930–1931; Standards, 1930–1931, 1933, 1935–1943, 1946–1947.

Sections: Rochester, *chairman*, 1926–1927.

Institute Representative: American Standards Association, Sectional Committee on National Electrical Safety Code, Subcommittee on Article 810, Radio Broadcast Reception Equipment, *Alternate*, 1937, 1939–1945.

ALFRED L. GREEN
(A'28—F'38)

Officer-in-Charge, Ionospheric Prediction Service of The Commonwealth Observatory, Mt. Stramlo, Canberra, A.C.T., N.S.W., Australia. Born: February 3, 1905, London, England. B.Sc., King's College, University of London, 1926; M.Sc., King's College, University of London, 1929; Ph.D., University of London, 1934.

GILBERT E. GUSTAFSON
(A'27—M'38—F'40)

Vice-President in Charge of Engineering, Zenith Radio Corporation, 6001 Dickens Ave., Chicago 39, Ill. Born: November 15, 1905, Rock Island, Ill.

Director, 1943. Committees: Admissions, 1943; Awards, 1942; Board of Editors, 1944.

RAYMOND F. GUY
(A'25—M'31—F'39)

Manager, Radio and Allocation Engineering, National Broadcasting Company, 30 Rockefeller Plaza, New York 20, N.Y. Born: July 4, 1899, Hartford, Conn. I.E.E., Pratt Institute, 1921.

Treasurer, 1947. Director, 1944–1947. Committees: Annual Review, 1943–1946; Antennas, *chairman*, 1938; 1946–1947; Broadcasting, 1929–1932; Constitution and Laws, *chairman*, 1945–1946; 1947; Education, 1946; Executive, 1946–1947; *treasurer and vice-chairman*, 1947; Frequency Modulation, 1942–1946; Membership, 1947; Modulation Systems, 1947; Standards, 1942–1946; Transmitters and Antennas, 1933, 1936–1942; *chairman*, 1943–1945.

RALPH A. HACKBUSCH
(A'26—M'30—F'37)

Vice-President and Managing Director, Stromberg-Carlson Company, Ltd., 211 Geary Ave., Toronto 4, Ont., Canada. Born: September 18, 1900, Hamilton, Ont., Canada.

Vice-President, 1944. Director, 1938, 1944–1946. Committees: Admissions, *ex officio*, 1930–1931; 1940; Awards, 1947; Membership, *ex officio*, 1930–1931; Public Relations, 1940, 1947; Sections, *ex officio*, 1932–1933; 1936–1937.

Sections: Toronto, *secretary*, 1930–1931; *chairman*, 1932–1933.

HENRY E. HALLBORG
(F'45)

Research Engineer, RCA Laboratories Division, Radio Corporation of America, 66 Broad St., New York 4, N.Y. Born: April, 1884, Stockholm, Sweden. B.Sc. in E.E., Brown University, 1907.

Committees: Constitution and Laws, 1928–1932; Radio Transmitters and Antennas, 1930–1931; Standardization, 1930–1931; Subcommittee on the Establishment of Provisions for Safety of Operating and other Personnel in Relation to Radio Transmitting Equipment, *chairman*, 1930–1931; Subcommittee on Methods of Testing Apparatus, Equipment, Devices, and Materials Used in Radio Transmitters and Antennas, 1930–1931; Transmitters and Antennas, 1933.

CLARENCE W. HANSELL
(A'26—M'29—SM'43—F'45)

Research Supervisor, Transmission, RCA Laboratories Division, Radio Corporation of America, 66 Broad St., New York, 4, N.Y. Born: January 20, 1898, Medaryville, Ind. B.S.(E.E.), Purdue University, 1919.

Joint Modern Pioneer Award, National Association of Manufacturers, 1940.

Fellow Award, 1945, for his

"pioneer work in the development and application of equipment for the ever higher frequencies employed for radio communication."

WILLIAM H. HANSEN
(J'28—A'32—VA'39—F'47)

Electrical Technician, Ampro Corporation, 2845 N. Western Avenue, Chicago, Ill. Born: July 29, 1909. Chicago, Ill. Two years at the Louis Institute, Electrical Engineering.

Fellow Award, 1947, in

"recognition of his many contributions to the theory of tubes, networks, circuits and antennas."

OSCAR B. HANSON
(A'18—M'27—F'41)

Vice-President and Chief Engineer, National Broadcasting Company, 30 Rockefeller Plaza, New York 20, N.Y. Born: February 11, 1894, Huddersfield, Yorkshire, England.

Director, 1938–1943. Committees: Meetings and Papers, 1929; Nominations, 1944–1945; Papers, 1942–1945; Papers Procurement, 1942–1943; Papers Review, 1946–1947; Public Relations, 1940–1946; Regular Papers, 1941; Standardization, 1929; Tellers, *chairman*, 1941.

DANIEL E. HARNETT
(A'25—M'35—F'42)

Harnett Electric Corporation, Port Washington, L.I., N.Y. Born: July 20, 1899, Elmira, N.Y. A.B., 1922, E.E., 1925, Columbia University.

Fellow Award, 1942, in

"recognition of his outstanding direction of radio engineering activities."

Committees: Admissions, 1941–1943; Awards, 1945–1946; New York Program, 1940; Papers Procurement, 1947; Radio Receivers, 1936–1941; Standardization: Technical Committee No. 3, Vacuum Tubes, 1930–1931.

RALPH V. L. HARTLEY
(M'19—F'28)

Research Consultant, Bell Telephone Laboratories, Inc., Murray Hill, N.J. Born: November 30, 1888, Spruce, Nev. A.B., University of Utah, 1909; B.A., 1912, B.Sc., 1913, Oxford University.

Medal of Honor, 1946, for his

"early work on oscillating circuits employing triode tubes and likewise for his early recognition and clear exposition of the fundamental relationship between the total amount of information which may be transmitted over a transmission system of limited bandwidth and the time required."

Committees: Sections, 1945.

LESLIE W. HAYES
(F'38)

Head of Overseas and Engineering Information Department, British Broadcasting Corporation, Broadcasting House, London, W. 1, England. Born: May 31, 1896, London, England.

ALAN HAZELTINE
(A'16—M'18—F'21)

Consulting Engineer, 15 Tower Drive, Maplewood, N.J. Born: August 7, 1886, Morristown, N.J. M.E., 1906, Honorary Sc.D., 1933, Stevens Institute of Technology; A.M., Columbia University, 1938.

Armstrong Medal, Radio Club of America, 1937.

President, 1936; Manager, 1923–1928; Director, 1936, 1939; Past-President Director, 1937–1938. Committees: Admissions, 1925–1927; Awards, *chairman*, 1937; 1938; Education, 1945–1947; Meetings and Papers, 1925, 1927; New York Program, 1935; Standardization, 1925–1927.

Institute representative: Radio Advisory Committee, Bureau of Standards, Department of Commerce, 1926–1927; American Engineering Standards Committee (now American Standards Association) Sectional Committee on Preferred Numbers, 1927; Sectional Committee on Radio, 1927–1928.

RALPH M. HEINTZ
(A'21—M'27—F'30)

Vice-President in Charge of Engineering and Aircraft Manufacturing, Jack and Heintz Precision Industries, Inc., 17600 Broadway, Maple Heights, Ohio. Born: April 20, 1892, St. Louis, Mo. A.B., Stanford University, 1920.

Committees: Admissions: *ex officio*, 1931; Membership, 1938–1940; New York Program, 1938; Sections, *ex officio*, 1931–1932; 1938–1940.

Sections: San Francisco, *chairman*, 1931–1932.

RAYMOND A. HEISING
(A'20—F'23)

Patent Engineer, Bell Telephone Laboratories, Inc., 463 West St., New York 14, N.Y. Born: August 10, 1888, Albert Lea, Minn. E.E., University of North Dakota, 1912; M.S., University of Wisconsin, 1914.

Morris Liebmann Memorial Prize, 1921, in

"recognition of the publication of his basic work in the field of the signal modulation of an oscillator output, and in particular of his invention and development of constant-current modulation as first applied to radiotelephony."

President, 1939; Treasurer, 1943–1945; Manager, 1927–1931; Director, 1933–1935, 1939–1941, 1943–1945, 1947.

Committees: Admissions, 1927; *chairman*, 1928–1930; *vice-chairman*, 1931; 1933, 1935–1938; Constitutions and Laws, 1930–1934, 1941–1942, 1946–1947; *chairman*, 1943–1944; 1945; Executive, *vice-chairman*, 1943–1945; Investments, *chairman*, 1944–1945, 1946; Meetings and Papers, 1926; Membership Solicitation Policy, 1945; New York Program, 1933, 1935–1937; Nominations, 1933, *chairman*, 1941; Office Quarters, *chairman*, 1946; Planning, *chairman*, 1946; Preparedness, 1941; Sections, *chairman*, 1941–1945; 1946–1947; Standardization, 1925.

KEITH HENNEY
(A'18—M'26—SM'43—F'43)

Editor-in-Chief, *Nucleonics;* Consulting Editor, *Electronics*, McGraw-Hill Publishing Company, Inc., 330 W. 42 St., New York 18, N.Y. Born: October 28, 1896, McComb, Ohio. A.B., Western Reserve University, 1921; A.M., Harvard University, 1925.

Fellow Award, 1943, in

"recognition of his accomplishments in obtaining publication of the technical information essential to the radio engineer."

Director, 1945–1947. Committees: Annual Review, 1937–1947; Awards, 1945–1946; Executive, 1946–1947; Membership Solicitation Policy, 1945; New York Program, 1934–1941, *chairman*, 1942; Planning, 1946; RMA–I.R.E. Co-ordinating, 1947; Public Relations, 1943–1947; Publicity, 1937–1939; Standards, 1946–1947.

EDWARD W. HEROLD
(A'30—M'38—SM'43—F'48)

Section Head, RCA Laboratories Division, Radio Corporation of America, Princeton, N.J. Born: October 15, 1907, New York, N.Y. B.Sc. University of Virginia, 1930; M.Sc. Polytechnic Institute of Brooklyn, 1942.

Fellow Award, 1948, for his

"contributions to theory and design in the field of vacuum tubes."

Committees: Membership, 1942; Papers Review, 1944–1945; Board of Editors, 1945–1947; Winter Technical Meeting, 1945.

WILLIAM R. HEWLETT
(S'35—A'38—M'47—F'48)

Vice-President, Hewlett-Packard Company, 395 Page Mill Road, Palo Alto, Calif. Born: May 20, 1913, Ann Arbor, Mich., A.B., Stanford University, 1934; M.S., Massachusetts Institute of Technology, 1936; E.E., Stanford University, 1939.

Fellow Award, 1948, for his

"initiative in the development of special radio measuring technique."

Committee: Program Chairman, San Francisco Section, 1947.

FRANK A. HINNERS
(M'15—F'26)

Commercial Engineer, Servo Corporation of America, 394 N. Fulton Ave., Lindenhurst, L.I., N.Y. Born: February 19, 1894. New York, N.Y. Electrical Pratt Institute, 1915.

Charter Member, Wireless Institute,

Committees: New York Program, 1941–1942; Radio Receivers. 1933.

JOHN V. L. HOGAN
(M'12—F'15)

President, Interstate Broadcasting Company, Inc., President, Radio Inventions, Inc., 730 Fifth Ave., New York 19, N.Y. Born: February 14, 1890, Philadelphia, Pa.

President, 1920; Vice-President, 1916–1919; Manager, 1913–1915, 1921–1932; Director, 1916–1920, 1932–1936. Committees: Admissions, 1927; Awards, 1919, *chairman*, 1928; 1932–1933, 1945; Annual Review, 1937, 1947; Broadcasting, 1930–1937; Constitutional Amendments, *chairman*, 1915; Constitution and Laws, 1928–1929, *chairman*, 1932–1933; 1934–1936; Editing, *chairman*, 1914; Electro-Visual Devices, *chairman*, 1933; Facsimile, 1939–1946, *chairman*, 1947; Finance, 1915; Financial Matters, 1915; Increase of Membership, *chairman*, 1916; 1917–1919; Nominations, 1931, 1937–1938, 1943–1944, *chairman*, 1945; Papers, 1915–1919, 1942–1945; Papers Procurement, 1947; Papers Review, 1946; Professional Recognition, 1947; Publicity, *chairman*, 1913; 1914, *chairman*, 1915; 1916–1919; Receiving Sets, 1927–1928; Revision of the Constitution, 1925–1926; San Francisco Representation, 1915; Sections, 1925; Specifications for Steamship Radio Equipment, 1914; Standardization, 1912–1913, 1915, *chairman*, 1916–1919; 1920–1929; Standards, 1932–1933, 1936–1938, 1947; Television and Facsimile, *chairman*, 1936–1937; 1938; Use of the Transmission Unit, *chairman*, 1928; Wave Length Regulation, 1916, 1919.

Institute Representative: Fourth National Radio Conference, 1926; American Engineering Standards Committee (now American Standards Association), Sectional Committee on Radio, 1927–1932; Sectional Committee on Radio-Electrical Co-ordination, 1926–1937, 1939–1945; Sectional Committee on Electrical Installations on Shipboard, 1927–1932, 1936–1937.

LAWRENCE C. F. HORLE
(A'14—M'23—F'25)

Chief Engineer, Radio Manufacturers Association, 1317 F St., N.W., Washington, D.C. Born: May 27, 1892, Newark, N.J. M.E., Stevens Institute of Technology, 1914.

Medal of Honor, 1948, for his

"contributions to the radio industry in standardization work, both in peace and war, particularly in the field of electron tubes, and for his guidance of a multiplicity of technical committees into effective action."

President, 1940; Director, 1934, 1936–1942, 1944–1946. Committees: Admissions, *ex officio*, 1929; 1934–1939, 1942; Constitution and Laws, 1942; Meetings and Papers, 1929; Membership, 1925, 1934; Membership Solicitation Policy, 1945; New York Program, 1933–1934; Nominations, 1934, 1941, 1943, 1947; Publicity, *ex officio*, 1929; Receiving Sets, 1927–1928; RMA–I.R.E. Co-ordinating, 1947; Sections, 1928, *ex officio*, 1929; 1936–1937, 1941–1942; Standards, *chairman*, 1936–1938; 1939, 1941–1947.

Sections: Buffalo-Niagara, *chairman*, 1927–1929.

CHARLES W. HORN
(A'14—M'28—F'30)

Calle Rincon Del Bosque 2, Colonia Anzures, Mexico, D.F., Mexico. Born: July 9, 1894, New York, N.Y.

Director, 1933–1934. Committees: Admissions, 1933–1937, 1940–1942; Broadcasting, 1928–1931; Broadcast, 1932–1937; New York Program, 1932, *chairman*, 1933; 1934; Public Relations, 1945–1946; Sections, 1929–1930, *chairman*, 1931–1932; 1933; Television and Facsimile, 1936–1938.

Institute Representative: Committee for Observance of Decennial of Commercial Broadcasting, 1931–1932; National Advisory Council on Radio in Education, 1932, 1936–1940; National Advisory Council on Radio in Education, Committee on Engineering Developments, 1941–1943.

J. WARREN HORTON
(A'20—F'29)

Associate Professor of Electrical Communication, Massachusetts Institute of Technology, 77 Massachusetts Ave., Cambridge 39, Mass. Born: December 18, 1889, Ipswich, Mass. S.B., 1914, Sc.D., 1935, Massachusetts Institute of Technology.

Committees: Awards, 1932; Board of Editors, 1930–1931, 1935–1940; Meetings and Papers, 1929, *chairman*, 1930; Membership, 1947; Standardization, *chairman*, 1931–1932; Standards, *chairman*, 1933; Technical Committee No. 3, Vacuum Tubes, 1930–1931.

Institute Representative: United States National Committee, Advisers on Symbols (International Electrotechnical Committee), 1932, 1936–1937, 1940–1945.

ALBERT W. HULL
(M'41—SM'43—F'44)

Assistant Director, Research Laboratory, General Electric Company, 1 River Rd., Schenectady 5, N.Y. Born: April 19, 1880, Southington, Conn. A.B., 1905, Ph.D., 1909, Yale University; Honorary Sc.D., Union University, 1930; Sc.D., Middlebury College, 1931; D.Eng., Worcester Polytechnic Institute, 1944.

Morris Liebmann Memorial Prize, 1930, in

"recognition of the many advances in vacuum tube development which were due to his fundamental researches in the field of electronics."

Fellow Award, 1944, for his

"many contributions to the development and design of electron tubes both for radio and industrial applications."

Howard N. Potts Medal, Franklin Institute, 1923.

DAVID R. HULL
(A'36—F'47)

Captain, United States Navy, Assistant Chief of Electronics, Bureau of Ships, Navy Department, Washington 25, D.C. Born: October, 1903, Newton, N.J. B.S. United States Naval Academy, 1925; M.S. Harvard University, 1933.

Fellow Award, 1947, for his

"contributions in developing a program utilizing electronic advances in military equipment and tactics."

Legion of Merit; Navy Commendation Ribbon.

Committees: Electron Tube, 1945–1947; Electronics, 1943–1944.

LEWIS M. HULL
(J'17—A'19—M'27—F'28)

President, Aircraft Radio Corporation, 708 Main St., Boonton, N.J. Born: February 27, 1898, Great Bend, Kan. A.B., 1917, A.M., 1918, University of Kansas; Ph.D., Harvard University, 1922.

President, 1933; Junior Past President, 1934–1935; Manager, 1929–1932; Director, 1932–1935. Committees: Admissions, 1927–1928; Awards, *chairman*, 1935; 1936–1937; Broadcasting, *chairman*, 1928–1931; Broadcast, 1932; Meetings and Papers, 1928–1930; New York Programs, 1931; Nominations, 1928–1931, *chairman*, 1934; 1935; Papers, 1931; Standardization, 1927–1928; Receiving Sets, 1927–1928; Use of the Transmission Unit, 1928.

Institute Representative: Radio Advisory Committee, Bureau of Standards, Department of Commerce, 1928–1932, 1936–1937; American Engineering Standards Committee (now American Standards Association), Sectional Committee on Radio, 1928; ASA Sectional Committee on Radio, 1929–1932; National Advisory Council on Radio in Education, 1932, 1936–1937, 1939–1940; National Advisory Council on Radio in Education, Committee on Engineering Developments, 1941–1943.

AUGUST HUND
(M'16—F'27)

Consulting Engineer, 718 Adelaide Pl., Santa Monica, Calif. Born: December 17, 1887, Offenburg, Baden, Germany. E.E., 1911, Eng.D., 1913, Technische Hochschule, Carlsruhe, Germany; graduate work, University of California.

Committees: Sections, *ex officio*, 1945; Electro-Acoustic Devices, 1927–1928.

Sections: San Diego, *acting chairman*, 1945.

FREDERICK V. HUNT
(A'28—M'41—SM'43—F'47)

Gordon McKay Professor of Applied Physics, 222 Lyman Laboratory, Harvard University, Cambridge 38, Mass. Born: February 15, 1905, Barnesville, Ohio. B.A. and B.E.E., Ohio State University, 1924 and 1925; A.M., Ph.D. S.D.(Honorary), Harvard University, 1928, 1934, and 1945.

Fellow Award, 1947, for his

"work as a scientist, teacher, and administrator and his contributions to acoustics."

Committee: Electroacoustics 1944, 1947; Papers 1943–1945; Papers Procurement, 1943–1947; Papers Review, 1945–1947.

JOHN A. HUTCHESON
(A'28—M'30—SM'43—F'48)

Associate Director of Research, Westinghouse Research Laboratories, East Pittsburgh, Pa. Born: January, 1905, Park River, N.Dak. B.S., 1926, Honorary D.Sc., 1943, University of North Dakota.

Fellow Award, 1948, for his

"contributions and technical directions of work in radio research."

Committees: Board of Editors, 1946–1947; Nuclear Studies, 1947; Technical Program, 1947.

Sections: Connecticut Valley, *chairman*, 1935–1936; Pittsburgh, *chairman*, 1945–1946, *regional director*, 1947.

DORMAN D. ISRAEL
(A'23—M'30—F'42)

Vice-President in Charge of Engineering and Production, Emerson Radio and Phonograph Corporation, 111 Eighth Ave., New York 11, N.Y. Born: July 21, 1900, Newport, Ky. E.E., University of Cincinnati, 1923.

Fellow Award, 1942, in

"recognition of his contributions to the engineering of broadcast receivers."

Committees: Admissions, *ex officio*, 1931; Awards, 1943–1944, 1947; Membership, 1941; New York Program, 1940–1941; Nominations, 1946; Papers, 1940–1941; Papers Procurement, *chairman*, 1942–1945, Public Relations, 1940–1944, *general chairman*, 1946, *chairman*, 1947,; Radio Receivers, 1938–1941; Regular Papers, *chairman*, 1941; RMA–I.R.E. Co-ordinating, 1947; Sections, *ex officio*, 1931–1932; Television and Facsimile, 1936–1937.

Sections: Cincinnati, *chairman*, 1931–1932.

C. M. JANSKY, JR.
(A'18—M'25—F'28)

Partner, Jansky and Bailey, National Press Building, Washington 4, D.C. Born: June 28, 1895, Delton, Mich. B.A., 1917, M.A., 1919, University of Wisconsin.

President, 1934; Senior Past President, 1935; Junior Past President, 1936; Manager, 1929–1932; Director 1932–1942. Committees: Admissions, 1929–1930, *chairman*, 1931; 1932–1933, *chairman*, 1936–1937; 1938–1940; Awards, 1942; Board of Editors, 1941–1947; Broadcasting, 1931–1933; Broadcast, 1935–1936, *chairman*, 1937; Constitution and Laws, 1932–1933, *ex officio*, 1934; 1941; Education, 1944; Frequency Modulation, 1941–1945; Membership, 1925, 1927–1928, 1941–1943; Nominations, 1936, *chairman*, 1937; 1938, *chairman*, 1939; 1940–1942, 1945; Preparedness, 1941, 1945; Publicity, 1936; Public Relations, 1946; Radio Receivers, 1927–1928; Sections, 1925; Standardization, 1926, 1928, 1930–1933; Use of the Transmission Unit, 1928.

Institute Representative: American Documentation Institute, 1939–1943; First National Conference on Educational Broadcasting, 1937; American Council on Education, Planning Committee, National Conference on Educational Broadcasting, 1936–1937, 1939–1943; U.R.S.I. (International Scientific Radio Union) Executive Committee, 1936–1937, 1939–1945; ASA Sectional Committee on Radio-Electrical Co-ordination, 1936–1937, 1939–1945.

KARL G. JANSKY
(A'28—M'24—SM'43—F'47)

Radio Research Engineer, Bell Telephone Laboratories, Inc. P.O. Box 107, Red Bank, N.J. Born: October 22, 1905, Norman, Okla. A.B., 1927 and A.M., 1936 University of Wisconsin.

Fellow Award, 1947, for his

"researches in the realm of cosmic and circuit noise affecting radio communication."

Committees: Technical Program, I.R.E. Annual Convention, 1946–1947.

Sections: New York, 1946–1947; Monmouth County Subsection, *chairman*, 1946–1947.

KENNETH W. JARVIS
(A'24—M'27—F'34)

Consulting Engineer, 1140 Cherry St., Winnetka, Ill. Born: October 18, 1901, Mansfield, Ohio. B.E.E., Ohio State University, 1923.

Committees: Radio Receivers and Parts, 1930–1931; Radio Receivers, 1947; Receiving Sets, 1927–1928.

AXEL G. JENSEN
(A'23—M'26—F'42)

Television Research Engineer, Bell Telephone Laboratories, Inc., 463 West St., New York 14, N.Y. Born: February 17, 1896, Copenhagen, Denmark. E.E., Royal Technical College, Copenhagen, 1920; post graduate, Columbia University, 1921–1922.

Fellow Award, 1942, for his

"constructive participation in the development of the short wave transatlantic telephone, the development of broadband, multi-channel telephony, and the art of television."

Committees: Television, 1946–1947; Television and Facsimile, 1938–1945.

EWELL K. JETT
(A'29—M'38—F'39)

Commissioner, Federal Communications Commission, New P.O. Bldg., Washington, D.C. Born: March 20, 1893, Baltimore, Md.

Director, 1938. Committees: Public Relations, 1945–1946; Sections, *ex officio*, 1935–1936.

Section: Washington, *chairman*, 1935–1936.

FRANK B. JEWETT
(F'20)

President, National Academy of Sciences, Retired. Born: September 5, 1879, Pasadena, Calif. A.B., Throop Polytechnic Institute, 1898; Ph.D., University of Chicago, 1902; D.Sc., New York University, 1925; D.Sc., Dartmouth College, 1925; D.Sc., Columbia University, 1927; D.Sc., University of Wisconsin, 1927; D.Sc., Rutgers University, 1928; D.Eng., Case School of Applied Science, 1928; D.Sc., University of Chicago, 1929; LL.D., Miami University, 1932; D.Sc., Harvard University, 1936; LL.D., Rockford College, 1939; D.Sc., University of Pennsylvania, 1940; LL.D., Norwich University, 1944.

Distinguished Service Medal, U.S. Government Congressional Award, 1919; Edison Medal, American Institute of Electrical Engineers, 1928; Faraday Medal, Institution of Electrical Engineers, 1935; Franklin Medal, Franklin Institute, 1936; Washington Award, Western Society of Engineers, 1938; John Fritz Medal, John Fritz Medal Board, 1939.

CHARLES B. JOLLIFFE
(M'25—F'30)

Executive Vice-President in Charge of RCA Laboratories Division, Radio Corporation of America, Princeton, N.J. Born: November 13, 1894, Mannington, W.Va. B.S., 1915, M.S., 1920, West Virginia University; Ph.D., Cornell University, 1922; LL.D., West Virginia University, 1942.

Director, 1936–1937, 1944. Committees: Admissions, *ex officio*, 1929; 1938; Awards, 1942; Bibliography, 1930–1932; Broadcast, 1932, 1936–1937; Electro-Visual Devices, 1933; Frequency Modulation, 1941; Meetings and Papers, 1930; Nominations, 1937, 1941; Preparedness, 1941; Receiving Sets, 1927; Vacuum Tubes, 1927–1928; Sections, *ex officio*, 1929–1930; Television and Facsimile, 1936–1938; Standardization, 1925–1926, *chairman*, 1928–1931; Vacuum Tubes, 1927–1928, *chairman*, 1930.

Sections: Washington, *chairman*, 1929–1930.

Institute Representative: First National Conference on Educational Broadcasting, 1937; American Council on Education, Planning Committee, National Conference on Educational Broadcasting, 1936–1937, 1939–1943; American Engineering Standards Committee (now American Standards Association), Technical Committee, Vacuum Tubes, *chairman*, 1926.

IRA J. KAAR
(J'22—A'24—M'29—F'41)

Manager, Receiver Division, General Electric Company, Electronics Park, Syracuse, N.Y. Born: October 17, 1902, Dunsmuir, Calif. B.S.(E.E.), University of Utah, 1924.

Director, 1939. Committees: Admissions, 1940; Annual Review, 1940–1945; Awards, 1947; Methods of Testing Apparatus, Equipment, and Devices, 1931; Public Relations, 1940, 1942; Radio Transmitters and Antennas, 1931; Standards, 1940–1945, Television, 1939, *chairman*, 1940–1945; 1947.

EDUARD KARPLUS
(A'31—F'38)

Engineer, General Radio Company, 275 Massachusetts Ave., Cambridge 39, Mass. Born: September 7, 1899, Moedling, Austria. Ingenieur, Technische Hochschule, Vienna, Austria, 1923.

RAY D. KELL
(A'35—F'47)

Head, Television Section, RCA Laboratories Division, Radio Corporation of America, Princeton, N.J. Born: June 7, 1904, Kell, Ill. B.S. in E.E., University of Illinois, 1926.

Fellow Award 1947, for his
"extensive contributions, over many years, to television for both civilian and military use."

Modern Pioneer Award, National Association of Manufacturers, 1940.

Committees: Television 1943, 1947.

MERVIN J. KELLY
(M'25—F'38)

Executive Vice-President, Bell Telephone Laboratories, Inc., 463 West St., New York 14, N.Y. Born: February 14, 1894, Princeton, Mo. B.S., Missouri School of Mines and Metallurgy, 1914; M.S., University of Kentucky, 1915; Ph.D., University of Chicago, 1918; D.Eng., University of Missouri, 1936.

Committees: Symbols, *chairman*, 1933; Vacuum Tubes, 1927–1928, 1930.

Institute Representative: American Engineering Standards Committee (now American Standards Association), Technical Committee, Vacuum Tubes, 1927–1928; ASA Technical Committee, Vacuum Tubes, 1929–1930.

JOHN E. KETO
(A'36—SM'46—F'48)

Chief Aircraft Radiation Laboratory, Wright Field, Dayton, Ohio. Born: June 9, 1909, Maynard, Mass. E.E., University of Cincinnati, 1932; M.S., University of Cincinnati, 1935.

Fellow Award, 1948, for his
"contributions to the development of electronic equipment for military purposes."

Sections: Dayton, *chairman*, 1946–1947.

HAROLD L. KIRKE
(M'25—SM'43—F'45)

Head of Research Department, British Broadcasting Corporation, Broadcasting House, London, W. 1, England. Born: January 7, 1895, London, England.

Fellow Award, 1945, for his
"services to broadcasting in the British Isles and in particular for his leadership in the research activities of the British Broadcasting Corporation."

HUGH S. KNOWLES
(A'25—F'41)

Vice-President and Chief Engineer, Jensen Manufacturing Company, 6601 S. Laramie Ave., Chicago 38, Ill.; President and Director of Research, Industrial Research Products, 9400 Belmont Ave., Franklin Park, Ill. Born: September 23, 1904, Hines, Iowa. A.B., Columbia University, 1927.

Fellow Award, 1941, for
"engineering leadership in the field of acoustics and its radio applications."

Committees: Annual Review, 1938–1941; Board of Editors, 1945–1946; Electroacoustics, 1936–1937, *chairman*, 1938–1941; 1946–1947; Papers, 1941; Papers Procurement, 1942–1943; Regular Papers, 1941; Sections, *ex officio*, 1934–1935; Standards, 1938–1941; Symbols, 1940–1941, 1943–1947.

Sections: Chicago, *chairman*, 1934–1935.

FREDERICK A. KOLSTER
(A'12—M'13—F'16)

Consulting Engineer, c/o Bohemian Club, Post and Taylor Sts., San Francisco, Calif. Born: January 13, 1883, Geneva, Switzerland.

Director, 1933–1935. Committees: Admissions, 1935–1936; Membership, 1930–1932; Nominations, 1933; Papers, 1913; Sections, 1933, Standardization, 1914–1921, 1925, 1927–1931; Subcommittee on Marine and Direction-Finding Receivers, *chairman*, 1930–1931; Wave Length Regulation, 1916; Wave Propagation, 1937–1938.

FREDERICK R. LACK
(A'20—F'37)

Vice-President, Western Electric Company, Inc., 120 Broadway, New York 5, N.Y. Born: July 18, 1895, Eastbourne, England. S.B., Harvard University, 1925.

Director, 1940, 1946–1947. Committees: Awards, 1941; Board of Editors, 1946; Electronics, 1936–1940; Executive, 1947; Fiscal, 1947; Gas-Filled Tubes, *chairman*, 1938; Membership Solicitation Policy, *chairman*, 1945; Office Practices, 1947; Papers, 1942–1945; Special Publication Fund, *chairman*, 1947.

Institute Representative: American Standards Association Board of Directors, 1945.

HORATIO W. LAMSON
(A'15—M'27—F'33)

Engineer, General Radio Company, 275 Massachusetts Ave., Cambridge, Mass. Born: January 2, 1893, Somerville, Mass. S.B., Massachusetts Institute of Technology, 1915; A.M., Harvard University, 1917.

Committees: Sections, *ex officio*, 1937–1939.

Sections: Boston, *chairman*, 1937–1939.

RALPH H, LANGLEY
(A'12—M'16—F'29)

Vice-President in Charge of Engineering, Olympic Radio and Television, Inc., 34–01 38 Ave., Long Island City, L.I., N.Y. Born: January 5, 1889, New York, N.Y. E.E., Columbia University, 1913.

Committees: Admissions, *ex officio*, 1929–1931; 1945; Awards, 1934; Bibliography, 1930–1932; New York Program, 1934; Publicity, *ex officio*, 1929; Radio Telegraph Receiver Terminology, *chairman*, 1924–1925; Registration of Engineers, 1941; Sections, *ex officio*, 1929; 1930–1933, 1935; Standardization, 1924–1927, Technical Committee No. 1, Radio Receivers and Parts, 1930–1931, 1933; Standards, 1934–1935; Wave Length Regulation, 1916.

Sections: Cincinnati, *chairman*, 1929–1931.

SIR GEORGE LEE
(M'27—F'29)

Lieutenant Colonel, retired, Chedsworth, Chalfont St. Giles, Bucks., England. Born: May 24, 1879, Conway; North Wales. B.Sc.(Engineering), University of London, 1903.

Medal of Honor, 1939, for his
"accomplishments in promoting international radio services and in fostering advances in the art and science of radio communication."

Committees: Admissions, 1930.

PENDLETON E. LEHDE
(A'14—F'27)

President, Electron Engineering Company, 1050 Constance St., New Orleans 13, La. Born: October 2, 1892, New Orleans, La. B.E., 1914, M.E.E., 1926, Tulane University.

Committees: Admissions, *ex officio*, 1929; Membership, 1927–1929; Publicity, *ex officio*, 1929; Sections, 1928, *ex officio*, 1929–1933.

Sections: New Orleans, *chairman*, 1928–1933.

NILS E. LINDENBLAD
(M'34—SM'43—F'48)

Research Engineer, RCA Laboratories Division, Radio Corporation of America, Rocky Point, N.Y. Born: October 30, 1895, Norrkoping, Sweden. M.E., Norrkoping Polytechnic Institute, 1915; Royal Institute of Technology, Stockholm, 1916–1919.

Fellow Award, 1948, for his
"many contributions to the theory and design of transmitting antennas and related equipment."

Modern Pioneer Award, National Association of Manufacturers, 1940; RCA Laboratories Award for Pioneering in Slot Antennas, Radio Corporation of America, 1947.

Committees: Antenna Subcommittee, 1940.

WILLIAM W. LINDSAY, JR.
(A'24—M'26—F'39)

Assistant Chief Engineer and Chief of Design, Gilfillan Brothers, Inc., 1815–49 Venice Blvd., Los Angeles 6, Calif. Born: November 16, 1899, Overbrook, Pa. Privately educated, equivalent "Doktor Ingenieur" degree.

Committees: Membership, *ex officio*, 1929; Nominations, 1942; Sections, *ex officio*, 1940–1941; Transmitters, 1946.

Sections: Los Angeles, *secretary*, 1928–1929, *chairman*, 1940–1941.

DONALD G. LITTLE
(A'20—M'27—F'29)

Assistant Engineering Manager and Consulting Engineer, Electronics Division, Westinghouse Electric Corporation, 2519 Wilkens Ave., Baltimore 3, Md. Born: May 17, 1893, Kalamazoo, Mich. B.S.(E.E.), University of Michigan, 1917.

Committees: Board of Editors, 1944–1947; Meetings and Papers, 1928–1929; Standardization, Technical Committee No. 2, Radio Transmitters and Antennas, 1930–1931; Subcommittee on Nomenclature, Symbols, and Definitions, 1930–1931; Subcommittee on Methods of Testing Apparatus, Equipment, Devices, and Materials Used in Radio Transmitters and Antennas, 1930–1931; Standardization, 1931–1932; Standards, 1933; Transmitters and Antennas, 1933, 1936–1938; Subcommittee on Transmitters, *chairman*, 1938.

CHARLES V. LITTON
(A'25—SM'44—F'47)

President, Litton Industries Inc., P.O. Box 249, San Carlos, Calif. Born: March 13, 1904, San Francisco, Calif. A.B., 1924, E.E., 1925, Stanford University.

Fellow Award, 1947, for his
"contributions to theory and practice in the field of high vacuum techniques, including processes and precision devices for the production of electron tubes."

Committees: Papers, 1946–1947; Papers Review, 1945.

Sections: San Francisco, *chairman*, 1932.

FREDERICK B. LLEWELLYN
(A'23—F'38)

Consulting Engineer, Bell Telephone Laboratories, Inc., 463 West St., New York 14, N.Y. Born: September 16, 1897, New Orleans, La. M.E., Stevens Institute of Technology, 1922; Ph.D., Columbia University, 1928.

Morris Liebmann Memorial Prize, 1935, for his
"analysis and disclosures of the effects and reactions within vacuum tubes at ultra-high frequencies."

President, 1946; Director, 1939–1947. Committees: Awards, 1942; Board of Editors, 1941–1947; Constitution and Laws, 1947; Editorial Administrative, 1947; Electronics, 1939–1941, 1943; Executive, 1942–1944, *chairman*, 1947; Fiscal, 1947; High-Frequency Tubes, 1938; International Liaison, 1947; Investments, 1946; Subcommittee on Letter Symbols, 1938; Membership, 1941; Nominations, 1944, 1947; Office Quarters, 1947; Papers, 1932–1939, *vice-chairman*, 1940–1942, *chairman*, 1943–1945; Symbols, 1940–1941.

ALFRED L. LOOMIS
(M'28—SM'43—F'44)

President, Loomis Institute for Scientific Research, 14 Wall St., New York 5, N.Y. Born: November 4, 1887, New York, N.Y. A.B., Yale University, 1909; LL.B., Harvard University, 1912; D.Sc., Wesleyan University, 1932; M.Sc., Yale University, 1933; LL.D., University of California, 1941.

John Price Wetherill Medal, The Franklin Institute, 1934.

Fellow Award, 1944, in
"recognition of his work in the application of electronic techniques to medical research and for contributions to microwave development."

WILLIAM D. LOUGHLIN
(M'29—F'35)

President, Boonton Radio Corporation, 518 Main St., Boonton, N.J. Born: January 22, 1893, Philadelphia, Pa. A.B., St. Josephs College, 1912.

ARTHUR V. LOUGHREN
(A'24—M'29—SM'43—F'44)

Director of Engineering, Hazeltine Electronics Corporation, 58-25 Little Neck Pkwy., Little Neck, L.I., N.Y. Born: September 15, 1902, Rensselaer, N.Y. B.A., 1923, E.E., 1925, Columbia University.

Fellow Award, 1944, for his
"many valuable contributions to broadcast and television engineering and his untiring efforts to advance this profession."

Phi Beta Kappa; Sigma Xi; Tau Beta Pi.

Committees: Admissions, 1931–1933; Membership, 1934; Papers Procurement, 1947; Radio Receivers, Subcommittee on Definitions, 1938; Standardization, Subcommittee on Vacuum Tubes, 1927–1928; Standards, 1947; Television, 1940–1945.

SAMUEL S. MACKEOWN
(M'29—F'40)

Professor of Electrical Engineering, California Institute of Technology, Pasadena 4, Calif. Born: December 3, 1895, New York, N.Y. B.A., 1917, Ph.D., 1923, Cornell University.

Committees: Board of Editors, 1941–1947.

Institute Representative: California Institute of Technology, 1941–1945.

IOURY G. MALOFF
(M'27—F'36)

Development Engineer, RCA Victor Division, Radio Corporation of America, Camden, N.J. Born: June 3, 1899, Vladivostok, Russia.

Committees: Standardization, Bibliography, 1928; Papers Procurement, 1947; Radio Receivers, 1927–1928; Tellers, 1940.

RAY H. MANSON
(M'23—F'30)

President and Director, Stromberg-Carlson Company, 100 Carlson Rd., Rochester 3, N.Y. Born: August 25, 1877, Bath, Maine. B.S.(E.E.), 1898, E.E., 1901, D.Eng., 1933, University of Maine.

President, 1931; Junior Past President, 1932–1933; Manager, 1927–1930; Director, 1931–1933. Committees: Awards, 1932, 1940; Bibliography, 1930; Nominations, 1929–1930, *chairman*, 1932; 1934, 1940; Public Relations, 1940, 1947; Regular Papers, 1941; Standardization, 1926–1931; Technical Committee No. 4, Electro-Acoustic Devices, *chairman*, 1927–1928, 1930–1931, 1933; Tellers, 1932–1933; Television and Facsimile, 1936–1938.

Institute Representative: American Standards Association Electrical Standards Committee, 1936–1939.

ROBERT H. MARRIOTT
(M'12—F'15)

Consulting Engineer, 1470 E. 18 St., Brooklyn 30, N.Y. Born: February 19, 1879, Richwood, Ohio. B.Sc., Ohio State University, 1901.

President, The Wireless Institute, 1909–1912; I.R.E., Vice-President, 1913; Director, 1912–1913; Manager, 1914–1916, 1920–1922, 1926–1932; Director, 1932. Committees: Admissions, 1926, 1930–1931; Broadcasting, 1928–1933; Constitution and Laws, *chairman*, 1928–1931; Electro-Visual Devices, 1933; Finance, 1914; Membership, 1925; Meetings and Papers, *chairman*, 1926–1927; Nomina-

tions, 1928; Papers, 1915, 1931–1933; Publicity, *chairman*, 1914; 1915–1919; Standardization, *chairman*, 1912–1913; 1915, 1925; Specifications for Steamship Radio Equipment, *chairman*, 1914; San Francisco Representation, 1915. Formation of Seattle Section, *chairman*, 1915.

Sections: Seattle, *chairman*, 1916–1919, 1924.

Institute Representative: Fourth National Radio Conference, 1926; National Advisory Council on Radio in Education, 1932, 1936–1937, 1939–1940; National Advisory Council on Radio in Education, Committee on Engineering Developments, 1941–1943; U.R.S.I. (International Scientific Radio Union) Executive Committee, American Section, 1931–1932.

WARREN P. MASON
(A'36—VA'39—F'41)

Research Physicist, Bell Telephone Laboratories, Inc., Murray Hill, N.J. Born: September 28, 1900, Colorado Springs, Colo. B.S. (E.E.), University of Kansas, 1921; M.A., 1924, Ph.D., 1928, Columbia University.

Fellow Award, 1941, for his
"investigations of piezoelectric crystals and their application to quartz-crystal filters."

Committees: Papers Procurement, 1947; Papers Review, 1947; Piezoelectric Crystals, 1941–1943, 1945, 1946–1947.

EMIL E. MAYER
(F'34)

Consulting Engineer, 10 E. 40 St., New York 16, N.Y. Born: January 7, 1885, Elberfeld, Germany. E.E., Technical University of Berlin, 1906; D.S., University of Munich, 1919.

Committees: Specifications for Steamship Radio Equipment, 1914; Standardization, 1914; Wave Length Regulation, 1916.

ELMER D. McARTHUR
(M'42—SM'43—F'45)

Section Head, Electron Tubes Research Laboratory, General Electric Company, 1 River Rd., Schenectady 5, N.Y. Born: May 3, 1903, Salamanca, N.Y. B.S.(E.E.), Union College, 1925.

Fellow Award, 1945, for his
"developments in the field of ultra-frequency electron tubes."

Committees: Board of Editors, 1945–1947.

BRUNSON S. McCUTCHEN
(A'21—M'26—F'32)

Partner, Communication Measurements Laboratory, 120 Greenwich St., New York 6, N.Y. Born: November 20, 1892, North Plainfield, N.J. Lit. B., 1915, E.E., 1917, Princeton University.

ARTHUR S. McDONALD
(M'23—F'41)

Chief Engineer, Overseas Telecommunication Commission (Australia), 47 York St., Sydney, N.S.W., Australia. Born: March 6, 1890, Castle Donnington, Victoria, Australia.

PAUL K. McELROY
(A'25—M'27—F'31)

Design Engineer, General Radio Company, 275 Massachusetts Ave., Cambridge 39, Mass. Born: August 7, 1899, Toledo, Ohio. A.B., 1920, A.M., 1921, Harvard University.

Committees: Membership, 1940, *ex officio*, 1941.

Sections: Boston, *secretary*, 1939–1941.

KNOX McILWAIN
(A'31—M'40—SM'43—F'48)

Chief Consulting Engineer, Hazeltine Electronics Corporation, 58–25 Little Neck Pkwy., Little Neck, N.Y. Born: September 4, 1897, Philadelphia, Pa. B.S. Princeton University, 1918; B.S.E.E., University of Pennsylvania, 1921; E.E., University of Pennsylvania, 1930.

Fellow Award, 1948, for his
"contribution to the technical literature of radio and his activity in the field of radio aids to navigation."

Committees: Chairman, Philadelphia Section, 1936; Electro-Acoustics, 1939–1943; Papers Review, 1942–1945; Admissions, 1944–1945; Circuits, 1944; Standards, 1945–1946; Handbook, 1945–1946; Board of Editors, 1946–1947.

DONALD W. R. McKINLEY
(A'39—SM'46—F'48)

Research Physicist, National Research Council, Sussex Street, Ottawa, Ont., Canada. Born: Shanghai, China, September 22, 1912. B.A. University of Toronto, 1934; M.A., 1935, Ph.D., 1938, University of Toronto.

Fellow Award, 1948, for his
"contributions to the development in Canada of radio aids to air navigation."

O.B.E., King's Honours List, July, 1946.

Sections: Ottawa, *chairman*, 1946–1947.

LESLIE McMICHAEL
(M'20—F'25)

Managing Director, McMichael Radio, Ltd., Wexham Rd., Slough, Bucks., England. Born: November 17, 1884, Birkenhead, Cheshire, England.

Began experimental work in radio in 1903. Founded Radio Society of Great Britain, July, 1913; Vice-President, Radio Society of Great Britain, 1924; Honorary Member, Radio Society of Great Britain, 1945; Member, Institution of Electrical Engineers (England) 1927; Chairman, Council of Radio Manufacturers Association (England), 1923; Fellow, Television Society (England); President, British Institution of Radio Engineers, 1944–1945.

Committees: Membership, 1925; Receiving Sets, 1927; Sections, 1925; Standardization, 1926.

DONALD M. McNICOL
(A'14—M'14—F'24)

Consulting Communication Engineer, 25 Beaver St., New York 4, N.Y. Born: July 23, 1875, Hopetown, Ont., Canada.

Instructor, Teachers College, Columbia University; lecturer on communications, University of Utah, Sheffield Scientific School, Yale University, and Cooper Union.

President, 1926; Vice-President, 1925; Junior past president, 1927–1928; Manager, 1919–1924; Director, 1925–1926; Advertising Manager, 1921–1922. Committees: Admissions, 1927, 1935; Advertising, 1925; Bibliography, 1930–1932; Editorial Administrative, 1947; Meetings and Papers, *chairman*, 1925; Membership, 1925; Nominations, 1928–1930, 1933; Publicity, 1931–1934; Sections, *chairman*, 1925, 1928; Standardization, *chairman*, 1920–1924; 1925, 1927.

Institute Representative: Fourth National Radio Conference, 1926; National Fire Protection Association (National Electric Code), 1936; American Engineering Standards Committee (now American Standards Association) Sectional Committee on Electric Wiring and Apparatus in Relation to Fire Hazard (National Electric Code), 1927–1930.

JAMES W. McRAE
(A'37—F'47)

Director of Electronic & Television Research, Bell Telephone Laboratories, Inc., 463 West Street, New York 14, N.Y. Born: October 25, 1910, Vancouver, B. C., Canada. B.S. in E.E. University of British Columbia, 1933; M.S. 1934, Ph.D., 1937, California Institute of Technology.

Fellow Award, 1947, for his
"outstanding work in the planning of research and development programs in radar and countermeasures and for his researches in radio transmitting methods."

Legion of Merit, War Department, 1945; Eta Kappa Nu, Honorable Mention, 1943.

Committees: Board of Editors, 1946–1947; Convention, 1947; Special Board of Editors, 1947; Program of the Technical Societies Council, 1947.

Sections: New York, *vice-chairman*, 1947.

LARNED A. MEACHAM
(A'38—SM'45—F'48)

Member of Technical Staff, Bell Telephone Laboratories, 463 West Street, New York 14, N.Y. Born: September, 1908, Denver, Colo. B.S. in E.E., University of Washington, 1929; Certificate of Research, Cambridge University, England, 1930.

Fellow Award, 1948, for his

"contributions in the fields of radar range measurement and pulse code modulation."

"Outstanding Young Electrical Engineer of 1939," Eta Kappa Nu, January, 1940.

Committees: Board of Editors, 1946.

GEORGE F. METCALF
(A'34—M'38—F'42)

Manager, Electronics Laboratory, General Electric Company, Electronics Park, Syracuse, N.Y. Born: December 7, 1906, Milwaukee, Wis. B.S.(E.E.), Purdue University, 1928.

Fellow Award, 1942, for his

"development work on vacuum tubes and vacuum-tube circuits and the successful co-ordination of many technical projects requiring broad scientific knowledge."

Committees: Board of Editors, 1946–1947; Cathode-Ray and Television Tubes, 1938; Electron-Beam Tubes, 1938; Electronics, 1936–41; Photoelectric Devices, 1938; Small High-Vacuum Tubes 1938.

Coppin Award, General Electric Company.

BENJAMIN F. MIESSNER
(A'37—F'37)

President, Miessner Inventions, Inc., Van Beuren Rd., Morristown, N.J. Born: July 27, 1890, Huntingburg, Ind. U.S. Naval Electrical School, 1909; Purdue University, 1913–1916.

JOHN M. MILLER
(F'36)

Vice-President and Chief Engineer, Western Electrical Instrument Corporation, 614 Frelinghuysen Ave., Newark 5, N.J. Born: June, 1882, Hanover, Pa. B.A., 1904, M.A., 1907, Ph.D., 1915, Yale University.

Committees: Circuits, 1946.

JOHN MILLS
(M'16—F'30)

Retired, formerly with Bell Telephone Laboratories, Inc., 205 W. 57 St., New York 19, N.Y. Born: April 13, 1880, Morgan Park, Ill. A.B., University of Chicago, 1901; A.M., University of Nebraska, 1904; B.S., Massachusetts Institute of Technology, 1909.

J. P. MINTON
(F'39)

Research Adviser, Magnolia Petroleum Company, Magnolia Bldg., Dallas 1, Texas. Born: November 7, 1889, Wapulla, Ill. Associate Engineer, Bradley Polytechnic Institute, 1910; B.S., Massachusetts Institute of Technology, 1912; Ph.D., University of Chicago, 1921.

Fellow, National Research Physics, 1921–1922; American Physical Society, 1925; The American Association for the Advancement of Science, 1941.

Sigma Xi, 1920.

Committees: Electro-Acoustic Devices, 1927–1928; Membership, 1942–1943.

ILIA E. MOUROMTSEFF
(A'34—SM'45—F'47)

Professor, Upsala College, Prospect Avenue, East Orange, N.J. Born: December 9, 1881. Mil. Eng., Nicholas Engineering Academy, 1906; Dipl. Eng., E.E., Grand Ducal Institute of Technology, Darmstadt, Germany, 1910.

Fellow Award, 1947, in

"recognition of his contributions to vacuum tube development, particularly transmitting tubes."

Order of Merit (Silver W) Westinghouse Electric Corporation, 1947.

Committees: Electronics, 1941–1945; Papers, 1944–1945; Papers Procurement, 1945–1947; Papers Review, 1945–1947; Electron Tubes, 1945–1947; Membership, 1947.

ALBERT F. MURRAY
(A'20—M'26—F'38)

Consulting Television Engineer, 4707 Windom Pl., N.W., Washington 16, D.C. Born: June 22, 1894, Decatur, Ala. B.A., Maryville College, 1915; B.S., Harvard University, 1918; S.B., Massachusetts Institute of Technology, 1918; D.Sc., Maryville College, 1939.

Director, 1936–1939. Committees: Awards, 1936; Cathode-Ray and Television Tubes, *chairman*, 1938; Electronics, 1937–1940; Electro-Visual Devices, 1933; Letter Symbols, 1938; Membership, 1929–1934, 1937–1939; Papers, 1934–1945; Papers Procurement, 1947; Papers Review, 1946–1947; Sections, 1929–1930, 1936, *ex officio*, 1937–1938; Television and Facsimile, 1936–1938; Television, 1939–1945.

Sections: Philadelphia, *chairman*, 1937–1938.

EDWARD L. NELSON
(A'19—M'25—F'38)

Radio Development Engineer, Bell Telephone Laboratories, Inc., 463 West St., New York 14, N.Y. Born: March 10, 1891, Warsaw, Ind. B.S.(E.E.), Armour Institute of Technology, 1914.

Manager, 1932; Director, 1932–1937. Committees: Board of Editors, 1941–1947; Broadcasting, 1928–1931; Broadcast, *chairman*, 1932–1936; Meetings and Papers, 1928–1929; Nominations, 1932, 1935; Registration of Engineers, 1941–1943; Standardization, 1927–1931; Standards, 1933–1936; Use of the Transmission Unit, 1928.

Institute Representative: First National Conference on Educational Broadcasting, 1937; Planning Committee, National Conference on Educational Broadcasting, American Council on Education, 1936–1937, 1939–1943.

DANIEL E. NOBLE
(A'25—SM'44—F'47)

Vice-President in Charge Communications and Electronics Division, Motorola Inc., 4545 Augusta Boulevard, Chicago 51, Ill. Born: October 4, 1901, Naugatuck, Conn. B.S., University of Connecticut, 1929.

Fellow Award, 1947, in

"recognition of his contributions to the design and application of very-high-frequency voice communication systems for police and other emergency services."

Committees: Standards, 1940–1942, 1946; Annual Review, 1941–1942, 1946; Regular Papers Committee, 1941; Papers Procurement, 1942–1943, 1947; Frequency Modulation, *chairman*, 1940–1942; 1943–1945; Railroad and Vehicular Communication, *chairman*, 1946; 1945, 1947; Frequency Modulation, *chairman*, 1940–1942.

Sections: Connecticut Valley, *chairman*, 1938.

PEDRO J. NOIZEUX
(A'30—F'47)

Assistant General Manager, Transradio Internacional, Compania Argentina de Telecommunicaciones, San Martin, 379, Buenos Aires, Argentina. Born: 1900, France.

Founder and Chairman, Buenos Aires Section, 1939.

DWIGHT O. NORTH
(A'35—M'38—SM'43—F'43)

Research Engineer, RCA Laboratories Division, Radio Corporation of America, Princeton, N.J. Born: September 28, 1909, Hartford, Conn. B.S., Wesleyan University, 1930; Ph.D., California Institute of Technology, 1933.

Fellow Award, 1943, for his
"contributions to the knowledge of the fundamentals of vacuum-tube performance, especially with regard to fluctuation phenomena and the effects of electron transit time."

Committees: Board of Editors, 1946–1947; Papers, 1944–1945.

KENNETH A. NORTON
(A'29—M'38—SM'43—F'43)

Chief of Frequency Utilization Research Section, Central Radio Propagation Laboratory, National Bureau of Standards, Washington 25, D.C. Born: February 27, 1907, Rockwell City, Iowa. B.S., University of Chicago, 1928.

Fellow Award, 1943, in
"recognition of his work in applying his conclusions from the theory of radio wave propagation to the problems of frequency allocation."

Committees: Papers Review, 1946–1947; Radio Wave Propagation, 1939–1940, 1942–1945; Radio Wave Propagation and Utilization, 1947; Wave Propagation Committee, 1937–1941.

HAROLD S. OSBORNE
(A'14—M'29—SM'43—F'45)

Chief Engineer, American Telephone and Telegraph Company, 195 Broadway, New York 7, N.Y. Born: August 1, 1887, Fayetteville, N.Y. B.S., 1908, Eng.D., 1910, Massachusetts Institute of Technology.

Fellow Award, 1945, for his
"contributions in the electrical communication field including outstanding leadership and direction in the application of new techniques to telephony."

Committees: Standardization, 1926–1928.

ARTHUR A. OSWALD
(A'19—M'25—F'28)

Radio Equipment Engineer, Bell Telephone Laboratories, Inc., 463 West St., New York 14, N.Y. Born: March 3, 1891, Lake Linden, Mich. B.S.(E.E.), 1916, E.E., 1927, Armour Institute of Technology (now Illinois Institute of Technology).

Committees: Papers Procurement, 1942–1943; Regular Papers, 1941; Standardization, 1925.

LOUIS G. PACENT
(A'12—M'15—F'27)

President and Technical Director, Pacent Engineering Corporation, 79 Madison Ave., New York 16, N.Y. Born: June 23, 1893, New York, N.Y. I.E.E., Pratt Institute, 1916; Professional Engineer, State of N.Y., 1940.

Advertising Manager, 1915–1917, 1919–1920. Committees: Membership, 1925, 1934, 1936–1940; New York Program, 1936–1937; Publicity, 1916–1919; Sections, 1926–1927; Standardization, 1929–1930; Tellers, *chairman*, 1938.

Institute Representative: American Engineering Standards Committee (now American Standards Association), Technical Committee, Component Parts and Wiring, *chairman*, 1926.

DAVID PACKARD
(S'34—A'41—SM'47—F'48)

President, Hewlett-Packard Company, 395 Page Mill Road, Palo Alto, Calif. Born: September 7, 1912, Pueblo, Colo. A.B., Stanford University, 1934; E.E., Stanford University, 1939.

Fellow Award, 1948, for his
"initiative in the development of special radio testing and measuring techniques."

Sections: San Francisco, *chairman*, 1945.

ROBERT M. PAGE
(SM'45—F'47)

Superintendent, Radio Division III, United States Naval Research Laboratory, Washington 20, D.C. Born: June 2, 1903, St. Paul, Minn. B.Sc., Hamline University, 1927; M.A., George Washington University, 1932; D.Sc. (Honorary), Hamline University, 1943.

Fellow Award, 1947, in
"recognition of his pioneering achievements in solving some of the early problems of basic importance to radar."

Distinguished Civilian Service Award, United States Navy, 1945; Citation O.S.R.D., 1946; Certificate of Merit, The President of the United States, 1947.

Committees: Board of Editors, 1946–1947.

CHARLES J. PANNILL
(F'29)

President, RCA Institutes, Inc., and President, Radiomarine Corporation of America, 30 Rockefeller Plaza, New York, N.Y. Born: May 13, 1879, Petersburg, Va. Private and public school education.

Chevalier of the First Order of Leopold; Marconi Memorial Medal of Achievement, The Veteran Wireless Operators Association, 1943.

Committees: Publicity, 1916.

Sections: Washington, *secretary-treasurer*, 1914, *executive committee*, 1916–1919.

HAROLD O. PETERSON
(A'22—M'31—F'41)

Section Head, RCA Laboratories Division, Radio Corporation of America, 140 Moriches Rd., Riverhead, L.I., N.Y. Born: November 3, 1899, Blair, Neb. B.Sc. (E.E.), University of Nebraska, 1921.

Member, Sigma Xi.

Fellow Award, 1941, for
"engineering leadership in radio communications and contributions to the ultra-high-frequency field."

Committees: Board of Editors, 1944–1947; Papers, 1934–1944; Radio Receivers, 1936–1947; Radio Wave Propagation, 1939, 1942–1945; Radio Wave Propagation and Utilization, 1946–1947; Standardization: Subcommittee on Aircraft Receivers, 1930–1931; Standards, 1934–1935; Transmitters and Antennas, 1936; Wave Propagation, 1937–1941.

GREENLEAF W. PICKARD
(M'12—F'15)

President, Pickard and Burns, Inc., 66 Needham St., Newton Highlands 61, Mass. Born: February 14, 1877, Portland, Maine.

Medal of Honor, 1926, for his
"contributions as to crystal detectors, coil antennas, wave propagation and atmospheric disturbances."

Armstrong Medal, Radio Club of America, 1940.

President, 1913; Director, 1913. Committees: Board of Editors, 1928–1947; Bibliography, 1930–1932; Constitution and Laws, 1928–1931; Increase of Membership, *ex officio*, 1913; Meetings and Papers, 1927–1929; Nominations, 1929, 1933, *chairman*, 1938; Organization of Boston Section, 1914; Papers, *ex officio*, 1913; Publicity, *ex officio*, 1913; Specifications for Steamship Radio Equipment, 1914; Standardization, *ex officio*, 1912–1913; 1914–1915, 1925; Wave Length Regulation, 1916; Wave Propagation, 1937–1938.

GEORGE W. PIERCE
(M'13—F'15)

Rumford Professor of Physics, Emeritus, and Gordon McKay Professor of Communication Engineering, Emeritus, Research Laboratory of Physics, Harvard University, Cambridge, Mass. Born: January 11, 1872, Webberville, Texas. B.S., 1893, M.A., 1894, University of Texas; A.M., 1899, Ph.D., 1900, Harvard University.

Medal of Honor, 1929, for his

"major contributions in the theory and operation of crystal detectors, piezoelectric-crystals and magnetostriction frequency controls, and magnetostriction devices for the production of sound; and for his instructional leadership as a teacher and as a writer of important texts in the electric-wave field."

Franklin Medal, Franklin Institute, 1943.

President, 1918–1919; Vice-President, 1915; Director, 1915, 1918–1919. Committees: Admissions, *ex officio*, 1929–1931; Organization of Boston Section, 1914; Publicity, *ex officio*, 1929; Sections, 1925, 1928, *ex officio*, 1929–1932; Standardization, 1914–1919.

Sections: Boston, *chairman*, 1922–1932.

JOHN ALVIN PIERCE
(SM'45—F'47)

Associated with Cruft Laboratory, Harvard University, Cambridge 38, Mass. Born: December 11, 1907, Spokane, Wash. B.A. University of Maine, 1937.

Fellow Award, 1947, for his

"contributions to the development of Loran, a radio aid to navigation."

Fellow, A.A.A.S., 1947.

Committees: Radio Wave Propagation and Utilization, 1946; Navigation Aids, 1947.

JOHN R. PIERCE
(S'35—A'38—SM'46—F'48)

Member of Technical Staff, Bell Telephone Laboratories, Inc., 463 West Street, New York 14, N.Y. Born: March 27, 1910, Des Moines, Iowa. B.S., California Institute of Technology, 1933; M.S., 1934, Ph.D., 1936, California Institute of Technology.

Fellow Award, 1938, for his

"many contributions to the theory and design of vacuum tubes."

"Outstanding Young Electrical Engineer of 1942," Eta Kappa Nu. Morris Liebmann Memorial Prize, 1947.

Committees: Papers Procurement, 1942.

FRANK A. POLKINGHORN
(A'25—F'38)

Member of Technical Staff, Bell Telephone Laboratories, Inc., 463 West St., New York 14, N.Y. Born: July 23, 1897, Holbrook, Mass. B.S., University of California, 1922.

Committees: Admissions, 1943–1944, *vice-chairman*, 1945–1947; Sections, 1941–1945; Standardization: Subcommittee on High-Frequency Receivers, 1930–1931; Radio Receivers, 1933.

RALPH K. POTTER
(A'25—M'26—F'41)

Director, Transmission Research, Bell Telephone Laboratories, Inc., 463 West St., New York 14, N.Y. Born: October 1, 1894, Elgin, Ill. B.S., Whitman College, 1917; E.E., Columbia University, 1923.

Committees: Awards, 1944; Papers, 1931–1941.

FRANK H. R. POUNSETT
(A'26—SM'44—F'47)

Chief Engineer, Stromberg-Carlson Company, Ltd., 211 Geary Avenue, Toronto 4, Ont., Canada. Born: September 12, 1904, London, England. B.A.Sc., University of Toronto, 1928.

Fellow Award, 1947, in

"recognition of his contributions to the engineering development and production design of radar apparatus in Canada."

Committees: Receivers, 1946–1947.

Sections: Toronto, *chairman*, 1945–1946; *vice-chairman*, 1944–1945.

HARADEN PRATT
(A'14—M'17—F'29)

Vice-President and Chief Engineer, American Cable and Radio Corporation, Mackay Radio and Telegraph Company, Inc., All America Cables and Radio, Inc., The Commercial Cable Company; Vice-President, Federal Telephone and Radio Corporation, International Telecommunication Laboratories, Federal Telecommunication Laboratories, 67 Broad St., New York 4, N.Y. Born: July 18, 1891, San Francisco, Calif. B.S., University of California, 1914.

Medal of Honor, 1944, in

"recognition of his engineering contributions to the development of radio, of his work in the extension of communication facilities to distant lands, and of his constructive leadership in Institute affairs."

President, 1938; Secretary, 1943–1947; Treasurer, 1941–1942; Director, 1935–1945. Committees: Admissions, 1937; Annual Review, 1937; Awards, 1937, *chairman*, 1939–1941; 1944, *vice-chairman*, 1945; Board of Editors, 1941–1947; Building Fund Administrators, 1947; Constitution and Laws, 1941; Editorial Administrative, 1947; Executive, *vice-chairman*, 1942; *secretary*, 1943–1947; Fiscal, *chairman*, 1947; Investments, 1944–1946; New York Program, 1933, 1935, *chairman*, 1936; 1937; Nominations, 1941–1942, *chairman*, 1943, 1947; Office Quarters, 1947; Preparedness, *chairman*, 1941; Standardization, 1928–1931: Technical Committee No. 2, Radio Transmitters and Antennas, *chairman*, 1930–1931; 1932–1933; Standards, 1934–1935; 1936–1938; *chairman*, 1933; Tellers, *chairman*, 1936.

Institute Representative: Radio Technical Planning Board, 1944–1945, *chairman*, 1945–1946; American Standards Association, Board of Directors, 1939–1941; Sectional Committee on Definitions of Electrical Terms, 1930–1945; Sectional Committee on Radio, 1936–1945.

JACKSON H. PRESSLEY
(A'20—F'31)

Chief Engineer, Farnsworth Television and Radio Corporation, 3301 S. Adams Street, Marion, Ind. Born: June 8, 1896, Rio Vista, Calif. B.S.(E.E.), University of California, 1920.

Committees: Radio Receivers, 1933.

CONAN A. PRIEST
(A'24—M'38—SM'43—F'47)

Manager of Transmitter Division, Electronics Department, General Electric Company, Electronics Park, Syracuse, N.Y. Born, August 11, 1900, Solon, Maine. B.S. in E.E., University of Maine, 1922; E.E.(Professional Electrical Engineering), University of Maine, 1925.

Fellow Award, 1947, for his

"contributions to the development of Loran, a radio aid to navigation."

Committees: Board of Editors, 1941–1947.

Sections: Syracuse, *chairman*, 1947.

RICHARD H. RANGER
(F'37)

President, Rangertone, Inc., 73 Winthrop St., Newark 4, N.J. Born: June 13, 1889, Indianapolis, Ind. B.S., Massachusetts Institute of Technology, 1911.

Committees: Meetings and Papers, 1928–1930; New York Programs, *chairman*, 1930; 1931–1932; Papers, 1931–1933.

ALEXANDER E. REOCH
(M'14—F'16)

Manager, Real Estate, RKO Service Corporation, 1270 Sixth Ave., New York 20, N.Y. Born: April 27, 1884, Sheffield, England. E.E., Sheffield University, England, 1902.

Manager, 1924–1927. Committees: Meetings and Papers, 1925; Radio Telegraph Transmitter Terminology, *chairman*, 1924–1925; Standardization, 1921–1926.

FRANCIS X. RETTENMEYER
(A'26—M'29—SM'43—F'44)

Chief Engineer, Federal Telephone and Radio Corporation, 100 Kingsland Rd., Clifton, N.J. Born: July 27, 1900, Kendrick, Okla. B.S.(E.E.), University of Colorado, 1922.

Fellow Award, 1944, in

"recognition of his accomplishments in the development of broadcast and automobile receivers and aviation radio."

Committees: Board of Editors, 1946–1947; Membership, 1938–1940; Papers, 1942–1945; Papers Procurement, 1947; Public Relations, 1941–1942; Publicity, 1939; Radio Receivers, 1936–1937; Sections, 1936; Standardization: Technical Committee No. 1, Radio Receivers and Parts, 1930.

CHESTER W. RICE
(A'16—M'26—F'28)

Consulting Engineer, General Electric Company, 1 River Rd., Schenectady, N.Y. Born: December 16, 1888, Lynn, Mass., S.B., 1910, M.E.E., 1911, Harvard University.

HAROLD B. RICHMOND
(A'14—M'23—F'29)

Chairman of the Board, General Radio Company, 275 Massachusetts Ave., Cambridge 39, Mass. Born: March 22, 1892, Medford, Mass. S.B., Massachusetts Institute of Technology, 1914.

Committees: Admissions, 1940; Nominations, 1940; Preparedness, 1941; Public Relations, 1947; Registration of Engineers, 1941–1943; Standardization, 1927–1930.

WALTER vanB. ROBERTS
(A'22—F'29)

RCA Laboratories Division, Radio Corporation of America, Princeton, N.J. Born: Titusville, Pa. B.S., 1915, E.E., 1917, Ph.D., 1924, Princeton University.

Committees: Use of the Transmission Unit, 1928.

RONALD J. ROCKWELL
(A'25—M'31—SM'43—F'45)

Vice-President in Charge of Engineering, Crosley Broadcasting Corporation, Station WLW, 140 W. Ninth St., Cincinnati 2, Ohio. Born: February 5, 1904, Omaha, Neb. B.S.(E.E.), Iowa State College, Ames, Iowa, 1927.

Fellow Award, 1945, for his

"active work in the affairs of the Institute and in the engineering of high-power international broadcast transmitters."

Committees: Sections, *ex officio*, 1938–1939.

Sections: Cincinnati, *chairman*, 1938–1939.

ALBERT ROSE
(A'36—M'40—SM'43—F'48)

Physicist, RCA Laboratories Division, Radio Corporation of America, Princeton, N.J. Born: March, 1910, New York, N.Y. A.B. 1931, Ph.D. in Physics, 1935, Cornell University.

Fellow Award, 1948, for his

"contributions in the field of television camera tubes and associated equipment."

Morris Liebmann Memorial Prize, 1946; T.B.A. Award (with P.K. Weimer and H.B. Law), Television Broadcasters Association, 1945; Journal Award, S.M.P.E., 1946.

GEORGE T. ROYDEN
(A'19—M'27—F'33)

Engineer, Mackay Radio and Telegraph Company, 67 Broad St., New York 4, N.Y. Born: June 20, 1895, Fort Clark, Texas. A.B., 1917, Engineer, 1924, Leland Stanford Junior University.

Sigma Xi, 1924.

Director, 1946. Committees: Admissions, 1941–1942, *chairman*, 1943–1947; Awards, 1946; Constitution and Laws, 1944; New York Program, 1938–1942; Sections, *ex officio*, 1933–1934; 1941–1945.

Sections: San Francisco, *chairman*, 1933–1934.

WALTER A. RUSH
(F'36)

200 Rideau Terr., Ottawa, Ont., Canada. Born: April 25, 1880, London, England.

Vice-President, 1942; Director, 1942.

FRANCIS M. RYAN
(J'14—A'17—M'26—F'40)

Radio Co-ordinator, American Telephone and Telegraph Company, 195 Broadway, New York 7, N.Y. Born: February 4, 1895, Seattle, Wash. B.S.(E.E.), University of Washington, 1919.

Committees: Admissions, 1939; Meetings and Papers, 1930; New York Programs, 1930; Papers, 1931–1936; Publicity, 1930; Railroad and Vehicular Communication, 1945–1946; Tellers, 1938.

Institute Representative: Committee on Aeronautic Radio Research, Department of Commerce, 1930–1931; Liaison Committee on Aeronautic Radio Research, 1932, 1936–1937, 1939–1941; Railroad and Vehicular Communication, 1946.

WINFIELD W. SALISBURY
(SM'44—F'47)

Director, Research Division, Collins Radio Company, 321 Third Street, S.E., Cedar Rapids, Iowa. Born: December 27, 1903, Carthage, Ill. A.B., University of Iowa, 1926.

Fellow Award, 1947, for his

"contributions to the generation of high power continuous wave energy at ultra-high frequencies."

Committees: Railroad and Vehicular Communications, 1945–1947; Education 1946; Papers Review, 1946.

ARTHUR L. SAMUEL
(A'24—VA'39—SM'44—F'45)

Professor of Electrical Engineering, University of Illinois, Urbana, Ill. Born: December 5, 1901, Emporia, Kan. A.B., College of Emporia, 1923; S.B., 1925, S.M., 1926, Massachusetts Institute of Technology.

Fellow Award, 1945, for his

"fundamental work in the field of electronic research and for developments of electronic devices of particular value at very high frequencies."

Recipient of $100 prize for the best presentation of a paper of sound technical merit published in the PROCEEDINGS during 1937, for "A Negative-Grid Triode Oscillator and Amplifier for Ultra-High Frequencies."

Committees: Electronics, 1943–1945; Electron Tubes, 1946–1947; High-Frequency Tubes, 1938; Symbols, 1946–1947; Vacuum Tubes, 1945.

DAVID SARNOFF
(A'12—M'14—F'17)

President and Chairman of the Board, Radio Corporation of America, 30 Rockefeller Plaza, New York 20, N.Y. Born: February 27, 1891, Uzlian, Minsk, Russia. Honorary degrees: D.Sc., St. Lawrence University, 1927; D.Sc., Marietta College, 1935; D.Lit., Norwich University, 1935; D.C.S., Oglethorpe University, 1928; D.Sc., Suffolk University, 1939.

Secretary, 1915–1917; Director, 1915–1917; Manager, 1918–1920. Committees: Constitutional Amendments, 1915; Financial Matters, 1915; Increase of Membership, 1915–1919; Publicity, 1915–1916, *chairman*, 1917–1919; San Francisco Representation, 1915; Wave Length Regulation, 1916, 1919.

SERGEI A. SCHELKUNOFF
(A'40—F'44)

Member of Technical Staff, Bell Telephone Laboratories, Inc., 463 West St., New York 14, N.Y. Born: January 27, 1897, Samara, Russia. B.A., 1923, M.A., 1923, State College of Washington;

Ph.D., Columbia University, 1928.

Morris Liebmann Memorial Prize, 1942, for his
"contributions to the theory of electromagnetic fields in wave transmission and radiation."

Fellow Award, 1944, in
"recognition of his mathematical contributions to electromagnetic theory."

Committees: Annual Review, 1947; Antennas, 1945–1947; Papers, 1945; Papers Review, 1946; Radio Wave Propagation and Utilization, 1945–1946, *chairman*, 1947; Standards, 1947; Wave Guides, 1943–1944.

JOHN C. SCHELLENG
(A'23—M'25—F'28)

Radio Research Engineer, Bell Telephone Laboratories, Inc., Deal, N.J. Born: November 12, 1892, Freeport, Ill. A.B., Cornell University, 1915.

Committees: Annual Review, 1937; Antennas, 1944–1947; Awards, 1943; Handbook, 1945; Methods of Testing Apparatus, Equipment, and Devices, 1931; Standardization, 1931; Standards, 1933, 1936–1938; Transmitters and Antennas, *chairman*, 1936–1937; 1938–1944; Transmitters, *chairman*, 1938; 1944–1947.

ARNE SCHLEIMANN-JENSEN
(A'45—SM'47—F'48)

President and Technical Director, AB Svenska Elektronror, Lumavägn 6, Stockholm 20, Sweden. Born: July 27, 1906, Randers, Denmark. Combined Radio and Telephone Course, Royal Technical University of Denmark, 1925–1931.

Fellow Award, 1948, for his
"contributions as an engineer and executive in the electron tube industry in Sweden under adverse war conditions."

JOHN SCOTT-TAGGART
(A'18—F'35)

Wynwood, Beaconsfield, Bucks., England. Born: May 27, 1897, Bolton, Lancs., England.

STUART W. SEELEY
(M'40—SM'43—F'43)

Manager, Industry Service Division, RCA Laboratories Division, Radio Corporation of America, 711 Fifth Ave., New York 22, N.Y. Born: June 23, 1901, Chicago, Ill. B.S.(E.E.), Michigan State College, 1925.

Fellow Award, 1943, for
"the development of practical apparatus for the radio industry, particularly in the fields of television and high-frequency broadcast reception."

Morris Liebmann Memorial Prize, 1948, for
"his development of ingenious circuits related to frequency modulation."

Committees: Admissions, 1944–1947; Board of Editors, 1947; Circuits, 1944–1947; Education, 1945. Modulation Systems, 1947; Papers Review, 1946.

BENJAMIN E. SHACKELFORD
(A'23—M'26—F'38)

Manager, License Department, RCA International Division, Radio Corporation of America, 745 Fifth Ave., New York 20, N.Y. Born: August 12, 1891, Richmond, Mo. A.B., 1912, A.M., 1913, University of Missouri; Ph.D., University of Chicago, 1916.

Director, 1945–1947. Committees: Awards, 1941, 1943–1944; Bibliography, *chairman*, 1930–1931; Board of Editors, 1937–1940; Constitution and Laws, *chairman*, 1947; Frequency Modulation, 1942–1945; Meetings and Papers, 1929; New York Program, 1941–1942; Papers, 1932–1936; Papers Procurement, 1942–1943; Sections, 1929–1932, *chairman*, 1933; 1934, 1943–1945; Standardization, 1931–1932; Standards, 1933; Vacuum Tubes, *chairman*, 1933.

Institute Representative: American Standards Association Sectional Committee on Electrical Definitions, Subcommittee on Vacuum Tubes, 1936–1937, 1939–1945; Sectional Committee on Vacuum Tubes for Industrial Purposes, 1936–1937, 1939–1945.

HENRY S. SHAW
(A'17—M'21—F'35)

Member of Board of Directors, General Radio Company, 275 Massachusetts Ave., Cambridge 39, Mass. Born: November 29, 1884, Boston, Mass. A.B., Harvard University, 1906.

ROBERT E. SHELBY
(A'29—M'36—SM'43—F'48)

Director of Television Engineering Operations, National Broadcasting Company, Inc., 30 Rockfeller Plaza, New York 20, N.Y. Born: July 20, 1906, Austin, Texas. B.S. in E.E., University of Texas, 1927; B.A. (with high honors) University of Texas, 1928; M.A. in Physics, University of Texas, 1929.

Fellow Award, 1948, for his
"many contributions to sound and television broadcasting."

Committees: Television, 1938–1947; Papers Procurement, 1947–1947.

JAMES E. SHEPHERD
(A'36—SM'44—F'48)

Research Engineer and Head of the Armament Radar Department, Sperry Gyroscope Company, Inc., Lakeville Road, Marcus Avenue, Great Neck, L. I., N.Y. Born: May 29, 1910, Houston, Texas. A.B. in E.E. 1932, M.A., 1933, University of Missouri; M.S., 1935, D.S., 1940, Harvard University.

Fellow Award, 1948, for his
"contributions to the development of airborne radar armament and for his active participation and leadership in the functions of the Institute."

Committees: Admissions, 1945; Convention Policy, *chairman*, 1946–1947; Membership (*ex officio*), 1944; I.R.E. National Convention, *chairman*, 1947; Sections, 1946–1947; Tellers, 1946–1947; I.R.E. National Winter Technical Meeting, *vice-chairman*, 1945–1946.

Sections: New York, *secretary-treasurer*, 1944; *vice-chairman*, 1945–1946; *chairman*, 1947; Membership Committee, *chairman*, 1943; Veteran's Council, 1946; Technical Societies Council, 1946.

EMIL J. SIMON
(M'12—F'15)

President, Radio Navigational Instrument Corporation, 500 Fifth Ave., New York 18, N.Y. Born: October 25, 1888, New York, N.Y. Columbia University, 1909.

Secretary, 1913–1914; Director, 1913–1914; Manager, 1915. Committees: Publicity, 1913, 1915; Specifications for Steamship Radio Equipment, 1914; Standardization, 1915.

DONALD B. SINCLAIR
(J'30—A'33—M'38—SM'43—F'43)

Assistant Chief Engineer, General Radio Company, 275 Massachusetts Ave., Cambridge 39, Mass. Born: May 23, 1910. S.B., 1931, S.M., 1932, Sc.D., 1935, Massachusetts Institute of Technology.

Fellow Award, 1943, for the
"development and application of various types of networks for high-frequency measurement of impedance."

Director, 1945–1948. Committees: Antennas, 1944–1945; Membership, 1947; Papers, 1941–1945; Papers Procurement, *group chairman*, 1945; 1946; Television, 1940–1946; Transmitters and Antennas, 1941–1945.

Institute Representative: Radio Technical Planning Board, *alternate*, 1945.

JOSEPH SLEPIAN
(SM'45—F'45)

Associate Director of Research, Westinghouse Electric Corporation, East Pittsburgh, Pa. Born: February 11, 1891, Boston,

Mass. A.B., 1911, A.M., 1912, Ph.D., 1913, Harvard University.

Fellow Award, 1945, in

"recognition of his contributions as scientist, engineer, and inventor to the field of electronics."

DAVID B. SMITH
(A'35—SM'44—F'48)

Vice-President, Engineering, Philco Corporation, Tioga and C Streets, Philadelphia, Pa. Born: December 3, 1911, Newton, N.J. S.B., Massachusetts Institute of Technology, 1933; S.M., Massachusetts Institute of Technology, 1934.

Fellow Award, 1948, for

"outstanding leadership in standardization activities, particularly in the field of television."

Director, 1947; Committees: Frequency Modulation, 1940, 1942–1946; Television, 1942–1946.

Sections: Philadelphia, *chairman*, 1945.

REGINALD L. SMITH-ROSE
(SM'44—F'44)

Superintendent, Radio Division, National Physical Laboratory, Department of Scientific and Industrial Research, 24 Rutland Gate, London, W. 1, England. Born: April 2, 1894, London, England. B.Sc., 1914, M.Sc., 1922, Ph.D., 1923, D.Sc., 1926, Imperial College of Science and Technology, London.

Fellow Award, 1944, in

"recognition of his pioneer work in the field of direction finding and radio propagation, allied to his leadership of an outstanding radio research group."

Students Premium, 1917; Wireless Premium, 1925, 1938, 1939; Duddell Premium, 1942, Institution of Electrical Engineers, London; Coronation Medal, 1937.

Committees: Radio Wave Propagation and Utilization, 1944–1947.

GEORGE C. SOUTHWORTH
(M'26—F'41)

Radio Research Engineer, Bell Telephone Laboratories, Inc., 463 West St., New York, N.Y. Born: August 24, 1890, Little Cooley, Pa. B.S., Grove City College, 1914; Ph.D., Yale University, 1923; Honorary Sc.D., Grove City College, 1931.

Morris Liebmann Memorial Prize, 1938, for his

"theoretical and experimental investigations of the propagation of ultra-high-frequency waves through confined dielectric channels and the development of a technique for the generation and measurement of such waves."

Fellow Award, 1941, for his

"pioneering investigations in ultra-high-frequency communication and transmission."

Committees: Circuit Elements, 1928; Fundamental Units and Measurements, 1933; Meetings and Papers, 1930; Papers, 1931–1934; Standardization, Bibliography, 1928; Wave Guides, 1943–1944.

ARCHIE M. STEVENS
(A'12—M'25—F'31)

Radio Engineer, Operating Department, International Telephone and Telegraph Corporation, 67 Broad St., New York 4, N.Y. Born: September 22, 1887, Glidden, Iowa. A.B., Leland Stanford Junior University, 1909.

Committees: Sections, *ex officio*, 1940.

Sections: Buenos Aires, *chairman*, 1940.

ELLERY W. STONE
(A'14—M'16—F'24)

Rear Admiral, U.S. Naval Reserve; Vice-President, International Telephone and Telegraph Corporation, 67 Broad St., New York 4, N.Y. Born: January 14, 1894, Oakland, Calif.

Grand Officer, Crown of Italy, 1944; Commander, British Empire, 1945; Order of Knight of Grand Cross of St. Maurice and St. Lazarus, Italian Government, 1945; United States Army Distinguished Service Medal, 1945.

Committees: Meetings and Papers, 1930.

JULIUS A. STRATTON
(M'42—SM'43—F'45)

Director, Research Laboratory of Electronics, Massachusetts Institute of Technology, Cambridge 39, Mass. Born: May 18, 1901, Seattle, Wash. S.B., 1923, S.M., 1925, Massachusetts Institute of Technology; Sc.D., 1927, Technische Hochschule, Zurich, Switzerland.

Fellow Award, 1945, in

"recognition of his contributions as a teacher and author, adept in the field of fundamental research who has applied his knowledge to improve radio communications."

Committees: Annual Review, 1945–1946; Board of Editors, 1946–1947; Education, 1945; Membership; 1947; Radio Wave Propagation and Utilization, 1945, *chairman*, 1946; 1947; Standards, 1945–1946.

WILLIAM O. SWINYARD
(A'37—M'39—SM'43—F'45)

Chief Engineer, Hazeltine Research, Inc., 325 W. Huron St., Chicago 10, Ill. Born: July 17, 1904, Logan, Utah. B.S., Utah State College, 1927.

Fellow Award, 1945, in

"recognition of his work in promoting electronics and the affairs of the Institute, particularly in his district."

Director, 1945–1946. Committees: Annual Review, 1947; Education, 1945–1947; Membership, *ex officio*, 1943–1944; Sections, *ex officio*, 1944–1945; *chairman*, 1946–1947; Radio Receivers, *chairman*, 1946–1947. Standards, 1947;

Sections: Chicago, *chairman*, 1944–1945; *secretary*, 1943–1944.

A. HOYT TAYLOR
(M'16—F'20)

Chief Consultant for Electronics, Naval Research Laboratory, Washington 20, D.C. Born: January 1, 1879, Chicago, Ill. B.S., Northwestern University, 1902; Ph.D., University of Goettingen, Germany, 1909.

Morris Liebmann Memorial Prize, 1927, for his

"work in connection with the investigation of radio transmission phenomena."

Medal of Honor, 1942, for his

"contributions to radio communication as an engineer and organizer, including pioneering work in the practical application of piezoelectric control to radio transmitters, early recognition and investigation of skip distances and other high-frequency wave-propagation problems, and many years of service to the government of the United States as an engineering executive of outstanding ability in directing the Radio Division of the Naval Research Laboratory."

John Scott Medal and Premium, Board of City Trustees, Philadelphia, 1942; Medal of Merit, President of the United States, 1944.

President, 1929; Junior Past President, 1930–1931; Director, 1929. Committees: Awards, 1928–1931; Meetings and Papers, 1928; Membership, 1925; Sections, 1925, 1928.

Sections: Washington, Acting Executive Committee, 1919–1922; *acting chairman*, 1922–1924; *chairman*, 1924–1928.

CHARLES H. TAYLOR
(M'13—F'15)

390 Riverside Drive, New York 25, N.Y. Born: August 22, 1875, Uxbridge, Middlesex, England.

Committees: Antenna Terminology, *chairman*, 1924–1925; Standardization, 1915–1921, 1924–1925.

FREDERICK E. TERMAN
(A'25—F'37)

Dean, School of Engineering, Stanford University, Stanford, Calif. Born: June 7, 1900, English, Ind. A.B., 1920, Engineer, 1922, Stanford University; Sc.D., Massachusetts Institute of Technology, 1924; Honorary S.D., Harvard University, 1945.

President, 1941; Vice-President, 1940; Director, 1940–1943. Committees: Admissions, 1940; Annual Review, 1946–1947; Awards, 1940, 1942–1943; Constitution and Laws, 1944–1947; Handbook, 1945–1947; Membership, *ex officio*, 1931; 1939–1940, *chairman*, 1942; Nominations, 1943; Papers Procurement, 1944; Research, 1945; *chairman*, 1947, Sections, *ex officio*, 1939; Standards, 1934–1940, 1946.

Sections: San Francisco, *secretary*, 1931–1932; *chairman*, 1939.

Institute Representative: Stanford University, 1941; National Research Council, Division of Engineering and Research, 1944–1945.

HUBERT M. TURNER
(A'14—M'20—F'37)

Associate Professor of Electrical Engineering, Yale University, New Haven, Conn. Born: July 20, 1882, Hillsboro, Ill. B.S., 1910, M.S., 1915, University of Illinois.

President, 1944; Junior Past President, 1945; Director, 1933–1946. Committees: Admissions, 1939–1940, *chairman*, 1941–1942; 1943; Annual Review, 1937–1939, 1943–1944; Awards, *chairman*, 1934; 1938–1939, *chairman*, 1940; 1941; Bibliography, 1930–1932; Circuit Elements, *chairman*, 1927–1928; Constitution and Laws, *chairman*, 1936–1940; 1941–1943; Executive, *chairman*, 1944; Facsimile, 1943–1944; Fundamental Units and Measurements, *chairman*, 1933; Investments, 1944–1945; Meetings and Papers, 1929; Membership, 1927; Nominations, 1938, 1941, *vice-chairman*, 1945; Papers, 1932–1944; Papers Procurement, 1942–1943; Preparedness, 1941; Regular Papers, 1941; Sections, 1925; Standardization, 1925–1937; Standards, 1940–1947; Symbols, 1946–1947; *chairman*, 1940–1944.

Institute Representative: Yale University, 1941–1945; U.S. National Committee of the International Electrotechnical Commission, 1944–1945. American Standards Association: Sectional Subcommittee on Letter Symbols for Radio Use, 1936, 1937, 1939–1945; Electrical Standards Committee, 1939–1945; Sectional Committee on Specifications for Dry Cells and Batteries, 1932, 1936–1937, 1939–1945; Subcommittee on Communication Symbols of Sectional Committee on Graphical Symbols and Abbreviations for Use on Drawings, 1937, 1939–1945; Sectional Committee on Letter Symbols and Abbreviations for Science and Engineering, 1940–1945.

MERLE A. TUVE
(A'45—F'45)

Director, Department of Terrestrial Magnetism, Carnegie Institution of Washington, 5241 Broad Branch Rd., N.W., Washington 15, D.C. Born: June 27, 1901, Canton, S.Dak. B.S., 1922, M.S. 1923, University of Minnesota; Ph.D., Johns Hopkins University, 1926.

Fellow Award, 1945, for

"pioneering in the experimental probing of the ionosphere and giving to the world the first publication of the experimental proof of the existence of the ionosphere; and for having initiated at an early date the pulse method of probing by reflection which is the basis of modern radar."

EDWARD HILL ULLRICH
(M'26—F'39)

Standard Telephones and Cables, Ltd., North Woolwich, London, E. 16, England. Born: December 8, 1894, Cardiff, Wales. Mechanical Sciences Tripos, Christ's College, Cambridge, 1921.

Institution Premium, Institution of Electrical Engineers, 1936.

HENDRIK JOHANNES VAN DER BIJL
(M'17—F'28)

Chairman, Electricity Supply Commission (Escom); Chairman, South African Iron and Steel Industrial Corporation, Ltd. (Iscor); Chancellor, University of Pretoria; Chairman and Managing Director, African Metals Corporation, Ltd. (Amcor); Erelid, Koninklyk Instituut van Ingenieurs (Holland); Director of South African Board of Barclays Bank: Honorary Colonel, S.A. Tank Corps; Director-General of Supplies; Chairman, Vanderbijl Engineering Corporation, Ltd.; Chairman, Vanderbijl Park Estate Company, 722 Escom House, Rissik St., Johannesburg, South Africa. Born: November 23, 1887, Pretoria, South Africa. B.A. (Hons.), Victoria College, Stellenbosch; D.Sc. (honoris causa), Stellenbosch University; M.A., Ph.D., University of Leipzig; LL.D. (honoris causa), Capetown University.

Foreign Associate, National Academy of Sciences of the United States; Fellow, Royal Society.

Vice-President, 1945; Director, 1945.

BALTHASAR VAN DER POL
(M'25—F'29)

Director of Fundamental Radio Research, Natuurkundig Laboratorium, N.V. Philips' Gloeilampenfabrieken, Kastanjelaan, Eindhoven, Netherlands; Born: January 27, 1889. D.Sc., Utrecht, 1919.

Medal of Honor, 1935, for his

"fundamental studies and contributions in the fields of circuit theory and electromagnetic wave propagation phenomena."

Vice-President, 1934; Director, 1934. Committees: Electronics, 1936–1940; Meetings and Papers, 1929; Wave Propagation, 1937–1939.

ARTHUR F. VAN DYCK
(A'13—M'18—F'25)

Staff Assistant to Executive Vice-President, Radio Corporation of America, 30 Rockefeller Plaza, New York 20, N.Y. Born: May 20, 1891, Stuyvesant Falls, N.Y. Ph.B., Yale University, 1911.

Modern Pioneer Award, National Association of Manufacturers, 1942.

President, 1942; Senior Past President, 1944; Manager, 1930–1932; Director, 1932–1935, 1939–1944. Committees: Admissions, 1929–1931, *chairman*, 1932–1933; 1934, 1937–1939, *chairman*, 1940, 1943; Annual Review, *chairman*, 1937–1939, 1943–1944; Awards, 1934, 1940; Bibliography, 1930–1932; Constitution and Laws, 1933–1934, 1943; Executive, *chairman*, 1942; 1943; New York Program, *chairman*, 1934; 1935, 1939–1940; Nominations, 1932; Papers, 1940; Papers Procurement, 1942–1943; Public Relations, 1940, 1946; *chairman*, 1941; 1943, 1945; Receiving Sets, 1927–1928; Regular Papers, 1941; Research, 1946–1947; Tellers, 1932–1933, *chairman*, 1935; Standards, 1933–1935.

Institute Representative: American Standards Association Sectional Committee on Preferred Numbers, 1932, 1936–1937, 1939–1945; A.E.S.C. (now American Standards Association), Technical Committee on Transmitting and Receiving Sets and Installations, *chairman*, 1926.

KARL S. VAN DYKE
(A'15—M'26—SM'43—F'44)

Professor of Physics, Wesleyan University, Scott Laboratory, Middletown, Conn. Born: December 8, 1892, Brooklyn, N.Y. B.S., 1916, M.S., 1917, Wesleyan University; Ph.D., University of Chicago, 1921.

Fellow Award, 1944, in

"recognition of his work in research on characteristics of piezoelectric crystals and their application to frequency control."

Committees: Annual Review, 1941; Board of Editors, 1932–1940, 1947; Meetings and Papers, *chairman*, 1929; 1930; Member-

ship, *ex officio*, 1927; 1942–1945; Papers, 1931–1933, 1944–1945; Papers Procurement, 1946, 1947; *group chairman*, 1945; Papers Review, 1946; Piezoelectric Crystals, *chairman*, 1941; 1942–1947; Sections, *ex officio*, 1934–1935; Standards, 1941.

Sections: Connecticut Valley, *secretary-treasurer*, 1927, *chairman*, 1934–1935.

KENNETH B. WARNER
(A'18—M'22—F'36)

Managing Secretary and Editor, The American Radio Relay League, Inc., 38 LaSalle Rd., West Hartford 7, Conn. Born: October 3, 1894, Cairo, Ill.

Committees: Publicity, 1931–1939; Standardization, 1928–1931.

EDWARD M. WEBSTER
(A'30—M'38—SM'43—F'44)

Commissioner, Federal Communications Commission, Washington, D.C. Born: February 28, 1889, Washington, D.C.

Fellow Award, 1944, for his

"contributions to the development of the maritime mobile radio services and his leadership in promoting measures for enhancing the safety of life and property at sea."

Director, 1946. Committees: Membership, 1940; Public Relations, 1945–1946; Sections, *ex officio*, 1942.

Sections: Washington, *secretary*, 1940, *chairman*, 1942.

JULIUS WEINBERGER
(A'13—F'25)

Staff Member, RCA Laboratories Division, Radio Corporation of America, 711 Fifth Ave., New York 22, N.Y. Born: July 22, 1893, New York, N.Y. B.S., College of the City of New York, 1913.

Modern Pioneer Award, National Association of Manufacturers, 1940.

Committees: Industrial Electronics, 1946–1947; Meetings and Papers, 1929; Research, 1946–1947.

HAROLD A. WHEELER
(A'27—M'28—F'35)

Consulting Radio Physicist, 259–09 Northern Blvd., Great Neck, L.I., N.Y. Born: May 10, 1903, St. Paul, Minn. B.S., George Washington University, 1925.

Morris Liebmann Memorial Prize, 1940, for his

"contribution to the analysis of wide-band high-frequency circuits particularly suitable for television."

Modern Pioneer Award, National Association of Manufacturers, 1940; Member, Sigma Xi, 1927.

Director, 1934, 1940–1947. Committees: Annual Review, 1937, 1940–1945, 1947; Awards, 1942, *chairman*, 1943; Bibliography, 1930–1932; Board of Editors, 1940–1947; Broadcast, 1935–1937; Circuits, 1944–1945; Executive, 1943–1944; Handbook, 1945–1946; *chairman*, 1946–1947; Meetings and Papers, 1929–1930; Membership, 1941–1942; New York Programs, 1931; Papers, 1931–1939; Papers Procurement, 1942–1943, *group chairman*, 1944; Public Relations, 1940; Radio Receivers, *chairman*, 1933, 1936–1938; Radio Receivers: Definitions, 1938, Testing Apparatus, 1938, Test Procedures, 1938; Regular Papers, 1941; Special Papers, 1941; Standardization: Technical Committee No. 4, Electro-Acoustic Devices, 1927–1928, 1930–1932; Standards, 1933, 1936–1938, *chairman*, 1940–1945; 1946–1947; Use of the Transmission Unit, 1928.

Institute Representative: National Television System Committee, *alternate*, 1941–1943.

LYNDE P. WHEELER
(F'28)

Vice-President, Pickard and Burns, Inc., 66 Needham, Newton Highlands 61, Mass. Born: July 27, 1874, Bridgeport, Conn. Ph.B., 1894, Ph.D., 1902, Yale University.

President, 1943; Junior Past President 1944; Senior Past President, 1945; Director, 1940–1945. Committees: Admissions, *ex officio*, 1930–1932; Bibliography, 1930–1932; Board of Editors, 1932–1942; Circuit Elements, 1928; Executive, *chairman*, 1943; Frequency Modulation, 1941–1945; Generating Apparatus and Theory, 1930; Meetings and Papers, 1929–1930; Membership Solicitation Policy, 1945; Nominations, 1939, 1942, 1944; Papers, 1931–1932, 1942–1943; Public Relations, 1945; Regular Papers, 1941; Sections, *ex officio*, 1930–1932; 1942; Standards, 1937, *chairman*, 1938–1939.

Sections: Washington, *chairman*, 1930–1932.

WILLIAM C. WHITE
(A'15—M'25—F'40)

Electronics Engineer, Research Laboratory, General Electric Company, 1 River Rd., Schenectady 8, N.Y. Born: March 24, 1890, Brooklyn, N.Y. E.E., Columbia University, 1912.

Treasurer, 1946. Director, 1943–1947. Committees: Awards, 1944, 1946, *chairman*, 1945; Bibliography, 1930–1943; Board of Editors, 1930, 1944–1947; Education, 1945–1946; Investments, *chairman*, 1946; Executive, *vice-chairman*, 1946; Meetings and Papers, 1928–1930; Membership, 1947; Nominations, 1933, 1940, 1944–1946; Papers, 1931–1944; Papers Procurement, *group chairman*, 1944–1945; 1946–1947; Standardization, 1925, 1930–1931; Bibliography, 1928; Vacuum Tubes, 1927–1928.

LAURENS E. WHITTEMORE
(A'16—M'25—F'27)

Special Representative, American Telephone and Telegraph Company, 195 Broadway, New York 7, N.Y. Born: August 20, 1892, Topeka, Kan. A.B., Washburn College, 1914; M.A., University of Kansas, 1915.

Vice-President, 1928; Manager, 1926–1927, 1929; Director, 1928, 1935–1937. Committees: Annual Review, 1937–1939, *chairman*, 1940–1947; Awards, 1937; Bibliography, 1930–1932; Board of Editors, 1929–1947; Broadcast, 1933; Direction Finding Terminology, *chairman*, 1924–1925; Electro-Acoustic Devices, 1927–1928; Meetings and Papers, 1929; Membership, *chairman*, 1925; Sections, *chairman*, 1926; Standardization, 1920–1925, *chairman*, 1926–1928; 1930–1935; Standards, 1944–1947; Symbols, *chairman*, 1944–1945; Tellers, 1934.

Institute Representative: U.S. National Committee, Advisers on Symbols (International Electrotechnical Committee), 1932, 1936–1937, 1939–1945; American Standards Association: Sectional Committee on Graphical Symbols and Abbreviations for Use on Drawings, 1937, 1939; American Engineering Standards Committee (now American Standards Association), Sectional Committee on Standards for Drawings and Drafting Room Practices, 1927–1932, 1936–1937, 1939; Sectional Committee on Radio, 1930–1932, 1936–1937, 1939–1945; Subcommittee on Electrical Abbreviations, Including Radio, 1927–1932; Sectional Committee on Radio-Electrical Co-ordination, 1936–1937, 1939–1945.

RAYMOND M. WILMOTTE
(M'29—F'38)

President, Raymond M. Wilmotte, Inc., 1469 Church St., N.W., Washington 5, D.C. Born: August 13, 1901, Paris, France. M.A., Cambridge University, England, 1921.

Premium for Research, Institution of Electrical Engineers, 1930.

Committees: Aircraft Receivers, 1930–1931; Handbook, 1945–1947; New York Program, 1933; Nomenclature, Symbols, and Definitions, 1930–1931; Papers, 1932–1933; Papers Review, 1946–1947; Radio Receivers, 1940–1947; Radio Transmitters and Antennas, 1930–1931; Sections, 1932; Standardization, 1931–1933.

WILLIAM WILSON
(M'26—F'28)

Professor of Physics, North Carolina State College, Raleigh, N.C. Born: March 29, 1887, Preston, Lancashire, England. B.Sc., 1907, M.Sc., 1908, D.Sc., 1913, Manchester University; B.A., Cambridge University, 1912.

Medal of Honor, 1943, for his

"achievements in the development of modern electronics, including its application to radio-telephony, and for his contributions to the welfare and work of the Institute."

Manager, 1932; Director, 1932–1936. Committees: Awards, *chairman*, 1932–1933; 1934–1936; Bibliography, 1930–1932, 1934; Board of Editors, 1929–1947; Meetings and Papers, 1927–1929; Nominations, 1936; Papers, *chairman*, 1931–1942; Standardization: Subcommittee on Methods of Testing Apparatus, Equipment, Devices, and Materials Used in Radio Transmitters and Antennas, *chairman*, 1930–1931; Subcommittee on Nomenclature, Symbols, and Definitions, 1930–1931; Technical Committee No. 2, Radio Transmitters and Antennas, *vice-chairman*, 1930–1931; *chairman*, 1932–1933; Standards, 1930–1932; *chairman*, 1933; 1934–1940.

Institute Representative: Committee on Applied Physics, 1936–1937, 1939–1943.

ROGER M. WISE
(A'26—M'30—F'37)

President, Roger M. Wise, Inc., 65 Ongley St., Rockville Centre, L.I., N.Y. Born: April 6, 1898, Fort Wayne, Ind. Attended University of California.

Committees: Admissions, 1940, 1944; Meetings and Papers, 1929; Papers Procurement, 1942–1944; Public Relations, 1942; Regular Papers, 1941; Standardization: Definitions, 1933, Technical Committee No. 3, Vacuum Tubes, 1930–1931, 1933.

IRVING G. WOLFF
(A'27—VA'39—F'42)

Director, Radio Tube Research Laboratory, RCA Laboratories Division, Radio Corporation of America, Princeton, N.J. Born: July, 1894, New York, N.Y. B.S., Dartmouth College, 1916; Ph.D., Cornell University, 1923.

Fellow Award, 1942, for

"basic research in centimeter-wave radio and application of it to the development of navigation instruments."

Committees: Board of Editors, 1946–1947; Education, 1946; Electronics, 1943–1945; High-Frequency Tubes, 1938; Meetings and Papers, 1928–1930; Papers, 1931–1945; Sections, *ex officio*, 1936; 1937; Standardization: Technical Committee No. 4, Electro-Acoustic Devices, 1927–1928, 1930–1931; Use of the Transmission Unit, 1928.

Sections: Philadelphia, *chairman*, 1936–1937.

Institute Representative: American Standards Association Sectional Committee on Acoustical Measurements and Terminology, 1936–1937, 1939.

ROBERT B. WOOLVERTON
(A'13—M'13—F'15)

Colonel, United States Army, Retired, 1705 Holloway Ave., San Francisco 12, Calif. Born: September 22, 1884, Greensboro, Pa. S.B., Harvard University, 1912.

Committees: Increase of Membership, 1914; Papers, 1915; Publicity, 1915–1919; San Francisco Representation, *chairman*, 1915.

LEO C. YOUNG
(A'19—M'29—SM'43—F'43)

Consultant, Naval Research Laboratory, Washington 20, D.C. Born: January 12, 1891, Danville, Ill.

Fellow Award, 1943, in

"recognition of his pioneer work on the causes of the vagaries of short-wave propagation and for his invaluable contributions to the efficient operation of an outstanding research laboratory."

Committees: Sections, *ex officio*, 1940.

Sections: Washington, *secretary*, 1938–1939, *chairman*, 1940.

PAUL D. ZOTTU
(A'31—M'38—SM'43—F'44)

President, Electronic Heating Equipment Manufacturing Company, 85 Commercial Ave., Cambridge 42, Mass. Born: March 22, 1906, Bucharest, Roumania. B.A., Wesleyan University, 1931.

Fellow Award, 1944, for his

"contributions in the field of high-frequency heating, particularly in the application of dielectric heating in industry."

Committees: Annual Review, 1945–1946; Board of Editors, 1943; Industrial Electronics, 1945–1947; Papers Procurement, 1946; Standards, 1945–1946.

VLADIMIR K. ZWORYKIN
(M'30—F'3C)

Director of Electronic Research, Vice-President, and Technical Consultant, RCA Laboratories Division, Radio Corporation of America, Princeton, N.J. Born: July 1889, Mourom, Russia. E.E., Petrograd Institute of Technology, 1912; Ph.D., University of Pittsburgh, 1926; D.Sc., Brooklyn Polytechnic Institute, 1938.

Morris Liebmann Memorial Prize, 1934, for his

"contributions to the development of television."

Modern Pioneer Award, National Association of Manufacturers. 1940; Rumford Medal, American Academy of Arts and Sciences, 1941.

Committees: Board of Editors, 1944–1947.

NAMES OF SENIOR MEMBERS

(As of December 31, 1947)

A

Abbott, W. R.
Abel, A. E.
Aboussleman, W.
Abraham, L. G.
Aceves, J. G.
Ackerman, E. K.
Ackman, H. E.
Adams, E. L.
Adams, J. J.
Adams, M. D.
Adams, N. I., Jr.
Adler, R.
Adorjan, P.
Affel, H. A.
Ahern, W. R.
Aiken, C. B.
Ainsworth, A. L.
Aiya, S. V. C.
Akerman, B.
Albert, A. L.
Albright, R. B.
Allen, H. E.
Allen, J. G.
Allen, J. E.
Allen, W. S.
Allison, J. L.
Allison, R. E.
Allsop, R. C.
Amis, F. H.
Amy, E. V.
Anderson, E. I.
Anderson, E. C.
Anderson, F. B.
Anderson, H. V.
Anderson, H. W.
Anderson, K. W.
Anderson, P. A.
Andres, L. J.
Andresen, E. H.
Andrew, V. J.
Andrew, G. W.
Andrews, G. J.
Andrews, P. D.
Angevine, O. L., Jr.
Anthes, R. G.
Anton, N. G.
Appel, H. W.
Applegarth, A. R., Jr.
Applegate, H. E.
Arditi, M.
Arnson, L.
Aronson, C. A.
Armstrong, C. A.
Arnaud, J. P.
Arnold, J. W.
Arnold, P. N.
Asserson, R.
Atkins, C. E.
Attwood, S. S.
Atwood, J. B.
Austin, F. M.
Austrian, R. B.
Autuori, V. A.
Aull, W., Jr.
Avery, R. D.
Ayer, R. B.
Ayres, R. C.

B

Bach, J. R.
Bach, R. O.
Backus, C. D.
Bagnall, V. B.
Bailey, A. B.
Bailey, G. W.
Bailey, R. C.
Bain, J. R.
Baker, C. I.
Baldwin, A. V.
Baldwin, C. F.
Baldwin, J. M.
Ball, I. D.
Ballard, B. G.
Ballard, R. C.
Ballard, W. C., Jr.
Ballentine, E. C.
Baracket, A. J.
Barclay, A. P. H.
Barclay, W. J.
Barco, A. A.
Bardin, W. F.
Barden, W. S.
Bareiss, M.
Barhydt, C. R.
Barker, P. L.
Barkley, W. J.
Barnes, J. L.
Barney, H. L.
Barone, S. A.
Barrett, A. E.
Barron, J. H.
Barry, J. G.
Bartelink, E. H. B.
Barstow, J. M.
Barton, L. E.
Bash, F. E.
Batchelder, L.
Batcheller, A.
Batcher, R. R.
Bates, J. F.
Bauer, B.
Baughman, G. W.
Baxter, C.
Bayles, J. C.
Beach, A. R.
Beam, R. E.
Bean, L. P. R.
Bearden, J. A.
Beatty, W. A.
Beck, A. C.
Bedford, A. V.
Beegle, D. H.
Begun, S. J.
Bell, A. L.
Beloungy, J. J.
Benkelman, G. F.
Benning, H. H.
Bennett, G. T.
Bennett, H. S.
Bennett, R.
Bennett, R. D.
Bennett, W. R.
Beranek, L. L.
Bereskin, A. B.
Berger, U. S.
Bergren, A. L.
Berkley, J. B.
Bernier, J. C.
Bernstein, H. E.
Bertram, S.
Betts, P. H.
Beyer, J. W.
Bhatt, N. B.
Bingley, F. J.
Binyon, B.
Bird, R. J.
Biser, M. H.
Bishop, J. B.
Bishop, N.
Biskner, L. J.
Bitter, A. R.
Black, D. M.
Black, K. C.
Black, L. J.
Black, W. L.
Blahna, C.
Blasi, E. A.
Bleil, F. J.
Bliss, W. H.
Bloom, J. D., Jr.
Bloomer, T. M.
Bode, H. W.
Boerner, T. J.
Boese, W. C.
Bohren, A. K.
Bollman, J. H.
Bond, C. H.
Bond, D. S.
Bond, M. E.
Bond, W. L.
Bonney, R. B.
Booker, H. G.
Boone, E. M.
Boothroyd, W. P.
Bossart, P. N.
Boswau, H. P.
Bourland, L. T.
Boucheron, P.
Boundy, G. G.
Bousky, S.
Bowden, B. V.
Bowen, A. E.
Bower, J. L.
Bowie, W. S.
Boyajian, J. A.
Boyce, C. F.
Boymel, B.
Bozzoli, G. R.
Braaten, A. M.
Brackett, O. A.
Bradley, W. E.
Brady, F. B.
Brady, J. B.
Brainerd, J. G.
Bramhall, F. B.
Brand, P. M.
Brauer, H. H.
Breazeale, W. M.
Breeze, J. E.
Brereton, C. H.
Brewster, F. C.
Brick, F. R., Jr.
Bridges, J. M.
Bridgland, C. J.
Briggs, L. A.
Briggs, M. R.
Briggs, T. H.
Brigham, C. E.
Brillouin, L. N.
Brittin, F. L.
Broding, R.
Brolly, A. H.
Brophy, R. M.
Brooker, V. M.
Bronwell, A. B.
Brothers, J. T.
Brott, F. J.
Brouse, H. L.
Brown, A. S.
Brown, B. F. A.
Brown, C. W.
Brown, G. M.
Brown, J. E.
Brown, W. J.
Brown, W. N., Jr.
Brown, W. W.
Browne, G. C. W.
Brownell, G. T.
Browning, G. H.
Bruce, E.
Bruck, G. G.
Brumbaugh, J. M.
Brunetti, C.
Brunet, M.
Brunner, G. V.
Bryant, N. W.
Buchanan, A. B.
Buckthal, E. P.
Budenbom, H. T.
Bulgin, A. F.
Bull, V. G.
Burgess, W. B.
Burghard, G. E.
Burke, R. J.
Burley, F. E.
Burnell, L. G.
Burnett, C. E.
Burns, E. E.
Burns, R. O.
Burnside, C. J.
Burnside, D. G.
Burrill, C. M.
Burroughs, F. L.
Burroughs, H. A.
Burton, E. T.
Bush, G. P.
Bushby, T. R. W.
Buss, R. R.
Bussard, E. J. H.
Byerlay, H. L.
Byrne, J. F.
Byrnes, I. F.

C

Cage, J. M.
Cahill, F. C.
Cahoon, R. D.
Cairnes, W. E.
Caldwell, J. J., Jr.
Caldwell, L. G.
Callahan, J. L.
Callanan, J. A.
Calvelo, J. P.
Cambridge, C. G.
Campbell, J. A.
Campbell, R. D.
Campbell, R. L.
Campbell, V. H.
Campbell, W. H.
Canavaciol, F. E.
Canon, H. B.
Caplan, R. S.
Carlson, R. F.
Carlson, W. L.
Carnahan, C. W.
Carnes, W. T., Jr.
Carpenter, D. D.
Carpenter, R. E. H.
Carroll, M. J.
Carter, C. J.
Carter, P. S.
Carter, R. H. A.
Carter, W. H., Jr.
Case, N. P.
Castle, D. H.
Catt, J. E.
Cattell, G. W.
Chaffee, J. G.
Chakravarti, S. P.
Chambers, C. C.
Chambers, J. A.
Chance, B.
Chaney, J. G.
Chase, C. T.
Chauvierre, M.
Chesney, A. P.
Chesnut, R. W.
Chick, A. J.
Chinski, G. R.
Chipman, R. A.
Chipp, R. D.
Chodorow, M.
Christaldi, P. S.
Christensen, J. W.
Church, J. F.
Cimorelli, J. T.
Clapp, R. G.
Clark, A. B.
Clark, H. T.
Clark, J. F., Jr.
Clark, J. H.
Clark, R. G.
Clark, T. H.
Clark, W. B.
Clark, W. R.
Clarke, A. S.
Cleeton, C. E.
Clement, A. W.
Clements, S. E.
Cline, J. F.
Closson, L. E.
Cobb, F. A.
Cobine, J. D.
Cochran, L. B.
Code, J. A., Jr.
Coe, R. L.
Cogswell, W. P.
Cohen, S.
Cohen, T. A.
Cohn, H.
Cole, D. D.
Cole, N. D.
Cole, R. I.
Coles, F. A.
Coles, R. V.
Collison, P. B.
Colmar, P. V.
Colton, R. B.
Colwell, R. C.
Condon, E. U.
Conrad, R. S.
Conron, W. H.
Conte, T. M.
Content, E. J.
Cooke, N. M.
Cooke, W. T.
Coomes, E. A.
Copp, J. H.
Coram, R. E.
Corbett, C. W.
Corderman, R. C.
Cornell, J. I.
Corwith, H. P.
Cotter, W. F.
Courchene, H. B.
Courtenay, J. A.
Cowan, F. A.
Cox, R. T.
Coxhead, H. B.
Coykendall, J. C.
Craib, J. F.
Craig, P. H.
Craig, P. M.
Crampton, W. J.
Crane, R. E.
Crane, W. K.
Crawford, A. B.
Crawford, A. L., Jr.
Crawford, J. D.
Crew, W. H.
Crom, G. C.
Crooks, R. K.
Crosby, D. R.
Crosby, H. M.
Crosley, P., Jr.
Crossley, A.
Crossley, G. L.
Cruse, A. W.
Cullwick, E. G.
Culver, C. A.
Cumming, K. N.
Cumming, L. G.
Cummings, B. R.
Cummings, J. J.
Cummings, K. M.
Cunningham, F. W.
Cunningham, O. B.
Curran, G. W.
Curtis, L. F.
Curtiss, A. N.
Cutrona, L. J.

D

Dalgleish, J. W.
Dallin, E. B.
Dane, F. W.
Daniell, C. M.
Daniels, T. E.
Darlington, E. S.
Dart, H. F.
Darwin, F. A.
David, B. W.
Davids, H. H.
Davidson, W. F.
Davies, R. H.
Davies, G. L.
Davis, C. L.
Davis, D. M.
Davis, G. C.
Davis, J.
Davis, R. J.
Davis, T. M.
Dawson, H. S.
Day, G.
Deal, H. B.
Dean, C. E.
Dean, W. W. H.
Dean, W. W.
Deardorff, R. W.
Dearle, R. C.
De Armond, J. K.
DeBivar, A. M. B.
Decino, A.
DeCola, R.
Deeley, P. M.
Deerhake, F. M.
Deiler, T. G.
Deisinger, D. A.
Della-Corte, J. P.
Demarest, C. S.
DeMello, W.
DeNeuf, D. K.
Dennis, J. L.
Denstaedt, E. C.
DeOliveira, A. M.
Depp, W. A.
Detar, D. R.
Deuth, A. F.
DeVore, H. B.
Devore, L. T.
Dewalt, K. C.
Dewitt, J. H., Jr.
D'Heedene, A. R.
D'Humy, F. E.
Dickey, E. T.
Dickieson, A. C.
Dickinson, W. A.
Dietzold, R. L.
Dillingham, H. C.
Dimmer, R. P.
Dinger, H. E.
Dingley, E. N., Jr.
Dishal, M.
Distad, M. F.
DiToro, M. J.
Diver, F. G.
Dixon, G. P.
Dobbie, L. G.
Dodds, W.
Dodge, S. W.

Dolbear, B. L.
Doll, E. B.
Doll, H. G.
Donal, J. S., Jr.
Donald, D. D.
Dondanville, R. V.
Donley, H. L.
Donnelly, A. V.
Donovan, W. E.
Doolittle, F. M.
Doremus, J. A.
Dow, W. G.
Dowie, J. A.
Downie, J. W.
Downing, J. J.
Downs, G. W., Jr.
Drake, F. H.
Drake, R. E.
Drake, R. L.
Drew, C. E.
Dresser, W. R.
Dreyer, J. F., Jr.
Druz, W. S.
Dubinin, A. V.
Dudley, H. W.
Dudman, V. H.
Duffendack, O. S.
Duncan, R. C.
Duncan, R. D., Jr.
Duncan, R. L.
Dunlap, O. E., Jr.
Dunn, L. J.
Dunn, W. L.
Dunning, O. M.
Dupree, E. M.
Dupree, F. H.
Dushman, S.
DuTreil, L. J. N.
Duttera, W. S.
Dyer, J. N.

E

Eager, M.
Earnshaw, D. P.
Earp, C. W.
East, L. A. W.
Easton, I. G.
Eaton, W. G.
Eaves, A. J.
Ebel, A. J.
Eckert, C. C.
Edson, J. O.
Edson, W. A.
Edwards, B. J.
Edwards, P. G.
Eells, M. M.
Ehrbar, R. D.
Eichel, J. H.
Eilenberger, S. D.
Eiselein, J. E.
Ekstrand, P. A.
Elder, T. A.
Eldred, W. N.
Eliasen, E.
Elliott, H. F.
Ellis, W. G.
Ellithorn, H. E.
Ellsworth, W. C.
Eltgroth, G. V.
Emerson, K. H.
Emery, E. J.
Emery, W. L.
Emurian, A. D.
Engel, F. H.
Engelman, C. L.
Engstrom, O. D.
Engwicht, H.
Epperson, J. B.
Epstein, D. W.
Epstein, J.
Evans, H. J.
Evans, H. W.
Everest, F. A.
Everett, L., Jr.
Ewing, D. H.
Ewing, L. M.
Exon, F. C.

F

Farel, V. M.
Farkas, F. S.
Farley, T. S.
Farley, W. W. III.
Faulkner, H.
Fay, C. E.
Felch, E. P.
Felix, E. H.
Fenton, A. N.
Ferguson, J. C.
Ferguson, J. D.
Ferguson, J. G.
Fernsler, G. L.
Ferrar, R. C.
Ferrell, E. B.
Ferrier, D. T.
Ferrill, T. M., Jr.
Ferris, W. R.
Ferry, M.
Fetsch, J. T.
Fett, G. H.
Fetzer, J. E.
Fick, C. G.
Fiedler, G. J.
Filgate, J. T.
Finch, J. L.
Finch, W. G. H.
Findlay, J. H.
Findley, L. K.
Findley, P. B.
Fingerle, W., Jr.
Finnigan, C. W.
Fischer, F. W.
Fischer, H. B.
Fish, P.
Fisher, B. A.
Fisher, G.
Fisher, R. C.
Fisher, S. T.
Fisher, W. P.
Fishman, S.
Fitch, W. A.
Flannagan, C.
Fletcher, E. S.
Flewelling, J. D.
Flocken, L. H.
Flory, L. E.
Florez, H.
Flynn, R. M.
Focke, A. B.
Forbes, A. C.
Ford, W. A.
Forsyth, P. G.
Foster, D. E.
Foster, R. F.
Fowler, N. B.
Fox, A. G.
Fox, R. A.
Franklin, J. C
Franklin, L. W.
Frankel, S.
Franks, C. J.
Frantz, G. R.
Frazier, H. S.
Frear, W.
Fredendall, G. L.
Freedman, S.
Freeman, E. E.
Freeman, R. L.
Freeman, W. C., Jr.
French, B. V. K.
Freundlich, M. M.
Frey, A. R.
Friend, A. W.
Friend, H. H.
Frink, F. W.
Frink, O., Jr.
Friedlaender, E. R.
Friis, R. W.
Fritschel, E. H.
Fromageot, A. P. A.
Fruth, H. F.
Fubini, E. G.
Fultz, M. E.
Fyler, G. W.

G

Gable, A. C.
Gabler, R. T.
Gaffney, F. J.
Gager, F. M.
Gaines, B. R.
Gainsborough, G. F.
Galbraith, R. A.
Galbraith, R. A. H.
Gamertsfelder, G. R.
Gannaway, R.
Gannett, D. K.
Gano, A. S.
Garard, E. A.
Gardiner, P. C.
Gardner, F. H.
Garrison, M. M.
Garstang, W. W.
Gates, H. A.
Gawler, H. C.
Gebhard, L. A.
Gee, W. C.
Geiger, D. G.
Geist, H. J.
Gellerup, D. W.
General, J.
George, R. W.
Gerks, I. H.
Gessford, R. K.
Getting, I. A.
Ghirardi, A. A.
Giannini, G. M.
Giboin, E.
Gibson, W. T.
Gieringer, C. K.
Giese, R. C.
Giet, G. R.
Gilbert, W. E.
Gillies, J. H.
Gillson, M. H.
Gilman, G. W.
Ginzton, E. L.
Giordano, A. B.
Girard, E. J.
Glaser, E. M.
Glasgow, R. S.
Glauber, J. J.
Gleason, H. H.
Gleason, R. J.
Glenn, A. B.
Glover, A. M.
Glover, R. P.
Gluyas, T. M., Jr.
Goddard, C. T.
Goddard, D. R.
Goldberg, H.
Goldman, S.
Goldsmith, T. T., Jr.
Goldstein, M. K.
Goldstine, H. E.
Goodale, E. D.
Goodall, W. M.
Goodwin, W. N., Jr.
Gove, E. L.
Goyder, C. W.
Graf, A. W.
Graham, B.
Graham, H. U.
Graham, R. B.
Grant, I. C.
Green, E. I.
Green, J. A.
Greer, J. W.
Greig, J.
Grierson, C. A. W.
Grignon, L. D.
Grieg, D. D.
Griffing, B. L.
Griffiths, H. V.
Griffiths, W. H. F.
Grimditch, W. H.
Gross, E. E., Jr.
Gross, G. C.
Grosselfinger, W. H.
Grossman, H.
Grover, F. W.
Grover, H. G.
Groves, W. E.
Guarino, P. A.
Gubin, S.
Guest, W. T.
Guild, B.
Gunn, R.
Gunther, F. A.
Gunzbourg, P. M.
Gurewitsch, A. M.
Guthrie, F. P.
Guzzi, P. N.

H

Haedecke, A. D.
Haeff, A. V.
Hagen, J. P.
Hagey, W. C.
Hahn, W. C.
Hailes, W. D.
Haines, D. G.
Hale, N. H.
Hall, A. C.
Hall, E. L.
Hall, L. S.
Hall, N. I.
Hall, W. M.
Hallenbeck, F. J.
Haller, C. E.
Haller, G. L.
Hallman, L. B., Jr.
Hallmark, C. E.
Halstead, W. S.
Hamburger, F., Jr.
Hamilton, D. R.
Hamlett, R. T.
Hammann, P. L.
Hammerschmidt, A. L.
Hammond, J. H., Jr.
Hammond, J. W.
Hammond, R. E.
Hanchett, G. D., Jr.
Hancock, G. N.
Hanna, C. R.
Hanscom, W. W.
Hansell, G. E.
Hansen, E. H.
Hanson, F. E.
Hanson, G. N.
Hardwick, A. H.
Harmon, R. N.
Harmon, W. S.
Harries, J. H. O.
Harris, D. B.
Harris, F.
Harris, H. H.
Harrison, A. E.
Hartig, H. E.
Hartz, J. E.
Harvey, H.
Harvey, R. L.
Haskins, R. L.
Hassel, K. E.
Hastings, C. E.
Hastings, T. M., Jr.
Hatchett, S. E.
Hatfield, L. N.
Hathaway, D. L.
Hathaway, J. L.
Haubert, A.
Hauck, V. D.
Hausz, W.
Havens, B. L.
Haxby, R. O.
Haycock, O. C.
Hayes, E. A.
Hayes, H. D.
Headrick, L. B.
Heath, F. J.
Heaton, V. E.
Heaton-Armstrong, L. J.
Hector, L. G.
Heffelfinger, J. B.
Hegbar, H. R.
Heindel, H. J.
Heiser, E. S.
Heller, J. I.
Henderson, J. P.
Henderson, J. T.
Henderson, R. A.
Hendricks, L. A.
Henry, T. J.
Herber, J. C.
Herbst, P. J.
Herbstreit, J. W.
Herndon, L. C.
Herndon, P. H., Jr.
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ZIEGLER, GEORGE E. (SM'46), Executive Scientist, Midwest Research Institute, 4049 Pennsylvania Ave., Kansas City 2, Mo. Mail: 1749 W. 49 St., Kansas City 2, Mo.

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ZLATIN, NORMAN (A'43), Research Engineer, The Cincinnati Milling Machine Company, Cincinnati 12, Ohio. Mail: 6023 Yosemite Dr., Cincinnati 12, Ohio.

ZOBEL, EUGENE R. (A'42), Chief Engineer, Radio Station KNOX, Box 1110, Grand Forks, N. Dak. Mail: Fessenden, N. Dak.

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ZOTTU, PAUL D. (A'31–M'38–SM'43–F'44), President, Electronic Heating Equipment Manufacturing Company, 85 Commercial Ave., Cambridge 42, Mass Mail: 95 Country Club Rd., Newton Centre 59, Mass.

ZUCKERBERG, HARRY (A'47), 570 Ft. Washington Ave., New York 33, N.Y.

ZUCKERMAN, JOHN V. (A'46), Director, Radio Workshop, Audio-Visual Aids Program, Stanford University, Calif. Mail: 8280 W. 4 St., Los Angeles 36, Calif.

ZUPNICK, IRVIN N. (A'45), Engineer, Airtronics, 33 Union Sq., New York 3, N.Y. Mail: 768 Linden Blvd., Brooklyn 3, N.Y.

ZURAKOV, STANLEY D. (M'46), Assistant Senior Engineer, Belmont Radio Corporation, 5921 W. Dickens Ave., Chicago 13, Ill. Mail: 647 W. Sheridan Rd., Chicago 13, Ill.

ZURBRIGGEN, JOHN H. (A'47), Fish, Bach, and Moore, New York, N.Y. Mail: 2109 E. Fair St., St. Louis 7, Mo.

ZURCHER, LESTER A. (A'42), Radio Engineer, Evans Signal Laboratory, Belmar, N.J. Mail: 41 Belshaw Ave., Alfred Vail Homes, Eatontown, N.J.

ZUSCHLAG, THEODORE (A'42), Director of Research, Magnetic Analysis Corporation, 42-44 12 St., Long Island City 1, L.I., N.Y. Mail: 1108 Magnolia Rd., West Englewood, N.J.

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ZWEIFEL, FRED A. (A'45), Electronics Engineer, U.S. Naval Shipyard, San Francisco 24, Calif. Mail: 2671 46 Ave., San Francisco, Calif.

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ZWICK, GEORGE (S'40–A'41), 62 Leroy St., New York 14, N.Y.

ZWORYKIN, VLADIMIR K. (M'30–F'38), Director of Electronic Research, Vice-President, and Technical Consultant, RCA Laboratories Division, Princeton, N.J. Mail: 103 Battle Road Cir., Princeton, N.J.

ZYGMUNT, HENRY J. (A'40–M'47), Design Engineer, Union Switch and Signal Company, Braddock Ave., Swissvale, Pa. Mail: 201 Talbot Ave., Braddock, Pa.

GEOGRAPHICAL LISTING OF MEMBERSHIP

The following list gives in geographical order the names of all members, except those of Student grade, as of December 31, 1947.

UNITED STATES

ALABAMA

Auburn
Chako, N. (M)
Clements, C. C. (A)
McAfee, P. H., Jr. (A)
Saunders, G. H. (A)

Birmingham
Bell, J. C. (A)
De Wolf, J. B., Jr. (A)
Gray, C. M. (A)
Jones, R. M., Jr. (A)
Murphree, F. J., Jr. (A)
Siddle, W. T. (A)

Maxwell Field
Moreland, H. H. (A)

Mobile
Andrews, E. W. (A)
Baucum, P. G. (M)
Moody, C. S. (A)

Montgomery
Bugg, K. W. (A)
Lehr, O. A. (A)
MacDowell, J. E. (A)

Troy
Bullock, J. M. (A)

Tuscaloosa
Todd, T. H. (M)

ARIZONA

Aguila
Nelson, C. O. (A)

Benson
Naegle, M. A. (A)

Casa Grande
Wittenburg, C. W. (A)

Kingman
Wallace, P. H. (A)

Mesa
Ham, N. C. (A)

Phoenix
Carter, D. F. (A)
Hoff, A. H. (A)
Jacobs, H., Jr. (A)
Jones, R. F. (A)
Kidwell, W. M. (A)
McFaul, Z. F. (A)
Parker, W. H., Jr. (A)
Phillips, T. A. (M)
Stone, D. F. (A)
Tillman, J. E. (A)
Wortman, L. A. (A)
Young, P. G. (M)

Safford
Hartman, H. (A)

Snowflake
Smith, V. M. (A)

Tempe
Merritt, C. H. (A)

Thatcher
Hitt, W. R. (A)

Tucson
Bartholomew, D. (A)
Bookman, R. E. (A)
Halpern, L. (A)
Stewart, H. E. (A)
Thibodeau, J. E. (A)

ARKANSAS

Carlisle
Clayton, J. W. (A)

Fayetteville
Leonard, C. G. (A)
Scott, G. H. (A)

Harrison
Walker, H. E. (A)
Watkins, L. C., Jr. (A)

Hope
Klipsch, P. W. (SM)

Little Rock
Glasgow, W. S. (A)
Kimball, V. L. (M)
McClung, R. R. (A)

Siloam Springs
Hutton, J. E. (A)
Maxwell, K. D. (A)

Van Buren
Duval, G. (A)

CALIFORNIA

Alameda
Anderson, R. I. (A)
Comer, W. C. (A)
Lawrence, M. J. (A)
Love, C. E. (A)
McNulty, J. W. (A)

Albany
Crandall, W. E. (A)
Drake, D. T. (M)
Hartwigsen, C. K. (A)
Sorenson, E. G. (M)
West, L. (A)

Alhambra
Cary, H. H. (A)
Miller, G. R. (A)
Montgomery, D. N. (A)
Mueller, F. W. (A)
Preston, M. D. (A)
Seidner, O. R. (A)
Smith, E. (M)
Welliver, C. L. (A)
Whitacre, D. P., Sr. (M)

Altadena
Blackman, W. S. (A)
Braun, V. J. (M)
Carpenter, F. R. (A)
Ellis, A. T. (A)
Hall, S., III (A)
Marlow, D. G. (A)
Pennycook, W. D. (A)
Phillips, E. V. (A)
Ruebhausen, V. (A)
Shuey, C. W. (A)
Sink, R. L. (A)
Wedel, J. J., Jr. (A)
West, L. E. (SM)
Younger, U. E. (A)

Alturas
Euler, K. C. (A)

Anaheim
Hopkins, E. L. (A)

Angwin
Gray, K. B. (A)

Aptos
Wrathall, G. R. (A)

Arcadia
Babeaux, A. G. (A)
David, J. (A)
Jackson, W. H. (A)
Jones, J. G. (VA)
Turner, W. (A)

Azusa
Thomson, B., Jr. (A)

Bakersfield
Clement, P. F. (VA)
Kirk, H. E. (A)
Mitchell, P. P. (A)
Peters, S. J. (A)
Vernon, R. W. (A)
Whiting, W. E. (M)

Balboa Island
Hansen, E. H. (SM)

Barstow
Bowen, W. (A)

Bell
Stenger, F. J. (M)

Bellflower
Agnew, W. B. R. (A)
Bentall, C. R. (A)
Sievers, W. C. (A)

Bell Gardens
Adams, R. L. (A)

Belmont
Hulstede, G. E. (A)
Hyne, A. D. (A)
Shoemaker, W. J. (A)

Benicia
Manov, F. S. (A)

Berkeley
Anger, H. O. (A)
Bonner, H. W. (A)
Bruns, R. A. (M)
Cattell, G. W. (SM)
Chase, R. C. (A)
Clapp, F. D. (M)
Cole, B. R. (M)
Conlisk, R. L. (A)
Conner, R. E. (A)
Conway, J. (A)
Davis, D. D. (VA)
Dexter, G. W. (A)
Ellis, J. W., Jr. (A)
Elsken, R. H. (A)
Evans, R. A. (A)
Farly, G. M. (VA)
Farnsworth, H. D. (VA)
Fa s, S. J. (VA)
Flock, W. L. (A)
Freeman, E. D. (A)
Goodman, D. H. (A)
Hallikianen, K. E. (VA)
Hartke, D. C. (A)
Hartzell, A. J., Jr. (A)
Haubrock, F. W. (A)
Jones, F. C. (VA)
Keller, J. E. (A)
Kettinger, L. H. (A)
Lindblom, R. O. (A)
Lindheim, S. (A)
Linton, R. L., Jr. (M)
Mack, D. A. (A)
Maeshner, E. E. A. (A)
Mains, M. C. (A)
McKinney, L. F. (A)
Moore, E. J. (A)
Morton, P. L. (SM)
Mozley, R. F. (A)
Nielsen, G. A. (A)
Noller, W. E. (SM)
Ogg, R. D. (A)
Relf, K. E. (A)
Reukema, L. E. (SM)
Robertson, R. D. (A)
Salisbury, W. R. (A)
Sedon, P. H. (A)
Selsted, W. T. (A)
Shuey, R. L. (A)
Silver, S. (M)
Sleeper, G. E., Jr. (VA)
Smith, B. H. (A)
Smith, O. J. M. (M)
Sterns, W. G. (M)
Tonjes, V. H. (M)
Toulis, W. J. (A)
Waddell, J. F. (A)
Ward, O. C. (A)
Whinnery, J. R. (SM)
White, M. J. (A)
Williams, C. S. (A)
Woodyard, J. R. (VA)

Beverly Hills
Atkinson, J. M. (A)
Barnett, A. H. (A)
Bradley, C. E. (A)
Halpern, R. L. (A)
Kuh, M. E. (A)
Matsumoto, E. (A)
Meadows, E. A. (A)
Rutherford, C. E. (A)
Torian, R. B. (A)
Wolcott, C. F. (SM)

Bishop
Rudolph, E. (VA)

Bolinas
Matthews, D. W. (A)
Volberg, F. J. (A)

Burbank
Anderson, R. W. (A)
Baumeister, E. M. (A)
Bennett, P. L. (M)
Brockway, D. C. (VA)
Davis, A. (M)
Everett, F. A. M. (VA)
Hodson, W. G. (M)
Lloyd, A. T. (A)
Martin, R. D. (M)
Martin, W. R. (A)
Mussen, K. R. (A)
Parker, A. T. (M)
Rubel, J. H. (A)
Schlegel, R. E. (A)
Shrader, V. L. (A)
Skiles, G. W. (A)
Ward, R. O. (A)
Ward, S. A. (M)
Weatherford, R. V. (A)
Woodard, T. C. (A)
Worthen, W. L. (A)

Burlingame
Eldred, W. M. (SM)
Pottberg, W. J. (A)

Camarilo
Coe, J. C. (VA)
Johnson, S. F. (M)

Campbell
Stone, D. L. (A)

Canoga Park
Peterson, M. C. (A)
White, G. E. (SM)

China Lake
Pike, B. W. (M)

Chula Vista
Chiles, J. R., Jr. (A)
Curtis, H. A. (A)
Taylor, G. E. (A)
Treston, P. (A)
Voss, H. R. (A)
Willis, H. R. (M)
Yager, J. C. (A)

Colfax
Petersen, M. C. (A)

Colton
Hannaford, J. C. (A)

Compton
Allen, F. C. (A)
Begley, W. W. (M)
Hodgson, R. W. (A)
Jackson, K. R. (M)
McLaughlin, W. F. (A)

Corona
Schlegel, C. J. (A)

Coronado
Christensen, R. J. (M)
Franklin, R. A. (M)
Garard, E. A. (SM)
Leftwich, L. L. (M)
McNeese, S. J. (A)
Schaefer, R. W. (A)

Corte Madera
Weddell, H. W. (A)

Covina
Clark, J. H. (SM)
Finch, T., Jr. (A)

Culver City
Allen, B. G. (A)
Anderson, W. E. (A)
Burns, G. A. (VA)
Coleman, S. A. (A)
Frye, W. E. (A)
Fulton, A. S. (A)
Guptill, H. R. (A)
Hebenstreit, W. B. (A)
James, G. E. (A)

Cupertino
Gillmeister, F. W. (VA)
Varian, R. H. (A)

Davis
Townsend, J. W. (A)

Delano
Beranek, J. A. (M)
Russell, J. D., Jr. (A)

Del Rey
Crosby, H. J. (A)

Dixon
Curtis, T. J. (A)
Donahue, J. (M)
Donahue, W. J. (A)
Love, B. E. (VA)
Martin, N. A. (M)
Osborn, W. C. (A)

Downey
Adcock, R. G., Jr. (A)

Duarte
Crain, J. T. (A)
McMenomey, J. M. (A)

Dunsmuir
Pate, C. W. (A)

Eagle Rock
Anderson, R. T. (A)

East Del Paso Heights
Smart, M. E. (A)

El Centro
Kellogg, S. R. (A)

El Cerrito
Anson, C. T. (VA)

El Monte
Hayes, E. A. (SM)
Mauer, D. J. (A)
Squire, R. C. (A)

El Segundo
Mesak, C. (A)
Wilson, T. A. (A)

Encino
Chesney, A. P. (SM)

Escondido
Moore, R. M. (VA)

Eureka
Hauser, C. R. (M)
Olson, A. E. (A)
Smullin, W. B. (A)

Fillmore
Stewart, W. A. (A)

Firebaugh
Bales, R. R. (A)

Flintridge
Blasier, H. E. (VA)

Fort Jones
Fowler, J. A. B. (A)

Fresno
Bartlett, P. R. (A)
Brown, H. R. (A)
Foin, O. F., Jr. (M)
Gerner, A. J., Jr. (A)
Schuler, R. M. (A)
Simpson, H. J. (VA)

Fullerton
Riffe, L. (A)

Gardena
Brown, M. H. (A)
Cornell, L. L. (A)
Harris, A. W. (A)
McKay, R. L. (M)
Thompson, R. B. (A)
West, S. F. (A)

Garvey
Doeleman, H. (A)

Glendale
Adams, R. P. (A)
Auerbach, M. (A)
Brown, C. M. (A)
Curran, G. W. (SM)
Dent, W. V. (A)
Foster, D. E. (SM)
Freck, R. H. (A)
Gehr, G. A. (A)
Greenwood, D. T. (A)
Haas, C. H. (M)
Heinmiller, B. P. (A)
Huntsman, H. F. (A)
Kelly, E. L. (A)
Kenkel, H. H. (A)
Kennedy, M. E. (SM)
Koerner, C. T. (VA)
Labby, D. M. (M)
Miller, C. E. (A)
Morecroft, J. H., Jr. (SM)
Newcomb, R. (VA)
Olson, C. P., Jr. (A)
Read, G. W. (VA)
Richey, F. (M)
Schnakenburg, C. J. (A)
Scoville, R. R. (SM)
Stampalia, J. T. (A)
Swenson, A. N., Jr. (A)
Weil, F. M. (M)
Welke, P. L. (A)

Glendora
Wolf, C. M. (VA)

Grass Valley
Peters, E. P. (A)

Hamilton Field
Wicker, J. L. (M)

Hanford
Linville, E. H. (A)

Hawthorne
Butler, A. G. (VA)
Goodell, E. M. (M)
Heaverlo, H. D. (A)
Mullins, R. M. (M)
Williams, C. (A)

Hermosa Beach
Phelps, W. H. (A)

Hollywood
Albin, F. G. (A)
Anderson, G. R. (A)
Barkley, H. F. (VA)
Boatright, B. C. (M)
Bowman, L. H. (M)
Brooke, R. O. (A)
Bryant, H. L. (A)
Corey, E. J. (A)
Culley, L. D. (VA)
Dean, J. P. (A)
Denechaud, R. G. (VA)
Denney, B. H. (A)
De Wolfe, G. C. (A)
Finegood, D. (M)
Goodwin, P. S. (M)
Heineman, J. T. (VA)
Iannelli, E. (M)
Lubcke, H. R. (SM)
Mac Kenzie, L. G. (A)
Moore, M. E. (VA)
Mueller, W. A. (VA)
Murtough, W. L. (A)
Neely, N. B. (A)
Paddock, R. B. (M)
Rabinoff, C. V. (A)
Ross, E. H. (M)
Sawyer, G. E. (VA)
Schick, H. G. (M)
Shill, H. F., Jr. (A)
Stark, H. P. (A)
Stilgenbauer, R. M. (A)
Stoddart, R. R. (SM)
Taylor, R. W. (A)
Theodore, C. (A)
Urey, G. M. (A)
Wells, W. B. (VA)
Willey, L. E. (M)
Wyland, G. P. (A)

Huntington Beach
Linton, T. B. (A)

Huntington Park
Eaton, R. D. (M)
Gilliam, C. E. (A)
Griffith, M. H. (VA)
Julien, I. F. (SM)
Reynolds, R. K. (A)
Sanders, L., Jr. (A)

Inglewood
Ash, W. H. (A)
Boyer, B. E. (A)
Brewer, A. F. (M)
Degner, E. W. (A)
Dickinson, W. E. (A)
Foote, S. H. (A)
Hill, W. B. (A)
Howard, L. W. (SM)
Kayner, H. J. (SM)
Sawyer, B. A. (A)
Schwank, R. H. (A)
Smith, H. E. (A)
Stevens, J. E. (A)
Vose, A. W. (M)
Wells, W. W. (A)
Wick, O. F. (A)
Yeutter, L. D. (A)

Inverness
Matthews, W. I. (M)
Moorhead, G. H. (VA)

Inyokern
Allen, R. B. (A)
Anderson, A. B. C. (A)
Ashbrook, F. M. (M)
Gregory, J. H. (M)
Lawrence, B. E. (A)
Roberts, C. E. (A)
Rosenberg, H. W. (A)
Toporeck, E. R. (A)
Warner, S. D. (M)

Jackson
Van Thiel, J. (VA)

Kentfield
Conrad, R. C. (M)

La Canada
Barnes, C. B. (A)
Duncan, J. G. (A)
Templin, E. W. (SM)

La Cresenta
O'Neil, W. T. (A)
Roughton, E. R. (A)

Lafayette
Chattin, C. W., Jr. (A)

Laguna Beach
Brown, J. K. (A)

La Jolla
Bryan, H. E. (A)
Cartwright, L. A. (M)
Chadbourne, H. L. (A)
Coleman, G. M. (A)
Griffin, S. J. (A)
Huntington, A. (M)
Iglesias, H. B. (A)
Ivans, W. S., Jr. (A)
Liddiard, G. E. (A)
Panernow, L. N. (A)
Tidmarsh, G. P. (A)
Welch, W. E. (A)
Wells, T. H. (A)

Lakeside
Gimble, E. G. (M)

La Mesa
Bender, J. H. (A)
Fraser, C. H. (A)
Grumbein, P., Jr. (VA)
Macy, S. A. (VA)
Maninger, R. C. (M)
Schart, W. J. (A)
Seddon, S. W. (M)
Walker, W. D. (A)

Larkspur
Cherry, C. E. (VA)

La Verne
Fryer, E. M. (A)

Lawndale
Bullock, W. W. (M)

Lemon Grove
Leeper, C. S. (A)

Lennox
Egnoian, A. (A)

Lodi
Lerza, F. F. (VA)
O'Donnell, H. C. (A)

Lomita
Carvill, R. W. (A)

Long Beach
Adkins, A. W. (M)
Arnold, D. C. (A)
Cole, B. T. (A)
Dean, N. W. (A)
Farrand, C. E. (A)
Goble, R. W. (A)
Grammes, E. G., Jr. (A)
Hurley, R. B. (A)
Jones, G. V. (A)
Koehler, R. L. (A)
Kurtz, L. A. (A)
Levis, O. C., Jr. (A)
Ley, E. W. (A)
Masin, G. F. (M)
Murphy, S. A. (A)
Newhouse, G. B., Jr.
Oakley, R. (A)
Pelc, T. (A)
Petersen, E. L. (M)
Racine, G. A. (A)
Smith, H. L. (VA)
Spear, L. P. (A)
Sternke, E. C. (A)
Tapp, J. E. (M)
Weston, L. B. (A)
Williams, M. A. (M)

Los Altos
Elwell, C. F. (F)
Miller, H. C. (VA)
Packard, D. (SM)
Stafford, C. I. (A)
Wholey, W. B. (M)

Los Angeles
Abramis, B. D. (A)
Ackerlind, E. (VA)
Adams, R. E. (VA)
Alagna, G. I. (A)
Albrecht, A. (A)
Alt, R. A. (A)
Barnard, R. E. (A)
Barrett, G. D. (A)
Barrett, R. D. (A)
Barron, B. (A)
Beach, O. R. (A)
Bechtold, I. C. (A)
Becker, L. S. (A)
Beckstead, D. L. (A)
Berman, I. (A)
Bersbach, A. J. (A)
Bertolet, E. C. (M)
Bettencourt, V. S. (A)
Blackman, B. G. (A)
Blake, J. B. (M)
Blicken derfer, J. A. (A)
Bonney, R. B. (SM)
Bowler, J. A. (A)
Breeden, W. (A)
Brittain, L. B. (A)
Brockway, W. W. (VA)
Brown, J. E. (A)
Brown, J. H. (A)
Brown, N. M., Jr. (A)
Brubaker, G. P., Jr., (A)
Brubaker, J. W. (A)
Bryan, W. J. (A)
Bucknell, W. H. (VA)
Burbeck, D. W. (A)
Burr, K. L. (A)
Callen, R. J. (A)
Charles, W. K. (A)
Chase, N. C. (A)
Chew, B. Q. (A)
Chew, T. W. (M)
Cohen, J. S. (M)
Cole, F. H. (VA)
Comegys, C. W., Jr. (A)
Cook, R. O. (VA)
Crane, G. B. (A)
Crawford, W. M. (A)
Crozer, W. A. (A)
Cunningham, E. W. (VA)
Curl, G. W. (A)
Daily, C. R. (VA)
Darby, R. (A)
Davis, F. L. (A)
Davis, R. (A)
Deen, J. R. (A)
DeForest, L. (F)
Dempster, B. (M)
Denny, W. I. (A)
Denton, T., Jr. (A)
Dowers, A. A. (VA)
Down, M. A. (A)
Durham, G. E. (A)
Dye, R. C. (A)
Eckard, P. E. (A)
Eckert, J. A., Jr. (A)
Edgerton, A. K. (A)
Ellsworth, A. R. (A)
Emery, C. W. (A)
Estep, C. R. (VA)
Evans, H. C. (A)
Evans, H. W. (A)
Fenton, A. N. (SM)
Filizola, V. F. (A)
Firth, E. (A)
Fischer, B. (A)
Fiske, J. J., Jr. (A)
Flagg, R. M. (A)
Fodor, F. H. (VA)
Foulon, F. (A)
Fox, C. A. (A)
Frear, G. C. (A)
Frondorf, V. L. (A)
Fuller, C. A. (A)
Futterman, M. (A)
Gabler, R. T. (SM)
Gibbs, L. C. (A)
Gilvarry, J. J. J. (A)
Girardi, A. H. (A)
Glassford, H. A. (A)
Glovitsky, S. V. (M)
Gorton, G. D. (A)
Graff, B. J., Jr. (A)
Grant, E. W. (M)
Grater, V. M. (A)
Grignon, L. D. (SM)
Gunning, W. F. (A)
Hagopian, J. J. (A)
Haile, B. C., Jr. (A)
Hall, E. C. (A)
Handley, W. H. (A)
Hannum, D. E. (M)
Hanson, R. D. (M)
Hare, R. J. (VA)
Harmon, W. S. (SM)
Hartwick, F. C. (VA)
Hellenthal, A. W. (A)
Henry, S. (A)
Herbert, A. W. (A)
Herriman, T. D. (A)
Herrnfeld, F. P. (SM)
Hill, D. M. (A)
Hillstrom, N. W. (A)
Hindin, M. J. (A)
Hodge, J. (A)
Hoffman, L. E. (A)
Holmes, P. J. (A)
Horton, D. K. (A)
Hughes, H. M. (A)
Humphrey, J. E. (A)
Huth, D. L. (A)
Ingersoll, J. C. (A)
Ireland, F. (SM)
Jackson, R. S. (A)
Jackson, T. H. (M)
Jaeger, C. H. (A)
Jamieson, H. W. (M)
Jamison, J. W., Jr. (A)
Johnson, R. M. W. (M)
Jones, E. D. (A)
Kagan, M. F. (A)
Karaki, L. C. (A)
Kennedy, F. M. (SM)
King, S. W. (A)
Kinnell, P. (A)
Klein, W. S. (M)
Kliment, P. (A)
Knox, O. L. (A)
Kocher, J. R. (A)
Kouchnerkavich, T. A. (VA)
Krantz, C. H. (VA)
La Violette, R. F. (A)
Levy, S. E. (A)
Lew, H. W. (A)
Lindsay, W. W., Jr. (F)
Lipman, C. E. (A)
Lockard, R. E., Jr. (A)
Loudon, R. E. (A)
Loveberg, A. G., Jr. (A)
Lundstedt, H. E. (A)
Lynch, D. M. (A)
Manderfeld, E. C. (SM)
Marshall, G. E. (A)
Martin, V. G. (SM)
Mauritz, F. E. (M)
McAllister, J. T. (A)
McClanahan, R. T. (A)
McCulloch, C. B. (A)
McKenzie, D. S. (A)
McLemore, J. C. (A)
McNair, R. W. (A)
McRae, F. B. (M)
Meigs, V. C. (A)
Mengel, A. S. (A)
Metcalf, D. E. (VA)
Metcalf, H. E. (SM)
Miller, B. F. (SM)
Miller, W. B. (A)
Millstone, S. D. (A)
Mitchell, J. W. (A)
Moore, R. T. (A)
Moss, J. F. (A)
Neelands, R. (A)
Neuron, E. (A)
Newman, C. (A)
Nunan, J. K. (A)
Oelrich, M. C. (A)
Ogden, B. (A)
Ogg, G. R. (VA)
Olson, C. (VA)
Osborne, W. E. (A)
O'Sullivan, G. C. (A)
Otis, J. L. (A)
Overbey, C. O. (A)
Palmes, A. H. (A)
Pastor, C. C. (A)
Patterson, G. K. (A)
Paul, B. (VA)
Pearson, P. A. (M)
Pellegrino, J., Jr. (A)
Peterson, F. V. (A)
Peterson, W. E. (A)
Pierce, C. G. (M)
Pollard, J. M. (A)
Possner, J. B. (A)
Praschan, V. E. (A)
Radtke, W. H. (A)
Ramo, S. (SM)
Raymond, E. (A)
Reed, C. W. (A)
Reynolds, G. W. (A)
Rhoads, J. A. (A)
Rhodes, C. L. (A)
Richards, J. A. K. (A)
Richards, W. S. (VA)
Ritter, J. W. (M)
Robyn, A. (A)
Rodgers, G. H. (A)
Rogers, G. L. (A)
Rogers, T. A. (M)
Rogers, T. G. (A)
Rosenberg, B. G. (A)
Rowberg, A. F. (A)
Rozen, D. A. (A)
Rufo, J. D. (M)
Runnells, T. R. (A)
Sandler, B. (A)
Saxton, A. H. (A)
Schauers, C. J. (A)
Schmidt, B. F. (A)
Schmidt, J. C. (A)
Schreiber, E. H. (SM)
Schutheis, H. B., Jr. (A)
Selleck, R. S. (A)
Seltzer, L. J. (A)
Seltzer, L. J. (A)
Shaw, C. C. (A)
Shaw, R. G. (A)
Shuler, M. H. (A)
Silent, H. C. (VA)
Silk, N. R. (A)
Sill, K. B. (A)
Silva, J. D. (A)
Simonton, R. C. (A)
Skoller, M. (A)
Slyfield, C. O. (VA)
Smith, M. C. (A)
Sodaro, J. F. (A)
Sollars, R. C. (A)
Stafford, J. W. (M)
Stanton, I. W. (A)
Stewart, A. A. (A)
Stewart, J. L. (A)
Stine, C. E. (A)
Stone, C. A. (A)
Strapp, J. P. (A)
Sturdy, E. W. (A)
Style, N. V. (A)
Sugita, K. G. (A)
Sutherland, L. C. (A)
Swanson, E. R. (A)
Swarthe, E. (A)
Sylvester, T. D. (A)
Taylor, T. T. (A)
Teeuw, J. W. (A)
Tejada, L. H. (A)
Ter Veen, L. A. G. (A)
Thomsen, P. H. (SM)
Tobin, G. C. (A)
Trompeter, E. (A)
Tucker, V. L. (A)
Uecke, E. H. (A)
Valle, B. E. (A)
Van Groos, J. C. (A)
Vega, R. K. (A)
Villa, R. (A)
Vitzelio, R. B. (A)

Wallace, D. C. (VA)
Walley, B. (VA)
Ward, R. A. (M)
Waring, J. A. (A)
Weingarten, R. (A)
Wersen, D. T. (VA)
Wight, R. W. (A)
Wilkins, W. H., Jr. (A)
Wilson, W. A. (A)
Winchell, R. W. (A)
Winkler, J. L. (A)
Wolff, H. G. (M)
Wolman, L. L. (A)
Wood, G. (A)
Wright, P. B. (A)
Zelenay, J. (A)
Zuckerman, J. V. (A)

Los Gatos
Bramley, N. V. (A)
Hodges, E. B. (A)

Lucerne Valley
Knowlton, C. S. (A)

Lynwood
Gerken, G. H. (M)

Malibu
Doersan, P. D. (M)

Manhattan Beach
Birkenhead, W. (A)
Boyer, J. M. (A)
Stewart, D. F. (A)
Suffield, F. G. (M)
Walz, R. F. (SM)
Woodruff, T. E. (A)

March Field
Dillow, J. C. (A)

Marysville
Le Boeuf, M. L.

Maywood
Hansen, H. R. (A)
O'Connor, A. P. (A)

Menlo Park
Buckthal, E. P. (SM)
Floyd, W. B., Jr. (A)
Gordon, J. P. (A)
Helwig, N. C. (A)
Kaar, J. M. (VA)
Kauke, J. R. (A)
Levinthal, E. C. (A)
Ryland, B. G. (M)
Sphar, C. H. (VA)
Stevens, J. S. (A)
Trumbull, A. F. (A)

Millbrae
McCullough, J. A. (A)
Moore, K. A. (M)
Nunner, R. J. (M)
Ogilvie, A. R. (A)

Mill Valley
Behringer, D. S. (M)
Dowling, R. H. (M)
Isberg, R. A. (SM)
Kees, A. A. (M)
Kees, D. F. (A)
Kiesling, W. I. (A)
Mann, F. E. (A)
Smith, H. H. (A)
Vreeland, F. K. (F)

Modesto
Bates, W. H., Jr. (VA)

Montebello
Nichols, F. J. (M)
Thatcher, J. W. (SM)

Monterey
Hoisington, D. B. (M)
Wright, O. N. (A)

Monterey Park
Alker, C. A. (A)
Bacon, W. I. (A)
Gunderson, M. F. (A)

Montrose
Bullock, R. E. (A)
Christilaw, J. S. (A)
Jensen, A. K. (M)

Moraga
Maki, G. J. (M)

Mountain View
Holden, G. R. (A)
Maccono, F. J. (VA)

Muroc
Minalga, G. P. (A)

Napa
Holtmann, E. H. (A)
Nielsen, J. J., Jr.
Streich, R. J. (VA)

National City
Bradley, W. F., Jr., (A)
Cronkhite, C. L. (A)
Fredlund, F. A. (A)
Fuller, J. D. (A)
Heritage, D. P. (A)

North Hollywood
Aboussleman, W. (SM)
Arne, R. E. (A)
Battie, R. G. (A)
Beagles, R. (A)
Boyd, J. C. (A)
Conn, J. W. (M)
Crow, J. R. (A)
Cutler, S. (A)
Erdman, D. C. (A)
French, J. B. (VA)
Gove, E. L. (SM)
Grinnell, A. L. (A)
Gumpertz, D. G. (M)
Haninger, G. A. (A)
Heimlich, I. R. (A)
Honeywell, H. H. (A)
Jensen, K. K. (M)
Kelsey, A. L. (A)
Klug, K. W. (A)
Leonard, N. E. (A)
McCoy, D. R. (A)
McDonald, B. R. (A)
Mobley, M. P., Jr. (A)
Moody, R. C. (SM)
Moore, V. (SM)
Overmire, M. O. (A)
Pangburn, J. P., Jr. (A)
Parker, W. H., Jr. (VA)
Patton, W. L. (A)
Payne, H. B. (A)
Reeves, R. M. (A)
Russell, D. C. (M)
Schmitz, M. W. (A)
Shultz, E. P. (VA)
Sigmon, L. C. (SM)
Spearman, E. L., Jr. (A)
Wilson, J. W. (A)
Wolfe, H. (M)
Woodward, E. O. (A)
Yates, C. F. (A)

Northridge
Barrows, J. H., Jr. (A)

North Sacramento
Kelliher, J. E. (VA)
Kerth, W. J. (A)
Webster, N. D. (VA)

Oakland
Abbott, W. R. (SM)
Andresen, S. (A)
Applegate, C. C. (A)
Black, L. J. (SM)
Cagle, D. S. (A)
Celestre, R. G. (A)
Clark, J. C., Jr. (A)
Downey, C. E. (A)
Drake, H. B. (M)
Exner, W. L. (A)
Forster, A. G. (VA)
Gago, F. J. (A)
Gibson, H. D. (VA)
Gilbert, R. M. (VA)
Glessner, J. M. (M)
Gregg, P. E. (A)
Hall, G. H. (A)
Hansen, H. W., Jr. (A)
Hudson, I. (A)
Kellogg, W. D. (VA)
LaRieu, E. A., Jr. (M)
Lee, L. K. (A)
Lissauer, S. (A)
MacLeod, D. A. (A)
Mendes, J. A. (A)
Mitchell, J. R. (A)
Mole, J. E. (A)
Monson, D. J. (A)
Morrison, K. G. (M)
Pattison, A. (A)
Paul, G. S. (VA)
Peacock, M. L. (A)
Pelonio, A. J. (A)
Penther, C. J. (SM)
Porep, J. L. (A)
Regnier, N. J. (A)
Robertson, A. S. (A)
Robinson, H. S. (A)
Sandfort, M. (VA)
Schwemin, A. J. (A)
Scott, H. J. (SM)
Steidtmann, C. E., Jr. (A)
Thunen, G. W. (A)
Wahlgren, W. W. (SM)
Watson, E. E. (A)
Whiting, G. W. (A)
Whitty, V. E. (A)
Wunce, R. J. (A)

Oceanside
Ulmer, H. W. (A)

Ontario
Pollock, R. D. (M)
Ritter, E. (A)

Oxnard
Anderson, T. J. (A)
Baldwin, L. W. (M)
Chikar, R. E. (A)
Harris, B. E., Jr. (A)
Shaw, G. W. (A)

Pacific Palisades
Barnes, J. L. (SM)
Rutland, D. F. (A)

Pacoima
Owen, R. P. (M)

Palo Alto
Adams, M. B. (A)
Amsler, E. F. (A)
Athey, S. W. (A)
Barclay, W. J. (SM)
Barton, S. N. (VA)
Bauer, B. (VA)
Behr, F. J. (F)
Burkhard, F. J. (A)
Christensen, P. C. (A)
Clifford, D. G. (M)
Cone, D. I. (VA)
Crapuchettes, P. W. (M)
Elliott, H. F. (SM)
Fisher, G. (SM)
Fuller, L. F. (F)
Girdner, W. I. (A)
Hare, M. D. (M)
Helliwell, R. A. (A)
Hewlett, W. R. (SM)
Huggins, R. A. (A)
Jones, C. B. (SM)
Karlskind, D. B. (A)
Kirkwood, R. L. (A)
Liao, T. W. (A)
Morris, A. J. (M)
Muir, J. (A)
Nason, C. H. W. (A)
Packard, M. E. (M)
Patton, H. C., Jr. (A)
Porter, N. E. (M)
Przybyla, L. H. (A)
Roney, E. L. (A)
Schott, F. W. (A)
Schrock, N. B. (A)
Spangenberg, K. (SM)
Steiny, J. O. (A)
Stelter, E. C. (A)
Stubbe, R. R. (A)
Swain, J. R. (A)
Thorarensen, R. (A)
Tinney, F. B. (VA)
Vane, A. B. (A)
Villard, O. G., Jr. (A)
Wagener, W. G. (SM)
Woods, C. W. (A)
Wortman, J. W. (A)
Wright, O. (M)
Zeidler, H. M. (M)

Palos Verdes Estates
Flynn, F. J. (M)

Pasadena
Benioff, H. (VA)
Biehl, A. T. (A)
Blatterman, H. L. (M)
Cannon, G. R. (A)
Conner, R. W. (M)
Crossett, E. C. (VA)
Davis, R. R. (A)
Donoghue, J. J. (M)
Downs, G. W., Jr. (SM)
Dubridge, L. A. (F)
Dwyer, R. J. (VA)
Ellis, D. D., Jr.
Epprecht, G. W. (A)
Gardner, F. H. (SM)
Giannini, G. M. (SM)
Gilbert, J. A. (A)
Goeppinger, A. L. (M)
Gow, K. P. (A)
Granger, W. E. (A)
Grigg, R. W. (A)
Grobecker, A. J. (A)
Grove, H. G. (A)
Harden, P. A. (M)
Hare, G. H. (A)
Hopkins, W. L. (A)
Hopper, F. L. (SM)
Hoskins, E. E. (A)
Howes, E. T. (VA)
Hull, R. W. (VA)
Irwin, E. M. (A)
Kyte, W. O. (M)
Lehan, F. W. (A)
MacKeown, S. S. (F)
Marshall, J. W. (A)
Marshall, R. (A)
Mattson, E. (A)
McDaniel, G. (A)
Merritt, M. L. (A)
Mills, J. (F)
Moore, R. M. (VA)
Moran, R. B., Jr. (A)
Nikirk, T. E. (VA)
Peoples, J. E. (A)
Perkins, G. D. (A)
Pickering, W. H. (A)
Pitzer, R. L. (A)
Schull, G. R. (A)
Schwartz, E. D. (A)
Schwarzmann, W. A. (A)
Sepmeyer, L. W. (SM)
Shultise, Q. M. (M)
Simmons, E., Jr. (VA)
Skeeters, R. N. (A)
Slavin, M. III (A)
Smith, G. F. (A)
Spaulding, C. P. (A) (A)
Washburn, H. W. (VA)
Weaver, C. E. (VA)
Williams, W. E. (M)
Zarem, A. M. (A)
Zeuschner, R. F. (A)

Petaluma
Boutz, F. E. (M)
Ravenscroft, H. A. (A)

Piedmont
Cole, C. H. (VA)
Evans, C. P. (M)
Lasky, P. G. (A)

Pine Valley
Reedy, C. W. (M)

Pittsburg
Fong, A. (M)

Planada
Hames, W. A. (A)

Playa Del Rey
Woods, W. A. (VA)
Yamack, J. E. (A)

Pleasanton
Bairos, C. A. (A)

Point Mugu
Anderton, H. L. (A)
Julian, O. K. (M)

Point Reyes
Reid, I. H. (VA)

Pomona
Bradley, C. F. (M)
Ellis, G. M. (A)

Port Hueneme
Kiger, L. E. (A)
Olson, R. E. (A)

Redding
Carmin, M. H. (A)

Redlands
Herman, J. B. (A)

Redondo Beach
Richards, T. K. (A)

Redwood City
Alden, R. M. (A)
Brewer, M. S. (VA)
Corbell, P. I., Jr. (M)
Eitel, W. W. (A)
Ginzton, E. L. (SM)
Greene, H. A., Jr. (M)
Litton, C. V. (F)
Raffensperger, M. J. (A)
Romander, H. (VA)
Stahl, R. J. (A)

Reseda
Akin, R. H. (A)
Gregory, C. M. (VA)
Penniwell, A. F. (A)

Richmond
Angella, C. P. (A)
Bolljahn, J. T. (A)
Bowman, L. H. (A)
Bundrick, R. J. (A)
Hamren, S. D. (A)
Jacobs, H. N. (M)
Lovell, E. L. (A)
Lowe, C., Jr. (VA)
Pritchett, W. (A)
Schrader, G. F. (A)
Watson, H. M. (M)

Richmond Annex
Hansen, H. M. (A)

Rivera
Shade, R. R. (A)

Riverside
Andres, P. G. (VA)
Field, W. A. (A)
Parker, C. N. (A)

Roscoe
Antell, S. (A)
McGarry, J. (A)
Stello, K. H. (A)
Winchel, H. (VA)

Rosemead
Ferl, R. H. (A)

Rosewood
Strople, E. P. (A)

Sacramento
Barnes, G. W. (VA)
Broderson, L. V. (A)
Durr, E. (A)
Godfrey, X. W. (M)
Hoskins, R. E. (A)
Kemp, E. M. (A)
Koch, W. F. (M)
Mason, C. F. (A)
Miller, J. R. (VA)
Naschke, E. S. (M)
Oates, T. L. (VA)
Saxe, R. K. (VA)
Slater, H. C. (M)
Thompson, H. A. (A)
Young, A. R. (A)

San Anselmo
Nielsen, W. B. (A)
Walsh, C. E. (VA)

San Bernardino
Emm, T. T. (A)
Ewing, G. W. (A)
Featherstone, S. J. (M)
Harrison, A. E. (A)
Johnson, G. M. (A)
Mefford, M. E. (A)
Nelson, G. E. (A)
Pettit, H. L. (A)
Verbance, A. (A)

San Bruno
Coover, C. C. (A)
Hykal, F. A. (A)
Preist, D. H. (M)

San Carlos
Ayer, W. E. (A)
Brown, E. L. (M)
Byrne, P. F. (VA)
Cummings, K. M. (SM)
Erickson, L. G. (A)
Gates, B. (A)
Jaski, T. (A)
Larson, W. C. (A)
McAulay, W. H. (VA)
Paul, R. S. (A)
Procter, E. N. (A)
Soderquist, C. J. (VA)
Vettel, V. P. (A)

San Diego
Abbey, K. (A)
Abel, C. F. (A)
Allen, R. B. (A)
Allen, W. B. (A)
Anderson, J. S. (VA)
Barker, R. D. (A)
Barnes, T. (A)
Bennett, R. (SM)
Berlin, W. H. V. (A)
Beyer, C. M. (M)
Block, K. A. (A)
Bowers, J. L. (A)
Bowers, R. W. (VA)
Brackett, R. T. (A)
Breitwieser, C. J. (VA)
Brokaw, H. R. (M)
Browder, J. W. (M)
Burke, A. T. (A)
Burnett, W. L. (M)
Burns, R. O. (SM)
Burnsweig, J., Jr. (M)
Burton, K. M. (A)
Byrnes, F. X. (M)
Campbell, J. K. (A)
Carlson, B. V. (A)
Cary, R. J., Jr. (A)
Cassidy, B. F. R. (A)
Chadek, T. J. (A)
Chase, H. E. (A)
Christensen, N. T. (A)
Chubb, H. E. (A)
Collins, W. G. (M)
Coombs, G. F. (A)
Cram, C. C. (M)

Crippa, E. R. (M)
Crispell, H. L. (M)
Curl, G. H. (A)
Curtis, G. H. (A)
Dana, J. L. (A)
Day, J. P. (M)
De Voe, H. D. (M)
Dewey, V. A. (A)
Doig, J. H. (VA)
Fischer, E. W., Jr. (A)
Fiske, P. E. (A)
Focke, A. B. (SM)
Frank, M. E. (A)
Fredericks, J. E. (VA)
Freres, C. H. (A)
Frost, A. H. (A)
Gates, H. P., Jr. (M)
Geren, K. E. (A)
Gjelhaug, J. A. (A)
Goddard, W. R., Jr. (M)
Green, D. J. (A)
Green, J. W. (A)
Greenhalgh, F. R. (A)
Griggs, J. R. (A)
Grodzinsky, S. (A)
Hale, C. F. (A)
Handel, N. E. (M)
Harper, R. B. (M)
Hasek, G. (A)
Hasenbeck, H. W. (A)
Hauk, G. L. (A)
Hayes, J. C. (A)
Hedlund, K. W. (A)
Hickman, J. S. (A)
Higgins, L. N. (A)
Holloway, J. (SM)
Hom, F. M. (A)
Hopkins, R. U. (A)
Isenberg, W. W. (A)
Jacobsen, S. J. (A)
Jacoby, J. (A)
Kalbfell, D. C. (SM)
Keeran, R. V. (A)
Kiernan, E. F. (SM)
Kirkpatrick, C. L. (A)
Klaus, G. H. (M)
Krunkkala, G. H. (A)
Knox, R. V. (A)
Lambert, T. M. (A)
Lauritzen, I. L. (A)
La Zelle, L. L. (A)
Lee, H. E. (A)
Leff, B. (M)
Leonard, J. L. (A)
Lewis, G. (A)
Linhart, T., Jr. (A)
Long, J. V. (VA)
McAdam, J. C. (M)
McCharles, J. R. (M)
Mc Daniel, G. A. (A)
McGaughey, J. R. (M)
Miller, R. H., Jr. (A)
Milton, V. A. (A)
Moe, C. R. (SM)
Naylor, J. E. (A)
Olds, O. S. (M)
Ovitt, M. D. (A)
Parker, A. B. (A)
Parker, S. E. (A)
Parker, T. J. (M)
Parkhurst, D. D. (A)
Penners, B. A. (M)
Pitt, C. J. (A)
Poirier, J. H. (A)
Porter, R. W. (A)
Prather, A. W. (M)
Radom, S. R. (A)
Robinson, E. B. (SM)
Rogers, S. (M)
Roshon, S. H., Jr. (M)
Rountree, W. R. (A)
St. Martin, L. (M)
Sauer, W. A. (M)
Schreiber, O. W. (A)
Scott, J. E., Jr. (M)
Sessions, S. H. (VA)
Shellabarger, J. N. (A)
Sherburne, C. J. (M)
Sherwood, R. M. (M)
Short, C. D. (M)
Smith, E. W. (A)
Squibb, W. F. (VA)
Stecker, E. J. (A)
Steelman, R. J. (M)
Steppler, R. V. (A)
Strong, J. A. (M)
Teeter, W. L. (A)
Thatcher, E. W. (SM)
Thomas, T. F. (A)
Tibbals, L. (VA)
Tirrell, C. W. (SM)
Trolese, L. G. (SM)
Ward, B. G. (A)
Webster, J. C. (A)
Welge, V. (A)
Wells, C. H. (A)
Wilson, L. W. (A)
Woolfolk, E. W. (A)

San Anselmo
Kaufman, J. (SM)
Walsh, C. E. (VA)

San Fernando
Girouard, L. O., Jr. (A)
Price, W. H. (A)
Reedy, P. H. (VA)
Sandiford, P. L., Jr. (A)
Warne, V. J. (VA)

San Francisco
Ackey, O. M. (A)
Allen, J. J. (A)
Angerbauer, G. J. (A)
Ashton, J. J. (A)
Bailey, B. L. (A)
Baldwin, R. S. (VA)
Barnes, F. P. (M)
Benson, F. S. (VA)
Bertucci, J. K. H. (M)
Brace, F. R. (M)
Brinton, R. L. (A)
Bristow, F. E. (A)
Brodie, A. H. (M)
Brown, C. H. (A)
Buckingham, E. (M)
Buffum, J. H. (A)
Cadle, L. R. (A)
Christensen, N. P. (A)
Clark, B. L. (M)
Clark, K. G. (A)
Code, J. A. (SM)
Cooke, L. G. (M)
Cronan, W. C. (A)
Danielson, E. G. (VA)
Darlington, E. S. (SM)
Davy, L. H. (A)
Dea, E. F. (A)
Detrick, D. M. (A)
Doyle, W. T. (A)
Dunlap, C. R. (A)
Dunlap, H. B. (M)
Durr, E. (A)
Dutton, I. L. (A)
Faithorn, N. R. (M)
Fincutter, J. P. (A)
Fisher, W. P. (VA)
Freiermuth, V. J. (M)
Gallo, F. J. (A)
Gatkin, T. E. (VA)
Goodwin, C. E. (A)
Green, W. C. (VA)
Haines, R. A. (A)
Halloran, A. H. (SM)
Hamby, T. A. (A)
Hanscom, W. W. (SM)
Harpster, W. A. (A)
Hart, A. H. (VA)
Hatch, R. I. (VA)
Haus, R. (A)
Held, H. E. (VA)
Henshaw, R. A. (A)
Hoeflich, A. F. (A)
Howard, R. D. (A)
Hussey, W. J. (VA)
Jeffers, L. M., Jr. (A)
Johnson, J. B. (A)
Johnson, L. E. (M)
Johnson, R. D. (A)
Johnson, R. M. (A)
Johnston, J. G. (A)
Jones, F. W. (A)
Kafakian, J. (A)
Kahn, R. H. (A)
Kalb, H. N. (A)
Kamphoefner, F. J. (M)
Kastl, R. (A)
Kaufman, A. W. (VA)
Keast, A. K. (A)
Kelley, W. T. (A)
King, H. D. (A)
Klein, M. P. (A)
Kochenderfer, W. E., Jr. (A)
Koepke, W. E. (A)
Kolster, F. A. (F)
Kramer, J. (VA)
La Fevre, L. M. (A)
La Forge, L. H., Jr. (SM)
Lampkin, R. J. (A)
Lamplugh, E. L. (A)
Landells, J. H. (A)
Laster, N. D. (A)
La Vier, E. C. (A)
Lebedeff, G. M. (VA)
Lee, F. B. (A)
Lee, J. A. (A)
Lee, J. J., Jr. (A)
Leicester, J. F. III (A)
Lippincott, D. K. (SM)
Liska, R. W. (M)
Lynch, H. S. (A)
Marshall, E. G. (A)
Maxwell, J. F. (M)
Mayer, A. L. (A)
McArdle, J. J. (A)
McCarty, I. H. (A)
McKay, H. B. (A)
McKinley, W. H. (A)
Macklin, T. G. (A)
Magee, W. L. (A)
Meader, H. W. (A)
Mee, R. W. (A)
Melnicoe, S. A. (M)
Mentcher, I. (A)
Mentz, C. H. (A)
Miller, C. M. (A)
Montalvo, E. (A)
Morrison, A. C. (VA)
Moulin, H. J. (A)
Mueller, E. H. (A)
Mullin, J. T. (M)
Newman, R. J. (A)
Nielsen, K. M. (A)
Nikonenko, P. V. (M)
Nyberg, R. A. (A)
O'Brien, M. P. (VA)
O'Neil, J. A. (A)
Overacker, H. (A)
Pack, H. G. (A)
Patterson, N. J. (A)
Petrak, J. R. (A)
Pichetto, P. B. (A)
Pinkney, J. L. (A)
Ramires, E. F. (A)
Rezos, G. (VA)
Robinson, J. A. (A)
Rose, F. H. (A)
Rosen, J. (A)
Rudesill, E. F. (A)
St. Clair, O. (A)
Sarasohn, H. M. (A)
Scheuch, D. R. (M)
Schulz, P. C. (VA)
Schwarz, C. (A)
Scrievers, B. J. (A)
Scullin, F. B. (A)
Sharman, H. M. (A)
Shoulders, H. D. (A)
Simonson, H. E. (A)
Skinner, C. R. (VA)
Slavin, S. (VA)
Snoddy, R. E. (A)
Stand, T. R. (A)
Stull, R. J. (SM)
Surtees, F. R. (A)
Taylor, L. A. (A)
Theuriet, L. A. (A)
Tognazzini, M. O. (A)
Underwood, E. G. (VA)
Vetromile, J. P. (A)
Von Bergen, C. A. (A)
Walstrom, J. E. (SM)
Warfel, G. H. (M)
Weintraub, W. S. (A)
Whitehead, E. A. (M)
Wholey, C. W. (A)
Williams, P. A. (VA)
Wilton, C. D. (A)
Wolck, B. M. (M)
Wollenberg, H. A. (M)
Wong, H. F. (A)
Wong, W. E. (A)
Wood, R. W. (A)
Woolverton, R. B. (F)
Wright, E. E. (A)
Yuen, H. A. (A)
Zweifel, F. A. (A)

San Gabriel
Alverson, J. G. (M)
Hylkema, C. G. (A)
Kenworth, W. (M)
Pierson, J. (A)
Spargo, P. W. (A)
Young, G. O. (A)

Sanger
Jones, C. H. (A)

San Jose
Clayton, J. B., Jr. (A)
Engwicht, H. (SM)
Hoehn, F. M. (A)
Johnson, R. W. (M)
McCullough, J. S. (A)
Matteson, D. C. (A)
Mauldin, C. W. (A)
McVea, N. C. (A)
Nelson, F. A. (A)
Quement, F. J. (VA)
Stinchfield, J. M. (SM)
Stinson, M. C. (A)
Stuart, G. S. (A)

San Leandro
Albrecht, J. F. (A)
Bidwell, H. H. (A)
Campbell, B. K. (A)
Case, M. D. (VA)
Fink, L. H. (A)
Haag, M. W. (VA)
Holman, W. A. (A)
Johnson, A. A. (A)
Light, R. H. (A)

San Lorenzo
Farrelle, P. S. (M)
Lingle, R. H., Jr. (A)
Rightmyer, J. M. (A)
Ritter, T. H. (A)

San Luis Obispo
Radius, C. (SM)
Travis, E. (A)

San Marino
Mason, C. W. (M)
Poole, J. H., Jr. (VA)
Whistler, J. P. (VA)

San Mateo
Aldrich, J. A. (A)
Anderson, R. C. (A)
Chow, B. (M)
Demere, R. M., Jr. (A)
Eachus, W. J. (A)
Grace, J. R. (M)
Haylock, F. B. (A)
Karl, D. R. (A)
Leo, R. E. (A)
Line, G. D. (M)
Loretz, H. G. (A)
Maize, J. A. (A)
Queen, W. H. (M)
Shermund, R. C. (SM)
Stauffer, R. W. (A)
Towne, A. E. (M)
Wagner, E. S. (A)
West, J. P. (A)

San Pablo
Bright, H. S. (A)

San Pedro
Johnson, V. L. (A)
Kitchin, H. W. (SM)
Muchmore, R. (A)
Rich, A. P. (A)
Smith, J. L. (A)

San Rafael
Reinhart, H. E. (A)
Schaub, L. E. (A)

San Ysidro
Ferreira, F. (A)

Santa Ana
Bogue, H. (A)
Knipe, W. M. (A)
Leipert, C. J. (A)
Levering, C. A. (VA)

Santa Barbara
Combs, E. L. (A)
Czepinsky, W. (A)
Dawley, R. L. (A)
Nicolay, A. A. (M)
Perkins, W. R. (A)
Schnell, L. J. (VA)
Smith, D. S. (A)
Smith, H. W. (A)

Santa Clara
Nettesheim, H. P. (A)
Smaha, N. F. (A)
Warren, W. J. (SM)

Santa Cruz
Jackson, C. L. (A)
Ottem, I. E. (A)

Santa Maria
Brant, R. E. (A)
Hardenbergh, R. H. (VA)
Smith, W. W. (A)

Santa Monica
Alberts, W. A. (A)
Benton, A. (A)
Brown, H. M. (A)
Colfax, L. J. (A)
Dine, F. E. (A)
Everest, F. A. (SM)
Frampton, M. W. (A)
Gaines, B. R. (SM)
Hillyer, F. R. (A)
Hofford, J. F. (A)
Hulteen, C. K. (A)
Hund, A. (F)
Hund, E. (A)
Kerber, S. M. (A)
Lear, W. P. (SM)
Marcum, J. I. (A)
McKinley, H. W. (VA)
Miller, R. J. (A)
Nelson, A. L. (SM)
Partridge, A. J. (VA)
Phelan, J. D. (A)
Smith, J. L. (A)
Symonds, R. J. (A)
Torrible, A. W. (A)
Weller, H. H. (A)

Santa Paula
Schlinger, W. R. (A)
Sharp, J. M. (VA)
Teague, D. S., Jr. (A)

Santa Rosa
Bruner, M. L. (A)
Merrill, G. E. (A)

Sausalito
De Witt, M. H. (A)
MacDonald, W. L. (A)

Sebastopol
Unsworth, R. G. (A)

Selma
Daggett, L. L. (A)
Smith, R. A. (A)

Sherman Oaks
Cooke, W. H. (A)
Green, A. P. (A)
Miller, G. B. (VA)
Shank, R. J. (VA)

Sierra Madre
McFarlane, M. D. (SM)

Sonoma
Orosco, E. M. (A)
Simpson, R. L. (VA)

South Gate
Allen, R. M. (A)
Dreessen, W. B. (A)
Evans, W. C. B. (A)

South Pasadena
Le Grand, C. (A)
Madsen, R. G. (M)
Monfort, R. A. (SM)
Ray, P. J., Jr. (A)
Silhavy, W. H. (A)
Stott, R. F. (A)
Widenmann, J. A. (M)

South San Francisco
Patton, W. R. (VA)
Wells, F. D. (A)

Stanford University
Abraham, W. G. (A)
Blanchard, H. P. (A)
Chapman, S. (M)
Chodorow, M. (SM)
Clark, C. B. (M)
Clelland, F. W., Jr. (A)
Dodd, G. M. (A)
Hansen, W. W. (F)
Hoover, W. G. (A)
Jasberg, J. H. (A)
Kaisel, S. F. (A)
Liaio, T. W. (A)
Manning, L. A. (A)
Neal, R. B. (M)
Pardee, O. O. (A)
Pettit, J. M. (SM)
Proctor, W. G. (A)
Terman, F. E. (F)
Tissot, T. P., Jr. (A)
Trautman, D. L., Jr. (M)
Turner, T. F. (A)

Stockton
Bennett, R. C. (A)
Berger, W. E. (VA)
Greene, M. B. (A)
Thompson, R. L. (A)
Welch, H. E. (A)

Sunland
Hughes, W. R. (A)
Robinett, D. B. (A)

Sunnyvale
Avis, A. J. A. (A)

Temple City
Armagost, H. C. (VA)
Eidson, D. W. (A)
Seiler, R. C. (A)

Tiburon
Richards, R. R. (A)

Toluca Lake
Crabb, R. C. (A)

Topanga
Frantz, W. J. (A)

Torrance
Arvidson, R. F. (A)
Rovenstine, J. A. (A)

Treasure Island
Partis, G. (A)

Tujunga
De Vries, R. T. (A)
Holmes, L. O. (A)

Margolin, S. I. (A)
Moon, R. B. (A)

Tulare
Anderson, S. W. (A)

Upland
Campbell, A. T. (A)

Vallejo
Angst, D. C. (A)
Brown, R. H., Jr. (A)
Dunklee, F. E. (A)
Ekstrand, P. A. (SM)
Hough, J. M. (A)
Marchant, I. G. (M)
O'Bryan, R. L. (A)
Payne, O. C. (A)
Wilcox, G. A. (A)
Wilson, R. S. (A)
Winchester, R. E. (A)

Van Nuys
Brown, L. L. (A)
Chapman, W. R. (A)
Cooper, J. H. (A)
Morgan, R. L. (M)
Radmacher, D. S. (M)
Smith, J. C. (A)
Snyder, W. (A)
Sprague, G. M. (VA)
Tuttle, J. M. (A)
Wasserman, I. E. (A)
Wright, D. (VA)

Venice
Brownson, R. O. (A)
Bryan, F. E. (A)
Conrad, E. G. (A)
Huffine, L. L. (A)
Iams, H. (SM)
Perry, C. S. (A)
Priest, W. F. (A)
Sampson, C. H. (A)

Ventura
Rosenberger, T. A. (A)
Stuart, C. E. (A)

Walnut Creek
Archibald, L. H. (A)
Leslie, J. M., Jr. (A)

Weaverville
Snyder, W. G. (A)

West Los Angeles
Coblentz, O. R. (VA)
Hall, N. I. (SM)
Hilliard, J. K. (SM)
Kloss, R. C. (A)
Lockwood, S. M. (A)
Miller, F. A. (A)
Niblo, P. B. (A)
Piersall, B. P. (M)
Wright, E. C. (M)

Whittier
Conly, E. R. (A)
Jones, R. E. (A)
Starbuck, A. F. (A)

Willowbrook
Zimmerman, W. L. (A)

Woodland
Callaway, W. S. (A)

Yuba City
Potter, R. R. (A)

COLORADO

Alamosa
Taylor, A. H. (A)

Arvada
Spano, A. J. (A)

Boulder
Boehmer, H. W. (M)
Campbell, R. L. (SM)
Colander, R. E. (M)
McCombs, R. K. (M)
Moore, J. E. (A)
Stacey, D. S. (A)

Colorado Springs
Israel, L. J. (A)
Vislisel, R. L. (A)

Denver
Anderson, G. H. (A)
Arndt, A. (A)
Blake, A. F. (A)
Bowen, R. G. (M)
Boyd, J. E., Jr. (A)
Bruyr, C. R. (A)
Burris, W. T., Jr. (A)
Clyne, W. E. (VA)
Cook, L. V. (A)
Deutsch, K. T. (M)
Ekrem, T. C. (A)
Fingado, F. H. (A)
Fisher, B. A. (SM)
Forsman, E. H. (A)
Freudenberg, H. O. (A)
Fuqua, C. (A)
Garretson, H. W. (A)
Harmon, A. L. (A)
Harrison, P. W. (VA)
Harvey, S. A. (A)
James, G. L. (A)
Johnson, H. S. (A)
Kezer, J. (A)
Kullman, F. W. (A)
Lahue, P. M. (M)
Lockyear, W. H. (A)
McCarn, G. B. (A)
McLoud, W. C. (M)
Morrissey, T. G. (M)
Nelson, F. A. (A)
Pierce, O. B. (A)
Pyle, W. D. (VA)
Raper, A. J. (A)
Reno, H. (A)
Sargent, R. E. (A)
Shaw, C. E. (VA)
Shreve, T. S. (A)
Slusser, E. A. (A)
Stein, H. M. (A)
Stewart, M. J. (A)
Sweetland, R. N. (A)
Thomas, G. G. (A)
Thuis, D. L. (A)
Wang, C. S. (A)

Englewood
Thaxton, H. A. (A)

Erie
Petticrew, C. A. (A)

Estes Park
Auble, R. N. (A)

Fort Collins
Bottom, V. E. (M)

Loveland
Kelley, E. K. (M)

Pueblo
Banks, T. G., Jr. (A)
Evans, J. B. (A)
Sprayberry, F. L. (VA)
Venditti, F. P. (A)

Westminster
Mendenhall, F. S. (A)

CONNECTICUT

Bethny
Brown, T. H. (A)

Bridgeport
Arndt, W. R. (M)
Beckman, A. (VA)
Bloom, T. (A)
Carman, E. B. (A)
Coullard, J. B. (A)
Fick, C. G. (SM)
Gethmann, R. B. (A)
Goodwin, A. R. (A)
Gura, A., Jr. (A)
Held, R. W. (A)
Howard, J. (A)
Jones, F. F. (A)
Knox, L. A. (M)
Lapinski, C. S. (A)
Metzger, H. C. (A)
Muschamp, R. A. (A)
Perez, M. (A)
Ragonese, F. L. (A)
Rescoe, J. M. (A)
Rockwell, P. (M)
Sinclair, D. W. (A)
Weller, B. L. (A)
Worcester, J. A., Jr. (M)

Bristol
De Bruyn, H. F. (A)
Vaughan, E. W. (M)

Brookfield
Concelman, C. W. (A)

Byram
Romero, R. F. (A)

Chester
Spencer, R. F. (A)

Collinsville
Anderson, F. A. (A)
Hart, R. D. (A)

Cos Cob
Caldwell, D. H. (F)
Turner, P. M. (A)

Danbury
Deme, J. (A)
Elias, L. G. (A)
Ghirardi, A. A. (SM)
Hancock, J. R. (A)

Darien
Jacobs, L. (A)
Markman, E. L. (A)
McElrath, G. (SM)
Starr, J. O. (M)

Derby
Sperling, J. G. (M)

Devon
Cunning, H. R., Jr. (A)

Durham Center
Schilling, C. R. (A)

East Hampton
Goodman, P. D. (A)

East Hartford
Bayliss, R. E. (A)

East Norwalk
Henrich, W. H. (A)

East Port Chester
Wallace, M. (SM)

Fairfield
Bishop, N. (SM)
Bradford, C. I. (VA)
Brustmann, J. A. (VA)
Conway, J. F., Jr. (M)
Pugsley, D. W. (SM)

Farmington
Ferla, S. J. (A)

Forestville
Ward, J. W. (A)
Williams, J. J. (A)

Glastonbury
Waterman, A. (M)

Granby
Jorgensen, R. E. (A)

Greenwich
Anderson, W. C. (VA)
Long, R. (A)
Stokes, J. H. (A)
Sullivan, H. (A)
Wesley, C. A. (A)

Groton
Blaisdell, K. L. (A)
Galagan, S. (A)
McCann, D. J. (M)
Rudensey, M. B. (M)

Guilford
Stone, R. L. (A)

Hamden
Collins, J. S. (A)
Hewitt, C. D. (A)
Hovey, D. P. (A)
Hubbard, B. R. (VA)
Larock, F. N. (A)
McNamara, F. T. (VA)
Reich, H. J. (SM)
Schorr, M. G. (A)
Smith, F. S. (VA)
Spitzer, C. F. (A)
Sundius, H. W. (SM)

Hartford
Andersen, W. M. A. (A)
Broderick, H. M. (A)
Dickson, A. J. (A)
Doolittle, F. M. (SM)
Harris, D. J. (A)
Hatry, L. (A)
Kelley, R. W. (A)
Lalanne, R. L. (A)
Marchese, J. H. (A)
Muckel, C. D. (A)
Phelps, G. H. (SM)
Pugarelli, S. T. (M)
Waffle, W. M. (M)

Litchfield
Vanderpoel, F. L. (VA)
Way, A. H. (A)

Long Hill
Dresser, W. R. (SM)

Manchester
Blackburn, R. K. (A)
Coe, R. S. (VA)
Dean, C. M. (A)
Goodstine, H. (A)

Mansfield Center
Benson, R. K. (A)

Meriden
Fisher, W. W. (A)
Langfelder, G. (A)
Lavin, H. (A)
Rogge, R. S. (A)

Middletown
Cady, W. G. (F)
Hok, C. G. (SM)
Niemiec, T. W. (A)
Van Dyke, K. S. (F)

Milford
Brockett, P. C. (A)
Coykendall, J. C. (SM)
Lyman, H. T., Jr. (SM)

Mystic
Atwood, W. A., Jr. (A)
Tucker, W. J., Jr. (M)

Naugatuck
Thynell, G. M. (A)

New Britain
Barrett, L. G. (A)
Hedene, T. H. (A)

New Canaan
Breems, A. D. (A)
Castle, D. H. (SM)
Couch, W. M., Jr. (A)
Creedon, H. T. (A)
Goldmark, P. C. (F)
Johnson, J. K. (SM)

New Haven
Adams, N. I., Jr. (SM)
Bergmann, H. M. (A)
Bower, J. L. (SM)
Breit, G. (F)
Briscoe, W. L. (A)
Buck, F. W. (A)
Cannon, J. F. (M)
Chester, B. (M)
Cunningham, W. J. (M)
Curtis, R. C. (M)
Di Elsi, F. J. (A)
Genera, V. A. (A)
Goldenthal, S. (A)
Grew, L. B. (A)
Izenour, G. C. (M)
Jacobson, E. R. (A)
Kelsey, P. C. (A)
Kennedy, P. M., Jr. (A)
Krauss, H. L. (M)
Litvenko, W. (A)
Mauro, A. (A)
May, J. C. (A)
Millard, A. M. (VA)
Ordung, P. F. (A)
Timperley, F. G. (A)
Turner, H. M. (F)
Wright, E. R. (A)

Newington
Bliss, P. (M)
Olsen, C. E. (A)

New London
Berman, R. (A)
Bruntil, I. M. (M)
Colmar, P. V. (SM)
Dunn, C. M. (M)
Friedman, L. (M)
Haefner, S. J. (VA)
Hoag, J. B. (SM)
Jacobs, G. (M)
Kroenert, J. T. (A)
Lewis, R. V. (A)
Merrill, J. (A)
Miccioli, A. R. (A)
Pfautz, C. E. (A)
Pollack, D. (SM)
Turner, R. W. (A)

Niantic
Archibald, C. B. (A)

Noroton Heights
Mason, H. L. (A)

North Branford
Bernard, J. T. (A)

North Haven
Chichester, J. C. (A)
Steward, J. F. (A)

Norwalk
Jackson, E. A. (A)
Lemmo, T. J. (A)
Mason, W. (SM)
Yellin, H. (M)

Norwich
Brennan, J. J. (A)

Norwichtown
Payson, E. C. (A)

Oakdale
Whannel, R. L. (A)

Old Greenwich
Filgate, J. T. (SM)
Lott, A. L. (M)

Old Lyme
Gibbs, N. E. (A)

Old Saybrook
Radom, R. (A)

Plainville
Bullock, J. B. (A)
Stephenson, J. O. (A)

Plantsville
McLeod, K. A. (A)

Poquonnock Bridge
Pearlman, L. S. (M)
Rubin, H. B. (VA)

Putnam
Bosworth, C. D. (A)
Child, D. E. (A)
Roller, E. R. (A)

Quaker Hill
Ide, J. M. (A)
Nash, H. (A)
Powers, A. B. (M)

Ridgefield
Fackler, B. E. (A)
Gerten, N. (A)
Sloughter, G. S. (A)
Sloughter, W. J. (M)

Riverside
Finney, J. A., Jr. (A)
Lemmon, W. S. (SM)
Sontheimer, C. G. (A)
Strother, F. P. (A)

Rockville
Weston, F. B. (VA)

Rowayton
Hines, R. J. (A)

Shelton
Dufourd, A. J. (A)
Zaskalicky, J. J. (M)

Simsbury
Silver, M. (SM)

Southbury
Johnson, R. A. (A)

Southington
Benson, S. E. (A)

South Norwalk
Lamb, J. J. (A)
Rand, P. S. (M)

Southport
Bachman, W. S. (M)
Dewitz, G. H. (A)

Springdale
Cowan, E. J. (VA)
Fluke, J. M. (M)
Marsh, K. W. (M)
Parker, E. J. (A)
Yanagisawa, S. T. (A)

Stamford
Content, E. J. (SM)
Cooke, H. S. (A)
Doolittle, H. D. (M)
Dunn, H. C. (M)
Garrand, L. W. (M)
Geist, H. J. (SM)
Klein, N. E. (VA)
Offner, A. (A)
Rheaume, R. H. (M)
Sachs, S. (A)
Salzman, C. F., Jr. (A)
Schachat, T. (A)
Schonert, K. E. (M)
Shortt, H. L. (M)
Skehan, J. W. (A)
Strup, C. F., Jr. (M)
Ungvary, R. L. (A)
Wetmore, G. C. (A)
Wilder, M. P. (A)

Stepney
Kelly, J. M., Jr. (A)

Stonington
York, E. P. (A)

Storrs
Fischer, F. P. (M)
Robb, E. J. (A)
Timoshenko, G. S. (A)
Williams, L. E. (A)

Stratford
Barrett, R. C. (A)
Craig, G. F. (M)
Foster, R. F. (SM)
Fox, F. J. (M)
Kollar, T. J. (A)
Norkus, B. S. (A)

Unionville
Jones, M. C. (A)

Wallingford
Tuttle, R. W. (M)

Waterbury
Blake, N. H. (A)
Cannizzaro, M. (A)
Hales, F. B. (A)
Procopion, S. J. (A)
Quinn, Q. Q. (M)
Stromwall, C. W. (VA)
Weyand, C. L. (A)
Weyh, E. G. (A)
Winchell, A. M. (VA)

Watertown
Johnson, C. F., Jr. (A)

West Cheshire
Thompson, L. (A)

West Hartford
Beekley, F. C. (M)
Brooks, W. R. (A)
Handy, F. E. (VA)
Hayes, A. E., Jr. (M)
Kunik, I. J. (A)
Marble, F. (SM)
Morrow, L. A. (A)
Runyan, R. A. (A)
Warner, K. B. (F)
Warner, S. E. (SM)
Whitney, D. J. (A)
Williams, H. V. (A)

West Haven
Hanson, N. L. (A)

West Mystic
White, C. E. (M)

Westport
Hanson, O. B. (F)
MacIlvain, K. M. (SM)

Wethersfield
Carini, L. F. B. (A)
Harden, L. R. (A)
House, L. G. (M)
Mitchell, J. A. (A)

Wilton
Aiken, C. B. (SM)
Gray, J. B. (M)
Liston, M. D. (A)

Winsted
Stewart, R. F. (A)

Woodbridge
Martino, I. A. (VA)

DELAWARE

Middletown
Howell, F. N. (A)

Newark
Busche, H. S. (A)
Lutz, B. C. (A)
Young, M. G. (SM)

Odessa
Wagner, F. R. (M)

Selbyville
Stewart, J. L. (A)

Wilmington
Albright, C. M., Jr. (A)
Barnard, G. A. III (A)
Hayman, I. L. (A)
Haynes, H. S. (A)
Hunn, R. J. (A)

Yorklyn
Hanson, V. F. (A)

DISTRICT OF COLUMBIA

Anacostia
Cooke, N. M. (SM)
Hastings, A. E. (A)
McVay, M. S. (A)
Riccobono, S. (VA)

Washington
Abbott, N. A. (SM)
Abraham, G. (M)
Acosta, T. R. (A)
Adams, G. G. (A)
Adams, R. J. (A)
Ahern, C. R. (A)
Albertson, F. W. (M)
Allman, F. L. (VA)
Anderson, L. D. (A)
Andrew, W. M. (M)
Andrews, F. J. (M)
Anspacher, W. B. (M)
Apolenis, C. J. (A)
Asserson, R. (SM)
Aymar, E. (VA)
Bagnall, V. B. (SM)
Balch, J. A. (F)
Barlow, H. B., Jr. (A)
Barnabei, A. (A)
Barnes, R. B. (VA)
Barron, J. H. (SM)
Beck, H. M., Jr. (A)
Beecher, D. W. (A)
Bell, W. S. (M)
Bennett, R. D. (SM)
Berger, L. L. (A)
Berkley, J. B. (SM)
Bernstein, H. E. (SM)
Berry, R. J. (A)
Bewig, K. (A)
Beyer, G. L., Jr. (M)
Birnbaum, G. (A)
Biser, M. H. (SM)
Black, A. O., Jr. (A)
Black, R. R. (VA)
Blake, L. V. (M)
Blasdel, F. G., Jr. (A)
Bloom, A. (A)
Bohnert, J. I. (SM)
Bollum, C. W., Sr. (A)
Bonham, L. L. (A)
Bourland, L. T. (SM)
Boymel, B. (SM)
Brady, F. B. (SM)
Brantley, W. W. (M)
Braum, C. M. (VA)
Bredall, C. H. (M)
Breetz, L. D. (A)
Brennan, J. J. (A)
Brester, W. A. (VA)
Bridges, J. M. (SM)
Brodzinsky, A. (A)
Brogden, J. W. (A)
Brown, B. F. A. (SM)
Brown, T. H. (VA)
Bryant, F. B. (A)
Bull, W. I. (A)
Burbage, G. H. (A)
Burgess, W. B. (SM)
Burke, J. T. (A)
Burleson, M. M. (A)
Butman, C. H. (M)
Butt, H. R. (A)
Butts, J. H. (A)
Byer, D. L. (M)
Cacheris, J. C. (A)
Caldwell, L. G. (SM)
Caldwell, P. A. (A)
Callahan, H. R. (M)
Cannon, R. E., Jr. (M)
Cardwell, L. R. (M)
Carland, E. (A)
Carlson, H. D. (A)
Carroll, T. J. (M)
Carter, H. J. (M)
Castle, C. X. (A)
Cervenka, F. J. (M)
Chambers, T. H. (A)
Chambreau, W. J. (A)
Chase, D. G. (A)
Chromy, B. (VA)
Clark, H. L. (A)
Clark, N. (VA)
Clarke, A. S. (SM)
Cleeton, C. E. (SM)
Coates, R. J. (A)
Codel, M. (A)
Collins, A. B. (VA)
Colton, R. B. (SM)
Colvin, R. (VA)
Condon, E. U. (SM)
Connor, J. A. (A)
Conway, B. B. (A)
Cook, F. W. (VA)
Cope, G. W. (A)
Courtis, R. P. (VA)
Crane, R. R. (A)
Crawford, E. W. (A)
Creveling, C. J. (M)
Cronin, W. J. (M)
Culver, R. H. (VA)
Cumpston, L. W. (M)
Curtice, J. D. (A)
Darne, F. R. (A)
Davie, M. C. (A)
Davies, R. C. (A)
Davis, G. C. (SM)
Davis, M. F. (A)
Davis, R. E. (M)
Davis, T. M. (SM)
Dawley, J. R. (M)
Day, F. H. (A)
Dee, H. E. (A)
Deem, W. D. (A)
Deeter, E. L. (M)
Delort, R. (M)
Dennison, B. H., Jr. (A)
Dewey, D. L. (A)
Diamond, H. (F)
Dillard, V. L. (VA)
Dinger, H. E. (SM)
Disenhaus, N. (A)
Distad, M. F. (SM)
Dixon, J. T. (A)
Doane, J. E. (M)
Dorrell, R. E. (A)
Dorsey, H. G. (F)
Dove, P. S. (M)
Dulin, W. E. (M)
Dumon, L. H. (A)
Dunkelman, L. (A)
Durand, E. (M)
Earhart, C. E. (A)
Easton, R. L. (M)
Elbourn, R. D. (A)
Ellermann, K. E. (A)
Ellis, R. E. (A)
Ellis, R. T., Jr. (A)
English, C. C. (A)
Ennis, A. G. (A)
Fales, D., III (A)
Farber, E. (A)
Faust, W. R. (A)
Fellers, R. G. (M)
Ferris, W. R. (SM)
Finney, W. J. (A)
Flarity, W. H. (A)
Flath, E. H., Jr. (M)
Fleming, J. J. (A)
Flonders, L. M., Jr. (M)
Florman, E. F. (A)
Flowers, H. L. (A)
Francis, G. A. (A)
Franklin, P. J. (A)
Fratianni, S. V. (A)
Frey, S. C. (M)
Fuller, I. W., Jr. (A)
Fye, D. L. (A)
Gall, J. E. (VA)
Garrison, M. M. (SM)
Gauss, H. (A)
Gaylord, R. E. (A)
Gebhard, L. A. (SM)
Geddes, B. B. (A)
Geiger, L. H. (A)
George, S. F. (A)
George, W. D. (VA)
Gibson, G. B. (M)
Gilford, S. (A)
Gillette, K. G. (VA)
Gilpin, L. H. (A)
Globe, S. (A)
Glover, C. P. (A)
Goff, R. H. (A)
Goldstein, M. K. (SM)
Gracely, F. R. (A)
Graham, H. U. (SM)
Graham, W. J. (A)
Graim, R. L., (A)
Gran, R. M. (A)
Grantham, R. E. (M)
Grantham, R. W. (A)
Grebenkemper, C. J. (A)
Green, B. I. (A)
Greer, J. W. (SM)
Griffith, M. H. (VA)
Griffith, R. E. (A)
Grimm, H. H. (A)
Grimm, R. (A)
Gronberg, H. C. (VA)
Groverman, A. B. (M)
Gruber, J. R. (A)
Gunn, R. (SM)
Gunter, D. L. (M)
Gursky, E., Jr. (M)
Guthrie, F. P. (SM)
Guthrie, R. C. (VA)
Haberland, E. R. (M)
Haeff, A. V. (SM)
Hall, E. L. (SM)
Haney, D. W. (M)
Hanley, T. E. (A)
Harmon, W. R. (M)
Harrell, B. F. (M)
Harris, C. M. (A)
Hart, R. N. (A)
Harvey, G. L. (A)
Harwood, E. E., Sr. (A)
Haskins, R. L. (SM)
Hastie, E. G. (A)
Hastings, H. F. (VA)
Haynes, W. A. (A)
Headrick, J. M. (M)
Heaton, V. E. (SM)
Hedrich, A. L. (A)
Heinmiller, D. R. (A)
Henderson, M. C. (SM)
Henderson, W. D. (A)
Hennessy, R. G. (A)
Herider, E. D. (M)
Herman, H. (A)
Herring, R. A., Jr. (A)
Hersh, S. H. (A)
Herson, J. L. (VA)
Hickley, T. J. (SM)
Hodges, M. F. (M)
Hollingsworth, K. M. (A)
Holt, L. J. (VA)
Homburg, E. P. (A)
Hooper, D. M. (A)
Hooper, S. C. (F)
Hopkins, C. (M)
Hornberg, K. O. (A)
Houston, R. H. (A)
Howard, E. G. (A)
Howard, R. V. (SM)
Howe, W. E. W. (A)
Hull, M. I. (M)
Humphreys, T. I. (A)
Hunt, C. M. (SM)
Hunter, D. (A)
Hutchinson, H. P. (SM)
Inglis, A. F. (M)
Jackson, B. (A)
Jansky, C. M., Jr. (F)
Jaques, A. T. (M)
Johler, J. R. (A)
Johnson, A. E. (A)
Johnson, C. A. (A)
Johnston, E. L. (VA)
Jolley, N. A. (A)
Jones, D. M. (M)
Jones, M. S. (A)
Joseph, H. M. (A)
Justman, S. (A)
Kamm, G. N. (M)
Kan, G. (A)
Kantor, W. W. (A)
Kaplan, R. (A)
Katzin, M. (SM)
Kaufman, J. (SM)
Kaufman, M. G. (M)
Kear, F. G. (SM)
Keel, J. J. (A)
Keith, E. N. (A)
Kennedy, R. L. (A)
Kesecker, K. S. (A)
Killgore, H. S. (M)
Klein, W. J. J. (A)
Klotz, J. W. (M)
Knight, J. D., Jr. (SM)
Knowles, R. B. (A)
Kohler, H. W. (VA)
Kopp, R. (A)
Krupen, P. (A)
Kuck, J. H. (A)
Kulberg, L. E. (M)
Kung, S. H. (M)
Kyne, J. T. (M)
Lance, H. W. (M)
Landis, P. E. (A)
Larson, R. E. (A)
Larson, R. W. (A)
Larsson, A. J. (A)
Leavitt, W. E. (A)
Lee, F. N. (A)
Lee, M. H. (A)
Leef, A. E. (A)
Leet, D. N. (A)
Leppert, M. L. (VA)
Lett, R. P. (M)
Libby, R. L. (A)
Lichtman, S. W. (A)
Liebson, S. H. (A)
Light, L. (A)
Link, J. C. (A)
Link, J. H. (VA)
Lipscomb, J. L. (A)
Lohnes, G. M. (SM)
Longman, E. R. (M)
Lorenz, R. J. (A)
Lorenzen, H. O. (VA)
Loucks, P. G. (VA)
Lovejoy, E. W. (SM)
Loveoff, A. (SM)
Lowe, D. M. (A)
Lundquist, C. R. (A)
Lynch, D. W. (M)
MacGregor, W. R. (A)
Mackey, R. J., Jr. (A)
Maddox, C. H. (SM)
Maiden, R. M. (A)
Main, W. F., Jr. (A)
Malter, L. (SM)
Markell, J. H. (M)
Martin, P. J. (A)
Marzetta, L. A. (A)
Mayer, C. H. (M)
Mayo-Wells, W. J. (M)
Mazur, D. G. (A)
McClenon, D. (A)
McComb, C. T. (A)
McDowell, W. E. (A)
McFolin, R. L. (A)
McKey, D. B. (A)
McLaughlin, D. I. (M)
Meadows, L. A. (M)
Medrow, K. R. (M)
Meilander, W. C. (A)
Melton, G. H. (A)
Miller, H. R. (VA)
Miller, J. M. (F)
Miller, J. W. (A)
Mirick, C. B. (SM)
Mizell, M. H. (A)
Moody, W. R. (M)
Moore, A. H. (M)
Morehouse, G. D. (A)
Morse, W. R. (VA)
Moyer, W. A., Jr. (A)
Munzer, E. N. (M)
Murphy, C. H. S. (A)
Murray, A. F. (F)
Nachtigall, A. J. (A)
Neely, G. M. (VA)
Newman, W. P. (A)
Norgorden, O. (A)
Norton, K. A. (F)
Notz, W. A. (A)
Oberly, J. J. (A)
O'Bryan, H. M. (M)
Odom, G. R. (M)
Olken, H. (A)
Olson, A. L. (A)
Ostrow, S. M. (A)
Otto, E. D. (M)
Ould, R. S. (VA)
Owen, E. A. (A)
Owens, R. B. (SM)
Page, E. C. (SM)
Page, R. M. (F)
Paine, H. G. (M)
Paraska, T. F. (A)
Parker, C. V. (SM)
Parker, R. O. (A)
Parsons, J. R. (A)
Paulsen, W. H. (A)
Pawsey, J. L. (A)
Pechousek, T. W. (A)
Pernice, J. R. (SM)
Peterkin, E. W. (A)
Peterson, H. L. (A)
Petes, J. (A)
Pfund, C. E. (A)
Phelps, F. P. (A)
Pierce, J. F. (VA)
Plotkin, G. N. (M)
Plotkin, I. (A)
Plummer, C. B. (M)
Portmann, P. A. (M)
Powell, E. L. (SM)
Powell, R. M. (A)
Powles, F. T. (VA)
Pratt, H. A. (M)
Price, J. F. (A)
Pugh, J. E. (A)
Quinn, R. B. (M)
Randolph, J. P., Jr. (A)
Ranneft, J. E. M. (A)
Ransom, F. A. (M)
Ream, D. F. (A)
Reber, G. (SM)
Redcay, P. W. (M)
Relis, M. J. (M)
Reynard, A. I. (A)
Reynolds, W. W. (VA)
Rice, S. M. (M)
Richards, A. P. (M)
Richardson, W. M. (SM)
Riegger, W. J. (A)
Riley, R. R. (A)
Robbins, L. G. (M)
Robbins, R. E. (A)
Rohrich, C. G., Jr. (A)
Rohrich, G. J. (M)
Rosch, W. J. (M)
Rosenberg, B. L. (A)
Rothschild, J. R. (M)
Russell, D. H. (A)
Ryerson, C. M. (M)
Salin, J. A. (M)
Salzberg, B. (SM)
Sather, R. (A)
Saunders, C. J. (A)
Saunders, D. H. (A)
Saunderson, H. D. (A)
Schafer, H. G. (A)
Schairer, N. J. (A)
Schiffman, J. (A)
Schlesman, C. H. (SM)
Schleter, G. C. (VA)
Schmalbach, S. (M)
Schooley, A. H. (SM)
Schrenk, M. H. (SM)
Schuchard, E. A. (M)
Schulkin, M. (A)
Schwartz, S. (A)
Scott, R. M. (A)
Seaton, J. W. (A)
Sees, J. E. (A)
Segal, P. M. (SM)
Segal, R. J. (M)
Selby, M. C. (SM)
Selgin, P. J. (M)
Senf, H. R. (SM)
Shapiro, G. (A)
Sharp, D. D. (A)
Sheets, C. C. (A)
Sheppard, T. W. (M)
Sherertz, P. C. (A)
Shifflett, P. R. (A)
Shoemaker, J. R. (M)
Shoemaker, L. E. (A)
Shufer, M. (A)
Silberstein, R. (SM)

Siling, P. F (SM)
Simson, A. G. (SM)
Sinback, W. R. (M)
Sledge, O. D. (SM)
Small, B. I. (M)
Smeby, L. C. (SM)
Smeltzer, J. C. (A)
Smith, E. H. (VA)
Smith, E. M. (A)
Smith, F. A. B. (A)
Smith, H. A. (VA)
Smith, S. T. (A)
Smoot, W. S. (A)
Sneiderman, L. R. (A)
Speakman, E. A. (M)
Speed, R. B. (VA)
Spencer, H. L. (M)
Spokas, O. E. (A)
Spriggs, J. O. (A)
Sprinkle, M. C. (A)
Sreb, J. H. (A)
Stahl, B. E. (VA)
Stair, R. (A)
Stec, C. L. (VA)
Stecca, A. J. (A)
Stevenson, J. M. (A)
Stine, P. T. (M)
Stoops, C. W. (A)
Stovall, H. E. (A)
Strother, J. F. (A)
Strothers, H. (A)
Struthers, F. W. (VA)
Stuart, D. M. (SM)
Suski, H. M. (M)
Swain, C. W. (A)
Swanson, E. E. (A)
Swingle, L. M. (A)
Taber, H. E. (SM)
Taishoff, S. J. (A)
Taylor, A. H. (F)
Taylor, A. R. (VA)
Taylor, P. G. (M)
Taylor, R. E. (A)
Taylor, W. F. (A)
Teunisson, J. F. (VA)
Thomas, L. W. (M)
Thrift, S. R. (M)
Timm, R. S. (A)
Ting, P. P. (A)
Tomash, E. (A)
Tosch, R. L. (A)
Trafton, D. C. (SM)
Trbovich, M. (A)
Trexler, J. H. (A)
Tucker, D. P. (SM)
Tucker, J. W. (A)
Tuckerman, L. P. (SM)
Turner, G. S. (SM)
Tuve, M. A. (F)
Tyson, O. A. (A)
Uglow, K. M., Jr. (A)
Upp, C. B. (SM)
Urick, R. J. (M)
Van Atta, L. C. (SM)
Vandegrift, R. B. (SM)
Van Voorst, M. (VA)
Venn, D. A. (A)
Volker, J. H., Jr. (A)
Waldschmitt, J. A. (SM)
Wallace, J. D. (SM)
Walters, A. W. (A)
Ward, W. H. (A)
Ware, R. S. (A)
Waterman, P. (A)
Watkins, W. H. (M)
Weber, J. (M)
Webster, E. M. (F)
Webster, E. (A)
Webster, J. A. (M)
Weedman, W. F. (A)
Weichbrod, J. (M)
Weimer, E. W. (M)
Weiss, M. (M)
Wennersten, D. L. (M)
White, C. F. (M)
White, G. T. (A)
White, R. E. (A)
White, W. A. (A)
Whitelock, L. D. (SM)
Wickenkamp, F. W. (A)
Wickre, P. D. (M)
Wicks, D. S. (M)
Wiewara, E. J. (M)
Wilcox, R. L., Jr. (M)
Wilkins, O. L. (A)
Williams, C. H. (VA)
Williams, D. (A)
Williams, J. R. (M)
Williams, K. B. (A)
Williams, W. S. (A)
Wilmotte, R. M. (F)
Wilson, C. A. (A)
Wilson, D. B. (VA)
Wilson, M. S. (A)
Wilson, R. T. (A)
Winick, A. B. (A)
Winter, N. L. (M)
Winzemer, A. M. (A)
Wise, J. W. (M)
Wolzien, E. C. (M)
Wood, E. P., Jr. (A)
Works, H. A. (A)
Wright, R. B. (VA)
Wu, S. (A)
Wyckoff, H. O. (A)
Yaffee, P. (M)
Yeager, H. R. (SM)
Young, A. H. (A)
Young, E. W. (A)
Young, J. D. (A)
Young, J. S. (A)
Young, L. C. (F)
Zanonini, E. M. (M)
Zee, D. M. (A)
Zeek, R. W. (M)
Zwarka, J. F. (A)

FLORIDA

Banana River
Jones, W. C. (A)

Belle Glade
Clemens, C. S. (M)

Bradenton
Buyaki, P. P. (A)
Lampkin, G. F. (VA)

Cocoa
Dinning, D. M. (A)

Coral Gables
Bassett, F. E., Jr. (A)
Craig, P. H. (SM)
Epperson, W. H. (VA)
Eubanks, J. M. (A)

Daytona Beach
May, L. U., Jr. (A)
Van De Vord, A., Jr. (A)

Fort Lauderdale
Atwood, S. (VA)
Bassett, R. E., Jr. (VA)
Manchesian, J. T. (A)
Williams, E. A. (M)

Fort Myers
Lynch, A. H. (SM)

Fort Walton
Overton, B. H. (A)
Swain, R. R. (VA)

Gainesville
Brogdon, L. C. (A)
Diehl, E. J. (A)
Gano, O. R. (A)
Hoff, R. S. (A)
Johnson, R. C., Jr. (A)
Jones, M. W. (M)
Kennedy, E. D. (VA)
Kessler, W. J. (A)
Martin, E. O. (A)
McPherson, R. R. (A)
Morse, R. F. (A)
Nelson, P. H. (SM)
Pumphrey, F. H. (SM)
Rogers, Y. L. (A)
Sashoff, S. P. (SM)
Schrader, G. F. (A)
Shaffer, C. V. (A)
Shaw, G. S. (A)
Tedder, P. M. (A)
Uzel, F., Jr. (A)
Weil, J. (SM)
Zetrouer, W. F. II (A)

Haines City
Horton, W. H. (A)

Hollywood
Loewenstein, C. N. (A)

Jacksonville
Boyer, L. R. (A)
Cunningham, J. E. (A)
Foulkes, C. E. (M)
Hayford, B. (A)
Joller, C. R. (A)
Lacy, P. D. (A)
Le Grand, H. R. (A)
Oberle, E. J. (A)
Rizk, K. S. (M)
Tyler, R. S. (A)
Wade, N. G. (A)
Winfree, W. C. (A)

Key West
Gardner, R. S. (A)
Graber, R. E. (M)
Hiller, A. J., Jr. (A)
Pace, E. (A)

Lakeland
Lee, W. P. (A)
Webb, R. C. (A)

Largo
Wittstruck, H. H. (A)

Miami
Banks, A. C. (A)
Bliss, A. O. (M)
Borton, F. W. (VA)
Broadhead, S. L., Jr. (A)
Buckler, D. R. (M)
Burton, B. S. (A)
Carterette, A. A., Jr. (A)
Chiles, W. R. (A)
Cook, C. (A)
Davenport, F. S. (A)
Gleason, R. J. (SM)
Hastings, L. E. (M)
Kinney, W. E. (M)
Lambert, J. R. (M)
Lewis, E. W. (VA)
Long, F. B. (SM)
Lucas, F. B. (A)
Mangus, G. (A)
McKee, C. W. (VA)
Meadow, W. L. (M)
Peskoe, I. (A)
Roberts, F. G., Jr. (VA)
Russell, M. A. (A)
Sammon, P. J. (A)
Sanford, H. N. (A)
Scott, M. C., Jr. (A)
Shamblin, H. D. (A)
Shropshire, A. W. (VA)
Smith, W. A. (A)
Stanphill, J. R. (A)
Totah, E. J. (A)
Troutman, E. L. (A)
Van Dijk, I. A. (A)
Videberg, J. (A)

Miami Shores
Weaver, J. J. (A)

Miami Springs
Mehrling, H. W. (A)
Murr, V. E. (VA)

North Miami
Oglesby, R. G. (A)
Seaton, E. H. (A)

Orlando
Adams, I. D. (A)
Mantey, W. F. (A)
Robinson, D. (A)

Pensacola
McKnight, D. R. (A)

Pompano
Bratcher, A. L. (A)

Saint Petersburg
Combs, G. B., Jr. (A)
Hansen, E. (VA)
Link, L. J. (VA)
White, L. E. (A)

Sanford
Browning, R. H. (A)

Tampa
Borelli, J. T. (A)
Mitchell, J. H. (M)
Pearson, R. V. (A)
Shannon, F. J., Sr. (A)
Tison, J. B. (A)

Valpariso
Hlavaty, E. M. (A)
Vermillion, R. K. (A)

Vero Beach
Paddock, D. G. (M)

West Palm Beach
Adams, A. D. (A)
Edleman, V. W. (A)
Himes, B. J., Jr. (A)
Shalloway, A. M. (A)

Winter Haven
Morrison, H. G. (A)

Winter Park
Hawley, D. T. (A)

GEORGIA

Albany
Kinnett, C. M. (A)
Walden, G. R. (A)

Athens
Cagle, H. (A)

Atlanta
Aderhold, H. J. (A)
Akerman, B. (SM)
Alexander, M. S. (M)
Anderson, D. P. (A)
Badgett, A. F. (A)
Bangs, P. C. (VA)
Barr, E. W. (A)
Barton, C. A. (A)
Berry, G. C. (A)
Boland, C. E. (A)
Branch, B. S. (A)
Brown, J. C. (M)
Buchanan, D. B. (M)
Carne, J. B. (A)
Cram, P. B. (A)
Crum, E. R. (A)
Daniel, J. (A)
Daugherty, C. F. (A)
Durkee, C. E. (M)
Edson, W. A. (SM)
Fowler, N. B. (SM)
Galyean, M. W. (A)
Geeslin, J. W. (M)
Gersch, H. A. (A)
Groves, R. M. (A)
Henry, W. E. (M)
Herndon, P. H., Jr. (SM)
Holliday, F. S. (M)
Honnell, M. A. (SM)
Hope, C. R. (M)
Howard, G. M. (A)
Hudson, C. O. (A)
Hudson, J. W. (A)
Johns, C. N. (A)
Johnson, W. D. (M)
Johnston, S. L. (A)
Kelly, W. F. (A)
Lammers, E. S., Jr. (SM)
Martin, R. A. (A)
Mattson, C. L. (A)
Mauldin, H. W., Jr. (A)
Metz, H. I. (SM)
Miles, I. M. (A)
Miller, E. A. (A)
Miller, W. J. (SM)
Mills, H. A. (VA)
Morris, J. S. (M)
Owen, W. D. (A)
Palmisano, R. J. (A)
Powell, D. S. (A)
Rea, L. W. (A)
Reid, H. L. (VA)
Roberts, A. P. (A)
Rosselot, G. A. (A)
Sarbacher, R. I. (SM)
Shortley, W. (M)
Strain, C. E. (A)
Sturman, B. J. (A)
Thornton, H. P. (VA)
Walker, M. C. (M)
White, W. H. (A)
Wilson, T., Jr. (A)

Bookhaven
Minton, R. W. (A)

Cochran
Howard, F. E., Jr. (M)

College Park
Graves, C. C. (A)

Columbus
Gamble, J. A. (M)

Dalton
Andrews, J. S. (A)

Decatur
Adams, M. F., Jr. (A)
Baker, W. K. (A)
Brown, A. L. (A)
Comer, J. M., Jr. (A)
Dewar, H. D. (A)
Holbrook, R. A. (M)
McCorvey, A. (M)
So Relle, J. L. (A)

East Point
Brewer, R. V. (A)
McLean, C. H. (A)

Emory University
Fattig, W. L. (M)

Forrest Park
Adamson, H. D. (A)

Hapeville
Edney, B. (M)

Hartwell
Hayes, W. L. (A)

Macon
Kibler, A. C. (A)
Rankin, G. P. (A)

Marietta
Dunphey, H. B., Jr. (A)
Franco, M. (A)
Jones, A. L. (A)
Luedtke, A. (A)

Norcross
Stone, E. W. (A)

Riverdale
Adams, T. N. (A)

Rome
Starr, R. A. L. (M)

Savannah
Bahlay, A. (A)
Behnken, W. E. (A)
Jelks, E. B. (M)
Kreutter, H. R. (A)
Moats, W. E. (A)
Owen, R. (A)
Smith, S. R. (A)
Thompson, M. E. (A)

IDAHO

Boise
Byrne, M. E. (M)
Hinshaw, R. M. (A)
Hogg, R. A. (A)
Johntz, J. A., Jr. (A)
McGlochlin, B. B. (A)
Oberbillig, D. D. (M)
Smith, S. R. (A)

Farragut
Wright, J. J. (A)

Grangeville
Fortin, R. C. (A)

Idaho Falls
Criddle, C. B. (M)

Lapwai
Shubert, N. (A)

Lewiston
Harland, R., Jr. (A)

Moscow
Bush, B. E., Jr. (A)

Nezperce
Wysong, G. H. (A)

Pingree
Judge, H. (A)

Pocatello
Ritland, H. O. (A)

Soda Springs
Horsley, G. E. (A)

Twin Falls
Cox, F. V. (VA)
Marsh, W. E. (VA)

ILLINOIS

Algonquin
Peter, B. K. (A)

Alton
Crane, W. O. (A)

Antioch
Pechousek, T. W. (A)

Arlington Heights
Gaarder, K. M. R. (M)

Aurora
Kulesha, K. J. (A)
Rebechini, P. G. (A)
Weiler, P. R. (M)

Barrington
Kennedy, R. J. (A)

Bartlett
Leidy, W. J. (VA)

Belleville
Bernhardt, E. C. (A)
Hallen, E. (M)
Johnson, P. B. (M)
Placek, J. H. (M)
Swantz, F. W. (M)
Weiss, L. (M)

Bellwood
Cary, E. A. (A)
Dyke, E. (M)
Grant, J. W. (M)
Marik, E. (A)

Bensenville
Landeck, J. H. (A)

Benton
Ewing, G. E. (A)

Berwyn
Burns, E. E. (SM)
Cihak, W. E. (A)
Dostal, R. J. (A)
Fanta, F. A., Jr. (A)
Fligel, F. J. (A)
Glozer, A., Jr. (A)
Hajek, A. F. (A)
Prentiss, J. G. (SM)
Russ, W. E. (A)

Bingham
Pummill, J. S. (A)

Bloomington
Johnson, M. S. (A)
Moulic, R. J. (A)
Moulic, W. E., Jr. (M)

Blue Island
Damm, G. J. (A)
Suhs, C. J. (A)

Broadview
Durkovic, J. (A)
Gaston, E. E. (M)
Roschke, E. M. (A)

Brookfield
Collins, E. A. (M)
Frihart, H. N. (M)
Ives, G. M. (M)
Kandlik, C. G. (A)

Carbondale
McGee, K. (M)

Champaign
Bloom, L. R. (M)
Burkhead, J. M. (A)
Fett, G. H. (SM)
Fry, W. J. (A)
Jensen, R. S. (A)
McMullen, G. D. (A)
Nibbe, G. H. (A)
Robinson, C. S., Jr. (A)
Samuel, A. L. (F)
Schwarzlose, P. F. (M)
Smith, B., Jr. (A)
Wainscott, J. M. (M)

Chenoa
Cooper, R. B. (A)

Chicago
Abfalter, H. F. (VA)
Adams, K. (M)
Adison, J. C. (A)
Adler, H. J. (A)
Adler, R. (SM)
Ambos, C. (A)
Anderson, C. K. (A)
Andrade, E. A. (M)
Andres, L. J. (SM)
Andresen, E. H. (SM)
Andrew, V. J. (SM)
Andrews, E. F. (VA)
Andry, J. R. (A)
Apger, F. E. (A)
Arao, R. S. (A)
Armstrong, H. W. (M)
Arnold, R. M. (VA)
Baer, R. H. (A)
Balsamello, J. (A)
Ban, G. R. (A)
Bard, R. E. (M)
Barnes, C., Jr. (A)
Bartha, S. J. (A)
Bateman, C. H. (A)
Bates, J. F. (SM)
Bauman, A. M. (A)
Bauman, H. W. (M)
Becker, H. W. (M)
Bekkar, B. N. (A)
Beliss, G. J. (A)
Bellinger, G. B. (A)
Benham, M. J. (A)
Berg, H. O. (A)
Berghoeffer, F. G. (A)
Berky, W. E. (M)
Bernat, L. (A)
Bernin, V. M. (A)
Berry, G. R. (M)
Bierach, K. F., Jr. (A)
Bishner, L. J. (SM)
Black, J. G. (A)
Blahna, C. (SM)
Blinoff, W. Jr. (A)
Bloomenthal, S. (M)
Blum, G. F. (A)
Bobian, G. M. (A)
Bodenstad, E. A. (A)
Borsi, P. N. (A)
Bowen, J. L. (VA)
Bowman, W. B. (A)
Boyajian, J. A. (SM)
Boyll, L. O. (A)
Bradford, C. E. (A)
Bragg, C. E. (A)
Branscome, E. O. (A)
Brar, S. S. (A)
Brauer, H. H. (SM)
Braun, W. C. (VA)
Brazda, J. C., Jr. (A)
Brink, W. H. (A)
Brittin, F. L. (SM)
Brock, W. R. (A)
Brolly, A. H. (SM)
Brown, J. L. (M)
Brown, J. S. (M)
Brown, W. (A)
Brugliera, F. J. (A)
Bruna, R. F. (A)
Burack, H. (A)
Burgess, J. E. (M)
Burley, P. B. (M)
Burns, R. P. (A)
Busch, A. E. (A)
Bushman, S. F. (M)
Cahalan, E. T. (VA)
Cairnes, W. E. (SM)
Callanan, J. A. (SM)
Caloni, J. C. (A)
Camras, M. (A)
Carmody, T. P. (A)
Carr, V. R. (A)
Carroll, C. T. (A)
Carroll, M. J. (SM)
Carson, G. W., Jr. (A)
Carter, J. M. (A)
Castle, C. (A)
Cawthon, E. F. (A)
Cesar, E. M., Sr. (A)
Childs, S. A. (A)
Christensen, A. B. (VA)
Christensen, C. A. (A)
Christensen, R. L. (A)
Christensen, R. T. (A)
Church, J. F. (SM)
Church, R. L. (A)
Clardy, L. (A)
Clark, D. E. (M)
Clark, W. E. (A)
Clark, W. J. (A)
Clayton, W. I. (A)
Clough, K. (VA)
Cohan, O. (A)
Cohen, T. A. (SM)
Colen, N. H. (A)
Conn, R. A. (A)
Conrad, N. L. (A)
Cooper, H. D. (A)
Cooper, N. J. (M)
Cooper, S. E. (A)
Cordulack, M. E. (A)
Cotter, W. F. (SM)
Cox, C. R. (VA)
Cunningham, B. F. (A)
Cunningham, R. D. (A)
Currey, C. H. (A)
Currier, M. G. (M)
Currier, R. A. (A)
Dahlin, E. K. (M)
Danner, R. V. (A)
Davidson, P. (A)
Davis, D. M. (SM)
Davis, J. (SM)
De Busman, D. J. (A)
De Haan, J. (A)
De Janovich, C. R. (A)
Dervishian, E. (A)
Devine, W. F. (VA)
Dezettel, L. M. (A)
Dillenburg, J. F. (A)
Dimmer, R. P. (SM)
Dobbs, C. I. (A)
Donaldson, R. J. (A)
Doremus, J. A. (SM)
D'Orio, A. F. (A)
Dover, J. (A)
Druz, W. S. (SM)
Ducoff, G. (A)
Dunifon, J. W. (A)
Dunlap, G. S. (A)
Dunlap, J. F. (A)
Easterday, R. B. (A)
Eastman, N. G. (A)
Edgar, R. B. (A)
Ellis, A. L. (A)
Eng, W. (A)
English, W. C. (M)
Enslein, K. (A)
Epstein, B. (A)
Erznozik, F., Jr. (A)
Evans, A. R. (A)
Fahringer, W. H. (A)
Fasick, R. C. (A)
Fenske, O. E., Jr. (M)
Ferris, W. T. (VA)
Fetterman, D. M. (VA)
Fink, F. G. (A)
Finlay, G. E. (A)
Firestone, S. Z. (A)
Fitzgibbons, A. C. (A)
Flansberg, S. (A)
Flocken, L. H. (SM)
Forbes, A. C. (SM)
Foster, G. E. (A)
Fox, M. (M)
Frank, N. B. (M)
Frantz, N. (A)
Frieberg, M. (A)
Friend, H. H. (SM)
Frizen, J. E. (A)
Fuchs, C. (A)
Fuller, C. A. (A)
Fuller, F. C. (A)
Furedy, F. (A)
Furst, R. E. (A)
Gamache, L. (M)
Garity, N. O. (A)
Gary, L. A. (A)
Gates, H. A. (SM)
Gaudio, J. C. (A)
Genovese, A. N. (A)
Gerlach, A. A. (A)
Gillespie, F. F. (A)
Gleason, M. J. (A)
Glyptis, N. (A)
Goertz, R. C. (A)
Goldfus, S. M. (A)
Goldsmith, A. (M)
Goldstein, M. (M)
Golub, B. (A)
Good, W. E. (M)
Gordon, B. G. (A)
Graffman, P. S. (A)
Gray, D. (VA)
Gray, R. O. (M)
Greever, N. J. (A)
Gundy, G. L. (A)
Hack, H. R. (A)
Hafker, H. F. (A)
Hager, E. A. (A)
Haggard, W. C., Jr. (A)
Hajduk, E. C. (A)
Hale, N. H. (SM)
Halinton, H. (M)
Halligan, E. P. (M)
Halverson, N. D. (M)
Hanik, P. (VA)
Hansen, H. G. (M)
Hansen, W. H. (VA)
Hansen, W. W. (VA)
Hardy, H. C. (M)
Harhat, T. (A)
Harney, P. J. (M)
Harris, E. F. (A)
Hartmann, C. L. (A)
Hasbach, W. A. (A)
Hassel, K. E. (SM)
Hassler, E. B. (A)
Hauschild, J. P. (VA)
Hayes, A. J. (A)
Hayes, H. D. (SM)
Hedding, F. R. (A)
Heidelmeier, R. F. (A)
Hemman, R. J. E. (A)
Hensen, W. C. (A)
Hercher, F. J. (A)
Hermanny, W. F. (VA)
Herndon, L. C. (SM)
Hess, D. C., Jr. (A)
Hill, C. F. (A)
Hills, E. G. (A)
Hind, J. E., Jr. (A)
Hingson, G. D. (A)
Hitzenhammer, A. D. (A)
Hjermstad, H. (VA)
Hobbs, M. (SM)
Hobson, J. E. (M)
Hoehn, A. J., Jr. (M)
Hoff, D. I. (A)
Hoke, V. L. (VA)
Hollich, F. J. (A)
Holubow, H. (M)
Horwitz, S. J. (A)
Howe, J. S. (A)
Hubbard, L. O. (A)
Huberty, R. M. (A)
Hultquist, J. F. (A)
Hyman, S. J. (A)
Imerson, H. E. (A)
Ireland, G. B. (A)
Ireland, R. P. (M)
Iverson, F. A. (A)
Jackson, J. J. (A)
Jacob, F. N. (VA)
Jacobsen, I. (A)
Jacobson, L. (A)
Jakavicia, F. J. (A)
Jensen, J. O. (VA)
Johnson, G. L., Jr. (A)
Johnson, P. I. (A)
Johnson, R. S. (A)
Johnson, R. Y. (A)
Jorgensen, C. M. (SM)
Jorgensen, N. A. (A)
Junkins, C. E., Jr. (A)
Kabell, J. (A)
Kahn, J. J. (A)
Kalmus, H. P. (SM)
Kaluzna, I. J. (A)
Kamys, J. E. (A)
Kane, J. P. (A)
Karpuk, A. (A)
Kasdorf, G. R. (A)
Kavlak, D. J. (A)
Kearse, G. P. (M)
Keller, W. P. (A)
Kelly, R. L. (A)
Kelsey, E. L. (VA)
Ketchum, D. L. (A)
Kiefer, J. C. (M)
Killian, L. G. (SM)
Kintzel, J. D. (M)
Kiver, M. S. (A)
Klopke, E. A. (A)
Kmiec, B. W. J. (A)
Knox, A. A. (M)
Koenig, H. G. (A)
Kohler, E., Jr. (VA)
Kohn, E. B. (A)
Kohner, M. (A)
Komm, J. (A)
Kopeny, L. J. (A)
Kopp, C. J. (M)
Kowitz, V. M. (A)
Kraitsik, N. I. (A)
Krakora, J. J., Jr. (SM)
Kramer, K. (SM)
Kransz, P. A. (M)
Krempel, F. M. (A)
Kresnicka, J. J. (A)
Krieger, H. C. (A)
Krueger, R. M. (M)
Krus, G. D. (A)
Kubilius, A. A. (A)
Kulp, A. (A)
Kusack, W. P. (A)
Kussman, A. E. (A)
Lambie, H. H. (A)
Lamons, R. P. (A)
Lange, W. W. (A)
Langstaff, R. H. (M)
Lanterman, W. F. (M)
La Rose, A. P. (A)
Lassila, A. A. (A)
Leedy, H. A. (SM)
Leger, R. M. (A)
Leonhardi, J. O. (A)
Leslie, F. E. (M)
Levi, J. S. (M)
Levin, H. H. (A)
Lewis, C. M. (A)
Lewis, R. E. (A)
Lewis, W. A. (SM)
Lichterman, G. (M)
Lindberg, A. F. (A)
Lindgren, J. R. (A)
Littlewood, W. N. (A)
Lockhart, R. W. (A)
Luttgens, H. C. (SM)
Lyon, J. A. M. (A)
Lytle, C. W. (SM)
MacDonald, W. D. (A)
MacLean, N. W. (M)
Magnuski, H. (SM)
Mahler, R. J. (A)
Malaszewski, J. C. (A)
Mansfield, R. (M)
Marks, M. (SM)
Marmont, G. H. (M)
Marshall, C. E. (VA)
Martin, C. F. (VA)
Martin, W. S. (M)
Masek, J. R. (A)
Masters, E. W. (A)
Mattingly, L. J. (A)
Mattson, N. H. (A)
Maximoff, B. S. (A)
May, H. E. (M)
May, M. (A)
McArthur, B. M. (A)
McCarty, J. M. (A)
McDonald, J. A. (A)
McEwan, T. S. (A)
McGee, H. O. (A)
McGlone, J. M. (M)
McKennon, L. W. (A)
McKinley, G. (A)
McLeod, J. W. (A)
McNalis, J. P. (A)
Mead, R. J. (A)
Meehan, E. L. (A)
Merrill, H. M. (VA)
Messinger, H. P. (A)
Meyer, C. H. (A)
Michael, K. R. (A)
Mikos, E. J. (A)
Miller, E. S. (A)
Miller, J. C. (A)
Mills, A. (A)
Mitchell, D. H. (SM)
Mitchell, T. E. (A)
Mitchell, W. T. (A)
Mittleman, E. (SM)
Mocking, F. J. (A)
Moffat, V. J. (A)
Mohaupt, A. G. (A)
Molnar, I. (SM)
Molton, H. R. (A)
Monderer, B. A. (A)
Moon, R. J. (SM)
Moore, W. T. (A)
Morgan, G. M. (M)
Morris, L. P. (VA)
Mueller, E. L. (A)
Mueller, R. W. (A)
Murphy, J. L. (A)
Nadler, M. (A)
Neesley, T. R. (A)
Nelson, R. A. (A)
Newhouse, A. B. (SM)
Nichols, L., Jr. (A)
Niederman, B. (A)
Nienabler, F., Jr. (A)
Nierman, L. G. (A)
Noble, A. E. (SM)
Norris, K. H. (M)
Novak, C. W. (A)
Nuckolls, R. G. (A)
Obenland, D. K. (A)
O'Brien, E. (VA)
Offner, F. (SM)
O'Hare, E. F. (A)
Olson, A. E. (A)
Ostberg, O. S. (A)
Osterlund, S. G. (M)
Ozone, K. (A)
Pacholke, F. (SM)
Pampel, F. L. (SM)
Parkinson, J. A. (A)
Patel, S. N. (A)
Pattee, H. H. (A)
Pearson, B. W. (A)
Pepperberg, L. (M)
Perkins, R. W. (A)
Peter, D. (A)
Peterson, A. H. (A)
Petzing, E. W. (VA)
Pfaff, E. R. (SM)
Phinney, T. W. (A)
Pierson, C. D., Jr. (A)
Pinsky, J. D. (A)
Pirhofer, D. J. J. (A)
Plaisance, S. F. (A)
Plamondon, A. D., Jr. (SM)
Poll, V. M. (A)
Potter, J. D. (A)
Powell, C. S. (A)
Powell, H. G. (A)
Powers, J. S. (A)
Price, R. L. (A)
Probeck, C. (SM)
Pucalik, A. T. (A)
Pueschel, W. R. (A)
Quarfoot, H. B. (VA)
Quayle, V. H. (A)
Race, R. T. (A)
Ralston, R. W. (A)
Ramler, W. J. (A)
Rauf, R. H. (A)
Read, C. T. (A)
Reed, M. B. (A)
Reed, W. O. (VA)
Rehberg, J. C. (A)
Remde, J. (VA)
Rennick, J. L. (VA)
Rensch, H. A. (M)
Reynolds, D. J. (VA)
Reynolds, J. L. (A)
Rice, P. (A)
Richards, H. K. (VA)
Riddel, O. A. (VA)
Rife, M. W. (A)
Ripperger, W. A. (A)
Roach, W. E. (A)
Roberts, E. A. (A)
Rodde, L. W. (A)
Rodriguez, A. E. (VA)
Rogers, R. T. (A)
Rokes, N. W. (A)
Roman, A. D. (A)
Ronning, H. (A)
Ronzheimer, S. P. (M)
Rose, I. W. (A)
Rose, J. K. (VA)
Rosenman, L. (A)
Ross, E. H. (M)
Ross, E. O. (M)
Ross, K. B. (VA)
Rossetti, A. (A)
Rossetti, J. (A)
Rowe, H. C., Jr. (A)
Rowe, T. L. (SM)
Ryburn, P. W. (A)
Rylewicz, C. (A)
Salmon, V. (SM)
Samuelson, R. E. (SM)
Sandberg, H. L. (A)
Sandquist, J. W. (A)
Sands, L. G. (M)
Schlesinger, W. A. (VA)
Schmidt, L. D. (A)
Schneider, S. (A)
Schneider, S. A. (A)
Schnell, F. H. (SM)
Schor, F. W. (SM)
Schreiner, L. W. (A)
Schultz, A. A. (M)
Schultz, C. J. (A)
Schultz, E. H. (SM)
Schultz, K. A. (A)
Schumacher, J. H. (A)
Schwennesen, D. (A)
Scott, E. H. (SM)
Sengel, P. A. (VA)
Shallcross, G. P. (A)
Sholand, S. O. (A)
Shonerock, R. C. (VA)
Shulman, A. (M)
Shure, S. N. (VA)
Siegel, D. T. (M)
Simon, L. (A)
Sinclair, D. C. (A)
Sivin, L. (A)
Slugodzki, L. K. (VA)
Smith, C. W. (A)

Snelling, E. A. (M)
Soria, R. M. (M)
Soukup, J. C. (A)
South, V. W. (A)
Spiegel, L. (M)
Spindler, J. C. (A)
Spinnenweber, J. F. (A)
Sprung, L. H. (A)
Stadler, R. (A)
Stanfield, W. H. (A)
Stanton, J. W. II (A)
Steen, W. J. (M)
Stein, L. F. (A)
Steinberg, E. E. (A)
Stenhouse, J. M. (A)
Stone, A. J. (A)
Stone, C. H. (SM)
Stonevic, V. R. (A)
Storer, B. W. (A)
Streich, F. W. (VA)
Striker, G. O. (SM)
Stroh, W. J. (A)
Sukup, J. P. (A)
Sullivan, J. E. (A)
Swan, L. L. (A)
Swanson, B. E. (M)
Swanson, C. W. (A)
Switzenberg, E. A. F. (M)
Szegho, C. S. (A)
Tanrath, E. G. (A)
Tarantur, S. (A)
Taylor, K. L. (A)
Teeple, A. L. (A)
Thiel, W. H. (M)
Thomas, R. (A)
Thompson, J. E. (A)
Thorsen, W. G. (VA)
Timmings, G. M. (SM)
Tinkham, R. J. (M)
Todd, F. J. (M)
Todd, S. R. (M)
Torode, S. W. (A)
Toy, T. G. (A)
Triman, E. L. (A)
Trittenbach, J. M. (A)
Trowbridge, F. (A)
Tschannen, R. F. (A)
Turner, J., Jr. (VA)
Turner, K. D. (A)
Tuthill, R. M. (A)
Udell, C. D. (A)
Ule, L. A. (A)
Utter, R. A. (A)
Valasek, H. H. (A)
Van Niman, R. T. (M)
Varone, R. A. (M)
Verbanec, W. R. (A)
Vitellaro, F. L. (A)
Volpe, F. (A)
Voss, H. J. (A)
Voznak, E. (A)
Vranicar, E. J. (M)
Walker, F. W. (A)
Walker, H. C. (A)
Wallin, G. (A)
Walter, J. C. (A)
Waterman, H. C. (A)
Watterlohn, R. H. (A)
Wazlo, C. J. (A)
Weber, J. P., Jr. (A).
Weber, L. J. (SM)
Weber, R. I. (VA)
Weeks, G. E. (VA)
Weill, A. E. (A)
Weirich, E. M. (A)
Wells, M. A. (A)
Westerberg, O. D. (A)
Weston, A. H. (A)
White, J. F. (A)
Whitman, M. R. (A)
Whitney, S. D. (A).
Wickline, B. D. (M)
Wickstrom, S. T. (M)
Wilby, E. W. (M)
Williams, L. A. (A)
Williams, P. B. (M)
Wilson, E. L. (A)
Wingert, R. R. (A)
Wirth, V. A. (A)
Wissel, R. A. (A)
Wolff, M. (A)
Wood, H. C. (A)
Woodruff, A. E. (VA)
Woods, A. A. (VA)
Woolsey, R. J. (M)
Wray, W. C. (A)
Yaeger, E. (A)
Yahn, P. F. (A)
Yankauski, B. V. (A)
Yerly, J. (A)
Yoder, D. R. (A)
Yost, K. E. (A)
Young, T. P. (A)
Zaander, C. J. (A)
Zantos, P. J. (A)
Zarky, B. (M)
Zeller, H. R. (A)
Zellmer, E. J. (A)
Zurakov, S. D. (M)

Cicero
Brimmer, W. R. (A)
Dvorak, G. F. (A)
Hutcheon, R. S. (A)
Jucius, S. W. (A)
Oras, R. (A)
Raudonis, C. A. (A)
Wein, F. (A)

Cisne
Kiger, L. L. (A)

Clarendon Hills
Juergens, R. E., Jr. (A)

Clinton
Nearing, F. C. (A)

Collinsville
Riesmeyer, A. H. (A)

Creve Coeur
Bilyue, C. R. (A)

Crystal Lake
Wakefield, S. J. (A)

Cypress
Brown, W. R. (A)

Decatur
Cupp, E. W. (A)
Novota, S. (A)

Deerfield
Canon, H. B. (SM)
Lense, R. J. (A)
Phillips, W. E. (VA)

Des Plaines
Koenig, G. (A)
Marco, F. (SM)
McIlvaine, D. K. (A)
Peterman, R. S. (M)
Remley, H. L. (VA)
Schreyer, T. E. (SM)
Smith, P. A. (A)
Taylor, E. H. (M)

Dewey
Vodak, A. W. (A)

Downers Grove
Courchene, H. B. (SM)
Eddy, W. L. (A)
Harder, R. B. (VA)
Johnson, A. R. (A)

Dundee
Boswau, H. P. (SM)
Radke, W. F. (A)

Dwight
Seabert, F. (A)

East Saint Louis
Becker, H. J. (A)
Reiniger, R. A. (A)
Rogers, C. L. (A)
Wise, H. G. (M)

Elgin
Atkins, C. E. (SM)
Brownell, G. T. (SM)
Irelan, H. F. (A)
Johnson, G. (A)
Kult, M. L. (A)
Lang, G. W. (VA)
Procter, S. A. (A)
Waterfall, F. E. (M)

Elmhurst
Adams, J. J. (SM)
Aldred, A. D. (VA)
Arnold, G. G. (A)
Bond, M. E. (SM)
Carlson, E. V. (A)
Chelgren, A. E. (A)
Haines, D. G. (SM)
Hershey, L. M. (SM)
Jacker, E. W. (SM)
Keogh, R. J. (A)
Laitinen, M. W. (M)
Lindsay, W. R. (M)
Marquardt, J. A. (A)
Noble, D. E. (F)
Russell, W. W. (A)
Thompson, A. C. (M)
Troxel, R. E. (A)
Winemiller, H. R. (M)

Elmwood Park
Christianson, H. J. (M)
Ewald, E. E. (A)
Githens, T. A. (A)
James, F. M. (M)
Simons, R. R. (M)
Woods, M. D. (A)

Evanston
Baltzley, J. V. (A)
Batten, J. C., Jr. (A)
Beam, R. E. (SM)
Bronwell, A. B. (SM)
Buss, R. R. (SM)
Clark, J. T. (A)
Cook, F. D. (M)
Crossley, A. (SM)
Crossley, R. C. (A)
Dahlberg, J. O. (A)
Deal, H. B. (SM)
Downing, J. J. (SM)
Ducker, J. D. (A)
Fancy, R. C. (M)
Foy, C. A. (A)
Franke, F. A. (M)
Freeman, R. L. (SM)
Furst, U. R. (M)
Gassner, F. (A)
Hammond, C. R. (A)
Holland, H. A. (A)
Hughes, W. A. (A)
Huxtable, C. K (SM)
Jenness, R. R. (M)
Kimbark, E. W. (M)
Maltby, A. I. (A)
Mathis, H. F. (M)
Nielsen, H. A. (VA)
Nieter, T. (A)
Orner, R. J. (M)
Osborn, R. L. (A)
Rahmel, H. (SM)
Read, O. (A)
Robinson, G. D. (VA)
Rollefson, K. E. (M)
Saberson, C. J. (A)
Skinrood, D. A. (M)
Smith, A. B. (SM)
Smythe, E. H. (SM)
Somerville, A. (A)
Stevens, H. R. (A)
Valdes, L. B. (A)
Ward, A. J. (A)
Wendt, R. H. (VA)
Wilcoxon, L. (A)
Wing, A. H. (SM)

Evergreen Park
Baldini, E. A. (A)
Kostyal, S. P. (A)

Forest Park
Hintz, H. F. (A)
Lange, E. C. (A)
Witters, R. (A)

Franklin Park
Arand, E. M. (A)
Brewster, F. C. (SM)
McNatt, W. E. (A)
Stroh, W. J. (A)
Ulrich, P. R. (A)

Freeport
O'Connell, G. (VA)

Geneva
Nelson, D. A. (A)
Semm, P. T. (M)

Glencoe
Bennett, A. H. (M)
Brown, J. E. (SM)
Ferry, J., Jr. (A)
Spiegel, G. W. (A)

Glen Ellyn
Beeson, W. E. (A)
Benin, Z. (VA)
Brand, J. J. (M)
Christensen, A. (M)
Dymond, C. (VA)
Kidd, W. E. (A)

Glenview
Barr, R. L. (M)
Bell, J. F. (A)
Dunn, W. L. (SM)
Patterson, W. S. (VA)

Great Lakes
Faulks, H. R. (A)
Schweizer, E. G. (M)

Granite City
Rasche, D. O. (A)

Harvey
Boyers, J. S. (M)
Renne, H. S. (M)

Herrin
Tudor, E. C. (M)

Highland Park
Crouch, C. A. (A)
Kramer, A. W. (VA)
Vinyard, E. L. (A)

Hinsdale
Dahl, E. A. (A)
Doyle, E. J. (VA)
Hanson, A. N. (A)
Mueller, F. L. (A)

Hollywood
Keranen, E. W. (A)
Zenner, R. E. (M)

Itasca
Andres, L. J. (SM)
Florman, L. W. (A)

Jacksonville
Baptist, W. G. (M)
Cassens, G. J. (A)

Joliet
Brown, R. A. (A)
Eckmann, L. G. (A)
Kramer, R. F. (M)
Moore, C. J. (A)
Stratton, D. A. (A)

Kenilworth
Warriner, C. H. (A)

La Grange
Adams, K. (M)
Brasseur, M. (A)
Brodie, G. H. (M)
Crow, H. E. (A)
Gable, L. S. H. (A)
Gable, M. L. (A)
Hagey, W. C. (SM)
Kalb, R. M. (SM)
Knouf, R. J. (SM)
Medill, J. W. (M)
Peterson, D. I. (A)
Petry, C. A. (SM)
Post, E. A. (SM)
Richie, S. M. (VA)

La Grange Park
Hansen, C. A. (M)
Winkler, M. R. (VA)

Lake Bluff
Patelke, R. A. (A)

Lake Forest
Cohn, G. I. (A)

Libertyville
Bottorff, P. A. (VA)
Losey, J. J. (M)

Lincoln
Deal, J. H. (A)
Knochel, R. F. (M)

Lincolnwood
Williams, F. B. (M)

Lockport
Carter, O. M. (VA)
Hanson, R. B. (A)

Lombard
Bennett, G. T. (SM)
Biga, J. J. (A)
Clark, B. H. (A)
Dobson, W. T., III (A)
Fyler, G. W. (SM)
Gregory, J. J. (A)
McCreary, H. J. (SM)
Moore, C. (SM)
Puhalski, D. (A)

Macomb
Cutler, C. R. (A)
Wilcox, S. R. (A)

Marion
Kenyon, F. R. (VA)

Marissa
Church, C. J. (M)

Mascoutah
Lorenz, F. H. (A)

Mattoon
Fortner, O. D. (VA)

Maywood
Forst, P. P., Jr. (A)
Johnson, R. L. (A)
Philips, N. A. (A)
Schlesinger, K. (A)
Tregidga, A. C. (SM)

McHenry
Schroeder, G. W. (A)

Melrose Park
Blood, D. F. (A)
Lahey, J. L. (A)

Michigan City
McCown, W. E. (A)

Midlothian
Harrison, W. L. (A)

Moline
Custer, R. L. (A)

Morrison
Van Osdel, R. L. (VA)

Mount Carroll
Hostetter, J. L. (A)

Mount Prospect
Bierwirth, R. A. (M)

Nameoki
Fletcher, H. E. (A)

Naperville
Rockwood, C. H. (A)

Normal
Malmberg, P. (A)

Northbrook
Cherry, W. L., Jr. (A)
Freeman, W. H. (M)

Oak Lawn
Prokes, P. H. (M)
Wahle, J. J. (A)

Oak Park
Bauer, B. (SM)
Beitz, R. E. (A)
Bennett, A. L. (A)
Beusman, R. M. (VA)
Brittain, G. H. (A)
Bryan, R. H. (VA)
Case, N. P. (SM)
Cotsworth, A., III (A)
De Shong, J. A., Jr. (M)
Desmond, W. F. (A)
D'Orio, P. A. (A)
Duffy, E. J. (M)
Fitch, W. M., Jr. (A)
Gannaway, R. (SM)
Gates, H. W. (A)
Glover, R. P. (SM)
Goebel, E. S. (M)
Graziano, V. (A)
Grunwald, R. (M)
Hoffstetter, G. E. (M)
Homrighous, J. H. (A)
Inman, J. F. (SM)
Ives, R. D. (A)
Jackson, W. C. (SM)
Kenney, M. W. (SM)
Lair, J. R. (VA)
Le Baron, T. (A)
Linell, C. S. (A)
Malone, P. P. (A)
McColl, H. M. (A)
Meinema, H. (A)
Messerschmidt, H. L. (A)
Murphy, O. R. (A)
Nangle, W. O. (A)
Needham, D. P. (A)
Pye, H. C. (VA)
Reardon, E. P. (A)
Reese, K. E. (M)
Schwalm, W. (A)
Stahl, J. E., Jr. (A)
Stemm, R. E. (M)
Stewart, J. A. (VA)
Thompson, R. T. (A)
Tingley, E. M., Jr. (A)
Warriner, R. R. (A)
Wehrle, R. P. (A)
Welker, J. J. (A)
Yoder, R. S. (SM)
Zender, R. G. (SM)

O'Fallon
Chamberlain, P. E. (M)

Palos Heights
Scheldorf, M. W. (SM)
Wood, C. E. (A)

Park Ridge
Aram, N. W. (M)
De Cola, R. (SM)
Erwood, J. (A)
Fredine, E. L. (M)
Friend, B. L. (A)
Hill, O. O. (A)
Mead, L. R. (SM)
Mroz, M. (SM)
Nelson, E. K. (A)
Passow, E. B. (SM)
Plotts, E. L. (SM)
Potter, M. L. (A)
Rankin, J. A. (SM)
Silver, J. F. (VA)
Smith, P. S. (SM)
Whiteman, R. A. (M)
Wolfgram, W. R. (A)

Pecatonia
Van Antwerp, M. C. (VA)

Peoria
Duffy, D. P. (A)
Giles, T. A. (A)
Hall, W. F. (A)

Piety, H. O. (A)
Rohrer, C., Jr. (A)

Plainfield
Hartong, H. H. (A)

Princeton
Searl, M. F. (A)

Prospect Heights
Fitts, R. B. (A)
Thompson, O. I. (M)

Quincy
Arnold, J. B. (A)
Damm, F. (A)
Grimwood, F. O. (A)
Parker, B. E. (M)

River Forest
Bing, V. B. (A)
Clark, R. A., Jr. (M)
Gilman, W. E. (M)
Gustafson, G. E. (F)
Knowles, H. S. (F)
Lewis, R. S. (A)
Maciszewski, A. H. (SM)
McCarthy, F. M. (VA)
Michaels, E. L. (A)
Schnedorf, L. J. (M)

River Grove
Grashoff, A. W. (A)

Riverside
Bachhuber, R. A. (A)
Beatty, J. R. (VA)
Kean, W. F. (A)
Komm, P. M. (VA)
Novy, J. F. (SM)
Wesselman, E. (VA)

Rochelle
Pedersen, I. C. (M)

Rockford
Bullen, C. V. (M)
Carlson, M. R. (A)
Giolitto, A. P. (A)
Hand, C. A. (VA)

Rock Island
Pierce, F. W. (VA)
Sinnett, R. J. (M)

Roseville
Sanderson, J. K. (M)

Saint Charles
Box, R. J. (A)
Hohberger, H. P. (A)
Horst, A. W. (A)
MacDermaid, L. D. (A)
Supitilov, M. C. (A)
Weibler, C. T. (SM)
Winston, R. H. (A)

Skokie
Buzzard, C. R. (A)
Carter, R. W. (A)
Dayton, D. M. (A)
Fruth, H. F. (SM)
Galitz, R. J. (A)
Krahulec, F. (A)
O'Callaghan, J. J. (SM)
Swinyard, W. D. (F)

South Chicago
Kahn, L. (VA)
Weissmantel, C. H. (A)

Springfield
Carnes, E. C. (A)
Dowell, M. R. (A)
Rast, R. E. (A)
Ratchner, A. C. (A)
Sherwood, W. W. (A)

Streator
Gotch, J. X. (A)

Urbana
Albright, W. G. (A)
Bailey, A. D. (A)
Bennett, F. D. (M)
Crothers, M. H. (M)
De Mers, E. F. (A)
Devore, L. T. (SM)
Everitt, W. L. (F)
Gooch, J. D. (A)
Hayden, E. C. (A)
Hu H. C. (A)
Hudson, P. K. (M)
Jordan, E. C. (SM)
Murrell, T. A. (A)
Myers, J. J. (M)
Nash, C. C., Jr. (A)
Nelson, D. E. (A)
Newton, R. K. (A)
Palevsky, H. (A)
Roberts, H. C. (SM)
Rockwood, G. H., Jr. (SM)
Scott, N. R. (SM)
Smith, R. M. (A)
Sen, S. M. (A)
Tykociner, J. T. (SM)
Wainwright, R. M. (SM)
Webb, H. D. (M)
Wilson, B. J. (A)

Villa Park
Anderson, A. G. (A)
Fernandez, D. T. (VA)
Gorbunoff, A. (VA)
Green, C. A. (A)
Kasmar, R. A. (A)
Kimmel, L. D. (A)
Kirby, T. H. (A)
Larsen, M. J. (SM)
Sparf, W. H. (A)

Washington
Ebel, A. J. (SM)
Planck, R. M. (VA)

Watseka
Cox, L. H. (M)

Waukegan
Anderson, C. A. (A)
Peavey, E. A. (M)
Tucker, G. L (M)

Wayne
Dunn, E. C. (A)

West Frankfort
Russel, N. E. (A)

Western Springs
Bracken, J. F. (A)
Dondanville, R. V. (SM)
Duncan, D. C. (VA)
Hungerford, N. C. (A)
Kailus, P. (A)
Levy, G. F. (SM)
Tanke, H. F. (VA)
Whitney, M. E. (SM)

Wheaton
Frank, C. W. (M)
Martin, P. E. (A)
Matthews, G. D. (M)
Squires, E. G. (M)

Wheeling
Naber, J. S. (M)

Wilmette
Cummings, E. G. (A)
Klapperich, A. J. (VA)
Murray, G. E. (A)
Schnell, W. J. (SM)
Ulleweit, O. (A)

Winfield
Stillman, M. C. (M)

Winnetka
Bishop, M. J. (A)
Carter, H. A. (A)
Ferry, M. (SM)
Gorder, L. O. (A)
Hoffman, R. Y., Jr. (A)
Jarvis, K. W. (F)
Prangley, C. F. (A)
Weissenberger, E. G. (A)

Wood Dale
Washburn, C. A. (A)

Zion
Hyde, C. M. (A)
Dunn, L. J. (A)

INDIANA

Advance
Waters, F. J. (A)

Anderson
Holt, D. L. (M)
Phlegar, C. L., Jr. (A)

Angola
Ax, L. S. (M)
Burks, R. C. (A)
Chmielewski, E. A. (A)
Fong, S. G. (A)
Gabrielsen, F. T. (A)
Guichard, R. S. (A)
Johnston, F. S., Jr. (A)
Justus, J. R. (A)
Kosmaczewski, I. (A)
Lewis, R. M. (A)
McLaughlin, R. B. (A)
McLean, R. J. (A)
Most, N. S. (A)
Shaw, C. E. (A)
Staheli, G. D. (A)
Wilson, J. E. (A)

Auburn
Capen, G. A. (A)

Bloomington
Lipps, L. L. (A)
Siddons, G. F. (A)
Tarzian, S. (SM)

Bluffton
Hart, G. I. (A)

Burlington
Hanna, C. L. (A)

Charlestown
Coleman, J. F. (A)

Chesterton
Rifenberg, C. M. (A)

Columbia City
Martin, N. F. (A)

Columbus
Barnard, R. L. (A)
Coatney, A. E. (A)
Harden, R. D. (A)

Crawfordsville
Bechtel, B. (A)

Crown Point
Franz, B. E. (A)

Elkhart
Kent, E. L. (SM)
Krauss, S. L. (A)
Moore, C. C. (M)
Santerre, R. E. (A)
Smith, R. A. (A)
Vaksvik, A. J. (A)

Elnora
Weaver, R. D. (VA)

Evansville
Ansler, B. E. (A)
Barnard, E. H. (A)
Davidson, R. (A)
Everson, E. W. (A)
Gehres, F. A. (A)
Kees, H. (A)
Raburn, L. E. (M)
Robbiano, P. P. (A)
Willis, H. W. (M)

Frankfort
Deacon, N. E. (A)
Dossett, M. H. (A)
Kline, W. W. (A)

Fort Wayne
Aas, E. A. (A)
Beach, H. W. (A)
Boucheron, P. (SM)
Brooks, R. D. (A)
Bruce, R., Jr. (A)
Bush, T. K. (A)
Butler, R. W. (A)
Carson, R. S. (A)
Charles, W. (A)
Cowles, R. J. (A)
Cummings, B. R. (SM)
Dreisbach, R. H. (VA)
Duncan, V. W. (A)
Falk, A. E. (A)
Ferguson, J. C. (SM)
Fisher, H. F. (VA)
Frankart, W. F. (SM)
Freimann, F. (A)
Fromm, K. N. (M)
Fullerton, R. D. (A)
Hallmark, C. E. (SM)
Harris, A. S. (A)
Harris, S. J. (A)
Johnson, L. (A)
Jones, R. B. (A)
Julien, V. O. (A)
Kinsell, W. L. (SM)
Lovegren, P. B. (A)
Lucas, D. T. (A)
Mayle, A. T., Jr. (A)
Millett, L. F. (M)
Nelson, F. H. (A)
Newton, K. V. (A)
Nicholas, E. A. (SM)
Odden, R. B. (A)
Patton, R. B. (A)
Radcliffe, J. C. (A)
Rasley, D. R. (A)
Ratts, B. H. (VA)
Ray, J. (A)
Richards, C. A. (A)
Root, C. S. (M)
Salinger, H. W. G. (SM)
Sanders, R. W. (SM)
Schantz, J. D. (SM)
Schreiner, K. E. (A)
Sheese, O. C. (A)
Shrock, J. B. (A)
Slater, T. L. (A)
Snell, P. A. (VA)
Southern, C. D. (A)
Stagnaro, J. A. (VA)
Thompson, K. J. (M)
Updike, A. G. (A)
Wallin, W. (A)
White, N. N. (A)
Whyman, E. W. (A)
Wong, B. G. (A)
Yoder, L. E. (VA)

Gary
Hurt, R. E. (A)
Jenkins, K. W. (A)
Shirk, K. C. (VA)
Stout, E. R. (A)
Wharton, R. H. (A)

Goshen
Corporon, R. P. (A)
Graf, A. W. (SM)

Hammond
Yingling, R. A. (A)

Huntington
Funderbur, P. E. (A)
Webb, H. E., Jr. (A)

Indianapolis
Adams, H. E. (A)
Alden, E. E. (M)
Anderson, S. R. (A)
Arvin, M. J. (A)
Audritsh, Z. E. (A)
Ault, C. M. (A)
Beier, M. G. (M)
Blakely, K. H. (A)
Carpenter, G. W. (VA)
Carson, H. E. (A)
Cochran, R. G. (A)
De Voe, L. M. (A)
Ellis, R. M. (M)
Fathauer, G. H. (M)
Fenimore, G. E. (A)
French, B. V. K. (SM)
Garcia, J. H. (A)
Garstang, W. W. (SM)
Goetz, L. R. (A)
Gresham, W. S., Jr. (M)
Gross, F. J. (A)
Gutheil, C. M. (A)
Holland, H. S. (A)
Hood, J. T. (SM)
Hotchkiss, C. S. (A)
Hromada, J. C. (SM)
Hurley, H. C. (A)
Jackson, W. E. (SM)
Johnson, P. V. (A)
Keary, H. F. (A)
Luke, C. H. (A)
MacNabb, V. C. (VA)
Mallory, H. R. (A)
McCormick, R. E. (M)
Pulliam, E. H. (M)
Reager, A. M. (VA)
Reynolds, J. H. (M)
Rinehart, B. H. (VA)
Rosser, T. N. (SM)
Sansbury, G. L. (SM)
Schulz, E. A. (A)
Schwarbenbach, E. E. (VA)
Selig, B. L. (A)
Setzer, L. E. (A)
Slater, I. M. (SM)
Taggart, S. E. (M)
Tharp, B. W. (A)
Todd, G. B. (A)
Trout, C. C. (A)
Trout, J. L. (A)
Tulauskas, L. (SM)
Vehling, A. I. (A)
Watts, C. B., Jr. (A)
Wessel, A. W. J. (A)
Wolff, H. R. (A)
Wonnell, T. S. (A)
Zender, J. F. (A)
Zimmerman, F. C. (M)
Zoschke, J. H. (A)

Jeffersonville
Shultz, J. H. (M)

Kokomo
Barkman, R. N. (A)
Carlson, E. C. (A)
Gaiser, M. W. (VA)
Guyton, J. H. (A)
Jenkins, R. L. (A)
Laitnen, L. K. (A)
Manahan, M. J. (A)
Martin, D. W. (A)
Pyle, H. (A)
Sandberg, D. A. (M)
Schwarz, B. A. (SM)
Tynan, A. G. (SM)

Lafayette
Clark, J. R. (M)
Evans, H. R. (M)
Haxby, R. O. (SM)
Oorthuys, H. J. (M)
Reukauf, D. C. (A)
Tanyolac, N. N. (A)
Todd, A. C. (VA)

Lawrenceburg
Achatz, R. V. (VA)

Logansport
Benoit, J. C. (A)
Harrell, D. H. (M)

Marion
Pressley, J. H. (F)

Michigan City
Jacobson, T. E. (A)
Raatz, M. (A)
Ruetz, L. L. A. (A)
Stark, A. J. (A)
Zerber, F. A. (A)

Middletown
Edwards, J. R. (M)

Mishawaka
Dare, E. B. (A)
Metzner, P. E. (A)
Wood, D. F. (M)

Mulberry
Henrichs, E. F. (A)

Muncie
Burton, D. A. (A)

New Albany
Nelson, E. A. (M)

New Haven
Bell, D. L. (A)

New Lisbon
Crosby, R. C. (A)

Notre Dame
Coomes, E. A. (SM)

Ogden Dunes
Horn, L. H. (A)

Oriole
Frakes, S. E. (A)

Oxford
Bloom, G. (VA)

Peru
Condo, H. H. (A)

Plainfield
Jackson, C. H. (A)
Weaver, R. J. (A)
Willey, V. E. (A)

Plymouth
Smith, R. (A)

Rensselaer
Davis, E. J. (VA)

Richmond
Klehfoth, W. G. (A)
Young, K. W. (A)

South Bend
Andrews, J. C. (A)
Burroughs, L. R. (A)
Cole, H. G. (A)
Durbin, H. M. (A)
Ellithorn, H. E. (SM)
Grant, J. H. (A)
Harding, R. L. (A)
Kahn, A. (A)
Kealy, I. D. (A)
Knoblock, E. C. (A)
Mangus, P. R. (VA)
Noyes, J. C. (A)
O'Neil, A. R. (A)
Puca, Q. J. (A)
Ross, A. E. (SM)
Quigley, A. J. (A)
Schulte, G. J. (A)
Soules, W. P. (A)
Stauder, L. F. (A)
Thaler, G. J. (A)
Wiggins, A. M. (A)
Willson, J. E. (M)
Wisman, F. O. (A)

South Milford
Houck, H., Jr. (A)

Terre Haute
Garrigus, W. E. (A)
Moench, H. A. (VA)

Uniondale
Fuller, W. T. (A)

Valparaiso
Alinsky, J. W. (A)
Buehler, E. R. (A)
Bullis, E. E. (A)
Hershman, J. B. (SM)
Johnson, H. L. (A)
Packman, M. E. (VA)
Palmer, R. P. (A)

Vincennes
Blevins, L. G. (A)

Walkerton
Goppert, H. R. (A)

West Lafayette
Cage, J. M. (SM)
Clark, F. J. (A)
Cooper, G. R. (A)
Davis, R. E. (A)
Doremire, F. E. (A)
Elminger, F. G. (A)
Hall, E. G. (A)
Happell, G. E. (A)
Heim, H. J. (VA)
Hesselberth, W. M. (A)
Lower, J. W. (A)
Siskind, R. P. (SM)

Yoder
Lemieux, C. J. (VA)

IOWA

Ames
Babcock, W. E. (A)
Bailey, S. O. (A)
Cassell, W. L. (SM)
Fletcher, K. L. (A)
Fuller, W. D. (M)
Haas, M. H. (A)
Lewis, L. L. (M)
McCoy, D. O. (A)
Richardson, G. A. (M)
Ryder, J. D. (SM)
Von Tersch, L. W. (A)

Bettendorf
Hutchison, R. P. (A)

Boone
Garretson, D. (A)

Cedar Rapids
Abrams, H. T. (A)
Anderson, W. J. (A)
Babcock, W. L. (A)
Babillus, J. (M)
Balhorn, D. W. (A)
Bellew, R. W. (A)
Beetham, R. B. (A)
Biggs, J. A. (M)
Bigler, R. R. (M)
Breed, W. M. (A)
Bruene, W. B. (M)
Bryan, W. C. (A)
Buffington, L. R. (A)
Carson, C. J. (M)
Clark, J. W. (M)
Collins, A. A. (VA)
Conrad, R. S. (SM)
Couillard, L. W. (M)
Cox, R. T. (SM)
Craft, L. M. (M)
Dabinett, J. T. (M)
Doelz, M. L. (M)
England, L. C. (A)
Farley, W. W. III (SM)
Findley, L. K. (SM)
Fink, J. G. (M)
Foster, J. W. (A)
French, L. E. (M)
Gates, R. S. (A)
Gausman, K. W. (A)
Gerks, I. H. (SM)
Giacoletto, J. P. (A)
Graham, D. J. (A)
Green, J. A. (SM)
Hancock, N. W. (A)
Heath, J. W. (A)
Hendriks, H. J. (M)
Henrici, C. R. (A)
Hepperle, C. M. (M)
Higgins, A. K. (A)
Hixenbaugh, G. P. (M)
Holets, L. L. (M)
Hollis, J. L. (SM)
Hollister, R. H. (A)
Holmes, D. W. (A)
Hubbard, M. R. (M)
Hudek, V. R. (M)
Jackson, S. R. (A)
Kent, R. C. (A)
Kohl, W. H. (SM)
Lieske, E. W. (M)
Mack, J. L. (M)
Malone, F. M. (A)
Mark, J. G. (A)
Martz, F. W. (A)
McConnell, T. E. (A)
McKesson, L. J. (VA)
McNees, S. G. (M)
Miedke, R. C. (A)
Mitchell, R. M. (M)
Moseley, F. L., (SM)
Neuber, R. E. (A)
Nordstrom, G. L. (A)
Olson, H. O. (A)
Olson, R. H. (M)
Pappenfus, E. (M)
Perry, V. G. (A)
Phillips, H. B. (A)
Pinney, E. M. (A)
Price, G. W. (A)
Record, W. V. (A)
Regis, R. J. (A)
Rennaker, R. B. (A)
Roberts, D. E. (A)
Salisbury, W. W. (F)
Sasse, P. F. (A)
Seandrett, E. D. (A)
Shanklin, J. P. (M)
Sherwood, J. R. (A)
Smith, J. W. (M)
Spriggs, A. J. (SM)
Stephens, T. C. (A)
Stewart, C. (A)
Stewart, W. F. (SM)
Stratemeyer, C. H. (A)
Streeter, R. A. (A)
Tipping, C. C., Jr. (A)
Vaughn, K. (A)
Vavra, P. H. (A)
Vick, E. K. (A)
Wainwright, L. F. (M)
Ward, C. E. (M)
Watkins, D. A. (A)
Wayland, R. J. (VA)
Webster, G. E. (M)
Wetzel, G. N. (A)
Wirkler, W. H. (M)
Wulfsberg, A. H. (M)
Wulfsberg, P. G. (SM)

Clinton
Bishop, G. E. (A)

Council Bluffs
Hansen, B. P. (M)
Snyder, E. H. (A)

Davenport
Essler, W. O. (A)

Des Moines
Bartlett, F. E. (A)
Eastman, J. W. (A)
Foster, F. H. (A)
Fry, A. L., Jr. (A)
Gusler, F. C. (A)
Harris, D. B. (SM)
Johnson, C. E. (A)
Landis, J. J. (A)
Loyet, P. A. (SM)
Luick, G. W. (A)
Miller, O. M. (A)
Myers, G. E. (A)
Parrott, A. D. (A)
Price, R. E. (A)
Quentin, C. F. (A)
Rissler, H. D. (VA)
Snyder, R. E. (A)
Stauffer, R. E. (VA)
Tennant, O. A. (A)

Dubuque
Emerson, W. R. (A)

Essex
Johnson, W. C. (A)

Fort Des Moines
Myers, K. M. (A)

Guthrie Center
Driggs, L. O. (A)

Hartley
Grotewohl, H. D. (VA)

High
Ehrman, E. F. (A)

Hull
Heusinkveld, M. (A)

Iowa City
Carson, G. S. (M)
Donnelly, A. V. (SM)
Edberg, R. A. (M)
Holland, R. E. (A)
Hunter, T. A. (SM)
Lonsdale, E. M. (A)
Menzer, C. H. (SM)
Ware, L. A. (SM)
Watson, K. M. (A)
Wille, F. A. (M)

Keokuk
Jay, C. R., Jr. (A)

Lake City
David, G. B. (A)

Lake Park
Caywood, T. E. (M)

Mapleton
Coddington, R. H. (A)

Marion
Nester, W. B. (A)
Phillips, H. B. (A)
Smith, M. S. (SM)

Mason City
Born, L. W. (A)

McGregor
Woods, T. D. (VA)

Mitchellville
Melloh, C. I. (A)
Pratt, R. W. (A)

Mt. Vernon
Parker, G. W. (M)

Mount Zion
Campbell, D. B. (A)

Muscatine
Hahn, J. H. (A)

North Liberty
Martin, R. L. (A)

Portsmouth
Ohlinger, P. M. (A)

Shenandoah
Moss, T. L. (VA)

Sioux City
Call, G. R. (A)
Seeley, G. F. (A)
Smith, A. H. (A)

Unionville
Heckart, H. A. (A)

Van Meter
Cummings, H. (M)

Waterloo
Kelly, L. E. (A)
Wilts, J. R. (A)

Wesley
Alne, L. A. (M)

West Branch
Wright, P. M. (A)

KANSAS

Abilene
Warner, R. E. (A)

Atchison
Weedfall, W. W. (A)

Bethel
Crowl, J. M. (A)

Coffeyville
Hawkins, M. (A)

Gardner
Gault, W. E. (A)

Hutchinson
Dunn, J. L. (A)
Elliott, F. J. (A)

Independence
Stowell, N. J. (M)

Kansas City
Ayres, R. C. (SM)
Harding, G. C. (M)
Hilgers, B. H. (A)
Kolen, N. (A)
Monroe, W. J. (A)
Stoker, F. E., Jr. (A)
Woster, G. W. (A)

Larned
Smith, L. L. (A)

Lawrence
Coates, C. L., Jr. (A)
Cottom, M. C. (A)
Hammer, F. E. (A)
Hessler, V. P. (A)
Krenzer, B. A. (A)
Pores, E. B. (A)
Sheppard, H. R. (A)
Wilson, D. G. (A)
Wrench, O. (A)

Lincoln
Walker, L. (A)

Manhattan
Bender, L. B. (SM)
Cotts, A. C. (A)
Hewson, K. D. (A)
Jakowatz, C. V. (A)
Kloeffler, R. G. (SM)
Martin, K. H. (SM)
Riley, O. V. (M)
Wolfe, J. E. (SM)

Mission
Bown, H. T. (A)
Curtis, G. L. (A)
Esler, E. H. (A)
Kimball, C. N., Jr. (SM)
Omer, C. L. (SM)
Stuhrman, A. P. (SM)
Wearth, A. W. (M)

Olathe
Hendry, E. L. (A)

Overland Park
Simmons, K. A. (VA)
Witschner, Y. (M)

Pittsburg
Forman, H. W., Jr. (A)

Sunflower
Wilson, D. R. (A)

Tonganoxie
James, E. (A)

Topeka
Cook, J. W. (VA)
Costelow, J. A. (A)
Hole, W. G. (A)
King, C. W. (A)
Metzdorf, E. K. (A)
Paden, G. O. (M)
Smithmeyer, L. P. (A)

Wichita
Harrell, J. W. (A)
Hickerson, H. H. (A)
Pyle, K. W. (A)
Shire, L. E. (A)

KENTUCKY

Anchorage
Towner, O. W. (SM)
Williams, L. A. (M)

Ashland
Weaver, C. W. (A)

Bellevue
Kulp, J. B. (A)

Buechel
Henson, C. E. (M)

Campbellsville
Crawley, J. B. (A)

Covington
Bondy, H. A. (VA)
Merwin, R. L., Jr. (A)
Tinsley, W. E. (A)
Topmiller, C. H. (VA)

Danville
Russell, J. D. (A)

Finchville
Covert, J. L. (A)

Fort Thomas
Eckerle, E. R. (A)
Kolo, R. E. (SM)

Glasgow
Lockwood, E. C. (M)

Jeffersontown
Herrick, S. F. (A)
Hewitt, L. G. (M)

Lexington
Brazelton, M. W. (A)
Breiding, E. J. (A)
Elliott, W. R. (A)
Helt, S. (M)
Lang, E. T. (A)
Worthington, J. W., Jr. (A)

Louisville
Anderson, L. L. (A)
Bell, R. V. (A)
Cohen, H. (A)
De Munbrun, E., Jr. (A)
Devine, P. F., Jr. (A)
Edwards, G. C. (A)
Gates, S. H. (A)
Hash, E. (A)
Hesse, H. R. (A)
Hickok, W. H. (VA)
Hoffman, G. R. (M)
Hudson, W. E. (M)
Magruder, A. B. (A)
McGregor, R. B. (M)
Mills, R. W. (A)
Morrison, W. J. (A)
Probst, M. C. (M)
Ransdell, E. W. (A)
Smith, A. E. (M)
Smith, H. T. (A)
Sprowls, P. H. (M)
Summerford, D. C. (M)
Sweets, F. M. (M)
Warren, H. R. (M)

Madisonville
Mick, E. (A)

Newport
Schwerman, J. F. (A)

Owensboro
Lattin, W. J. (A)

South Fort Mitchell
Konersman, E. J. (A)

Valley Station
Stanton, R. S. (VA)

LOUISIANA

Algiers
Jones, B. R. (M)

Barksdale
Dupree, J. E. (VA)

Baton Rouge
Wood, G. W. (A)

Hammond
Perkins, G., Jr. (A)

Lafayette
Capuder, A. L. (A)

Lake Charles
Anderson, H. V. (SM)
Branen, S. M. (A)
Menagan, W. W. (A)
Vincent, L. P., Jr. (A)

Maplewood
Stover, E. B., Jr. (A)

New Orleans
Allen, G. (A)
Atkinson, C., Jr. (A)
Becker, H. C. (A)
Bloom, J. D., Jr. (SM)
Cronvich, J. A. (VA)
Daspit, J. I. (A)
Deiler, T. G. (SM)
Du Treil, L. J. N. (SM)
Forsman, M. E. (A)
Gadsden, C. P. (M)
Jones, B. R. (M)
Landry, N. R. (A)
Lehde, P. E. (F)
Lilley, A. J. (A)
Lund, J. E. (A)
Maggiore, A. F. (A)
Mayoral, G. A. (SM)
Mondy, H. C. (M)
Peirce, G. H. (VA)
Price, G. A., Jr. (M)
Rackle, E. E. (A)
Riddle, L. G. (A)
Riley, B. J., Jr. (A)
Spencer, J. C. (A)
Tong, E. (A)
Young, W. E. (A)

Paradis
Chamberlain, R. D. (A)

Quitman
Ashton, W. J. (A)

Ruston
Owen, W. E. (A)

Shreveport
Bresenham, J. J., Jr. (A)
Garrett, E. D. (A)
Keen, C. D. (A)
Maddox, C. H. (VA)
Murray, J. W. (A)
Richard, C. W. (SM)
Simmons, C. A. (M)
Tickell, E. B. (A)

Sulphur
McNamara, J. E. (A)

MAINE

Auburn
Nichols, G. P., Jr. (A)

Augusta
Parker, R. H. (M)

Bailey Island
Curtis, H. W. (M)

Bangor
Chandler, J. (A)
Creamer, W. J. (VA)
Keesey, E. R. (VA)
Libbey, W. M. (A)

Bingham
Lopez, A. F. (A)

Brewer
Hart, G. F. (M)

Calais
Reynolds, J. C. (M)

Cape Elizabeth
Hodgkins, R. W. (VA)
Rodick, G. H. (A)

Falmouth Foreside
Clement, W. G. (A)

Fryeburg
Farnsworth, P. T. (F)

McKinley
Carney, W. L. (A)

Old Town
Edmunds, J. J., Jr. (A)
Parsons, K. L. (A)

Orono
Crabtree, K. G. (A)
Howells, P. W. (M)
Seal, P. M. (A)

Portland
Brewer, L. F. (A)
Collins, L. R. (VA)
La Rochelle, J. A. (A)
Len, R. G. (A)
Linell, A. E. (A)
Loveday, D. W. (A)
Perry, R. L. (A)

South Portland
Heartz, L. C. (M)

Waldoboro
Cooney, J. R. (A)

Wiscasset
Seamon, B. (A)

MARYLAND

Accokeek
Harris, F. H., Jr. (A)

Aberdeen
Brown, M. N. (A)
Egger, R. J. (A)
Richard, V. W. (A)
Spence, H. W. (A)
Zancanata, H. W. (A)

Aberdeen Proving Ground
Harding, E. W. (A)
Hodge, A. H. (VA)
Putnam, R. E. A. (VA)

Annapolis
Alba, C. J. (A)
Albright, E. L. (A)
Bundy, R. C. (A)
Chaney, J. G. (SM)
Cockaday, L. M. (M)
Daley, J. L. (M)
Davis, D. W. (A)
Denning, L. S. (A)
Fairchild, J. A. (M)
Frey, A. R. (SM)
Giet, G. R. (SM)
Goodhue, W. W. (VA)
Gregory, C. A. (M)
Healy, D. W., Jr. (M)
Killian, T. J. (SM)
Kinney, G. F. (VA)
Maling, H. F., Jr. (A)
Menneken, C. E. (A)
Miller, R. L. (M)
Neustadt, H. (A)
Sheingold, A. (A)
Sherr, J. B. (M)

Arbutus
Balthis, D. L. (M)
Bruns, J. E. (A)

Arnold
Harben, L. A. (M)

Baltimore
Allen, J. E. (SM)
Allen, J. W. (A)
Andersen, A. (VA)
Arnold, D. E. (M)
Baker, R. H. (M)
Barbour, C. W., Jr. (A)
Bearden, J. A. (SM)
Bereston, I. A. (A)
Beser, J. (A)
Betterton, A. R. (A)
Bloomer, T. M. (SM)
Blunt, A. F. (A)
Booth, J. D. (VA)
Boyd, B. (VA)
Bradford, H. K. (M)
Bradford, W. O. (A)
Bulkley, A. W. (M)
Carlsten, C. A. (A)
Carter, G. W. (A)
Carter, J. M. (M)
Chapin, E. W. (M)
Cohen, H. A. (M)
Cook, H. A. (M)
Daniel, R. L. (M)
Davis, J. W. (M)
Deitz, J. (M)
De Pew, R. T. (M)
Des Lauriers, E. L. (A)
Dike, S. H. (A)
Dill, E. C. (M)
Dorratcague, P. E. (A)
Duff, J. S. (A)
Durfee, G. H. (A)
Eckels, A. E. (VA)
Edgerly, A. H. (VA)
Edwards, R. B. (M)
Ellert, C. A. (VA)
Eltgroth, G. V. (SM)
Evans, W. C. (F)
Fischer, F. W. (SM)
Fitch, J. A. (M)
Forrest, R. O. (A)
Frame, T. E. (A)
Franz, W. J. (A)
Friree, F. L. (A)
Fuqua, H. G. (A)
Gaither, T. B. (A)
Garrett, W. O. (A)
Girkin, W. B. (A)
Goldbach, A. C. (A)
Goodnow, A. C. (VA)
Goodyear, W. F. (A)
Graf, H., Jr. (VA)
Gregory, L. W. (A)
Hall, J. A. (M)
Hamburger, F., Jr. (SM)
Hammond, J. G. (A)
Hauck, V. D. (SM)
Hayden, L. C., Jr. (A)
Heck, J. R. (A)
Hedeman, W. R., Jr. (A)
Heindl, J. J., Jr. (A)
Hemphill, A. (M)
Henthorn, J. E. (A)
Hershfield, S. (M)
Hierath, D. C. (M)
Hoffman, P. A. (A)
Houck, J. W. (A)
Houston, G. P., III (A)
Hovey, K. J. (A)
Hyder, H. R., III (A)
Jackson, H. L. (M)
Jacob, M. I. (M)
Jeffries, R. J. (A)
Jenkins, J. (M)
Jones, G. C. (M)
Jones, M. L. (A)
Jones, O. J., Jr. (M)
Keith, I. (A)
Kempf, R. A. (VA)
Kershner, R. H. (M)
Kezer, C. F. (M)
Killman, R. T. (A)
Kinn, T. P. (SM)
Kinsman, W. D. (M)
Kirk, J. A. (M)
Kolar, E. F. (SM)
Kreager, P. H. (M)
Krebs, W. N. (VA)
Kroft, H. M. (A)
Krueger, R. E. (M)
Lange, E. H. (VA)
Lau, C. B. (A)
Leap, G. A. (A)
Lindemann, H. B. (A)
Lindsay, G. A. (M)
Little, D. G. (F)
London, C. (SM)
Luscombe, C. F. (M)
Mabry, F. S. (A)
Mager, I. (M)
Marcroft, H. C. (SM)
Marie, C. S. (A)
Martin, A. C. (M)
Martin, D. W. (SM)
Mathieu, R. E. (M)
McAdie, C. H. (A)
McComas, A. D., Jr. (A)
McNally, H. R., Jr. (A)
Miller, A. A. (A)
Miller, J. P. (VA)
Miller, J. M., Jr. (A)
Minneman, M. J. (A)
Morgan, H. K. (SM)
Morgan, R. H. (A)
Motta, N. (A)
Mueller, P. L. (A)
Munson, L. A. (A)
Musk, H. A. (M)
Mutch, J. J. (A)
Nobles, C. E. (SM)
O'Donnell, A. J. (M)
O'Donnell, R. J. (A)
Orem, E. A. (A)
Ossofsky, E. (A)
Pariseau, R. G. (VA)
Parrish, W. F. (A)
Patrick, A. L. (A)
Plummer, W. E. (SM)
Porst, E. G. (A)
Price, D. B. (A)
Pride, E. W. (M)
Pullen, K. A., Jr. (M)
Rambo, S. I. (M)
Ranft, W. O. (A)
Raymond, N. (A)
Rehrig, N. W. (A)
Richer, K. A. (A)
Ridenour, W. S. (A)
Ridgely, N. R., Jr. (A)
Riley, R. N. (A)
Rohner, A. J. (M)
Roush, R. G. (A)
Royce, H. W. (A)
Russ, F. J. (A)
Russell, W. J., Jr. (A)
Sanford, R. W. (A)
Scheffel, A. G. (A)
Scheneman, E. E. (A)
Scheneman, H. W. (A)
Scheiner, S. R. (A)
Schwenk, C. C. (A)
Seidel, H. W. (A)
Sheridan, E. W. (A)
Smeltzer, R. F. (A)
Smith, K. G. (A)
Soroka, B. (A)
Story, H. (A)
Stout, G. P. (SM)
Streb, R. J. (A)
Sudbury, R. J. (A)
Sumpter, P. B. (A)
Symonds, G. W. (M)
Tarkoff, P. B. (M)
Taylor, M. (VA)
Teres, B. W. (A)
Tischler, M. (M)
Torsch, C. E. (SM)
Turk, K., Jr. (A)
Tuttle, L. (VA)
Tylor, H. L. (A)
Ulman, L. J. (A)
Upshaw, V. (A)
Van Vechten, R. K. (A)
Viener, A. H. (A)
Wagner, L. P., Jr. (A)
Waldorf, S. K. (SM)
Walker, H. (SM)
Warner, H. V. (A)
Warner, J. L. (A)
Watson, R. D. (A)
Watts, H. M., Jr. (A)
Weant, C. H. (A)
Webb, W. L. (SM)
Westneat, A. S., Jr. (A)
Whelan, F. G. (A)
White, G. R. (A)
Whitney, A. (VA)
Wilkens, W. B. (SM)
Williams, A. D. (A)
Willis, A. H. (M)
Windsor, R. B. (M)
Woollen, C. E., Jr. (A)
Yarbrough, H. B. (M)

Bel Air
de Bey, L. G. (A)

Berwyn
Brown, J. (M)
Burke, R. J. (SM)
Cook, M. F. (A)
Daniels, T. E. (SM)
De Marr, J. D., (VA)
Hogan, A. W. (A)
Ikelman, G. J. (A)
Wright, J. H. (A)

Bethesda
Arnold, P. N. (SM)
Atwood, N. A. (A)
Bailey, S. L. (F)
Baluta, R. E. (A)
Barrow, J. H. (SM)
Berkner, L. V. (F)
Boese, W. C. (SM)
Bryant, F. B. (A)
Bush G. P. (SM)
Chambers, J. A. (SM)
Culver, R. H. (VA)
Dalke, J. L. (A)
Davis, H. B. O. (A)
Egbert, L. L. (A)
Frazier, H. S. (SM)
Hartz, J. E. (SM)
Hilgedick, W. C. (SM)
Laker, E. F. (A)
Lent, W. C. (SM)
Loucks, I. H. (SM)
McNary, J. C. (SM)
Mickey, L. (VA)
Mills, M. H. (A)
Ring, A. D. (VA)
Russ, J. A. (VA)
Schuyler, W. E., Jr. (M)
See, H. P. (A)
Smith, N. (SM)
Smith, P. L. (M)
Wheeler, L. B. (A)

Branchville
Craig, F. D. (M)

Brandywine
Conner, L. M. (A)
Swartz, R. O. (M)

Capitol Heights
Hengstler, J. J. (A)

Catonsville
Briggs, M. R. (SM)
Burnside, C. J. (SM)
Cole, D. P. (A)
Hoddinott, E. V. (A)
Johnson, J. L. (A)
Kowalesky, R. J. (A)
MacDonald, A. (A)
Meier, W. M. (A)
Miller, C. W. (M)
Miller, C. J. (A)
Nims, A. A., Jr. (A)
Rogers, P. H. (A)
Scalbom, J. D. (M)
Singel, J. B. (A)
Vore, M. P. (A)

Cheverly
Beegle, D. H. (SM)
Krause, K. H. (A)
Ostrander, R. (A)
Waldo, G. V. (VA)

Chevy Chase
Aylor, R. P., Jr. (VA)
Bagg, T. C. (A)
Ball, N. T. (A)
Brady, J. B. (SM)
Chernosky, E. J. (A)
Cottony, H. V. (M)
Dellinger, J. H. (F)
Duncan, R. C. (SM)
Engel, F. H. (SM)
Hall, E. L. (SM)
Jackson, R. (VA)
Jett, E. K. (F)
Karr, P. R. (A)
Kelley, G. W., Jr. (VA)
Lamm, R. A. (SM)
McIntosh, F. H. (M)
Palmer, R. C. (A)
Polydoroff, W. J. (SM)
Stewart, J. D. (SM)
Stewart, R. B. (SM)
Thomas, J. N. (A)
Wells, H. W. (SM)
White, E. L. (SM)
Wright, J. W. (VA)

Churchton
Smith, C. B. (A)

Clinton
Huntley, K. L. (A)
Ramp, R. L. (A)

College Park
Carroll, C. F., Jr. (A)
Corcoran, G. F. (A)
Pear, C. B., Jr. (VA)
Smith, H. B. (M)

Cottage City
Kent, T. A. (A)

Cumberland
Knieriem, R. A. (A)
Stern, H. (M)

Dundalk
Bartlett, B. R. (A)
Hampton, L. R. (A)
Warner, R. C. (A)

Elk Ridge
Morrison, N. J., Jr. (A)

Ellicott City
Tharp, N. B. (M)
Wilson, W. R. (M)

Essex
Hoeppner, C. H. (SM)
Routon, W. S. (A)

Frederick
Miller, C. F. (A)
Price, O. I. (A)
Robertson, J. W. (A)

Fullerton
Van Horn, J. E. (M)

Gaithersburg
Adams, J. T. (A)

Germantown
McLarren, R. (A)

Glen Burnie
Young, A. F. (A)

Greenbelt
Bell, W. E. (A)
Bethard, C. T. (A)
Bradford, W. R. (A)
Fisher, E. M. (A)
Goldstein, G. D. (A)
Meisinger, H. P. (A)
Staub, D. W. (A)
Wetter, A. (A)

Hagerstown
McIntire, G. W. (A)
Peters, J. G. (A)

Halethorpe
Frandsen, L. N. (A)
Kadak, E. (M)

Harundale
McClellan, C. E. (M)

Havre De Grace
Arnold, N. W. (M)
De Land, R. E. (A)

Hyattsville
Borden, T. G. (A)
Chitty, H. W. (A)
Gager, F. M. (SM)
Gipe, R. C. (A)
Greene, F. M. (M)
Hickenlooper, M. M. (A)
Lyon, H. H. (VA)
Nichols, R. D. (A)
Reed, H. (A)
Silbert, D. T. (A)
Turner, W. R. (M)
Wright, D. (A)
Wyman, R. C. (A)

Kensington
Alldredge, L. R. (M)
Bell, W. S. (M)
Davis, W. L. (A)
Drumm, J. C. (A)
Palik, F. (VA)
Parker, M. J. (M)
Poast, L. M. (VA)
Spinks, A. W. (A)

Landover
Corkill, J. F. (M)
D'Acre, F. G. (A)

Laurel
Craig, A. G. (VA)
Mobley, M. C., Jr. (A)
O'Connor, G. S. (A)
Roberts, W. K. (M)
Shinn, E. N. (A)

Linthicum Heights
Foley, J. F. (A)
Foy, R. H. (A)
Lee, R. (SM)

Lutherville
Butler, H. J. (A)
Davis, R. J. (SM)
Gambrill, R. D. (A)

Mount Rainier
Kulikowski, E. F. (SM)
Leslie, C. B. (A)
Ritz, W. A. (A)

North Beach
Gallagher, V. C. (A)
Grosvenor, A. C. (M)
Hanscome, T. D. (A)
Pearson, C. A. (M)
Pike, W. N. (A)
Rabb, J. W. (M)
Skerd, H. M. (A)
Whiting, W. K. (A)

North Kensington
Schuster, W. A. (A)

North Linthicum
James, C. L. (A)
Mack, M. C. (M)

Owings Mills
Lebacqz, J. F. (M)
Omberg, A. C. (SM)

Parkton
Norton, F. R. (SM)

Parkville
Bainbridge, A. S. (M)

Pasadena
Fox, R. C. (A)

Patuxent River
Pierson, J. E. (A)
Salmond, D. S. (A)
Toth, W. S. (A)

Phoenix
Abel, A. E. (SM)

Pikesville
Harmon, R. N. (SM)
McConnel, W. G. (SM)
McDade, J. G. (A)

Relisterstown
Duncan, R. S. (A)

Riderwood
Maze, R. O. (A)

Riva
Mann, D. O. (A)

Riverdale
Child, D. K. (A)
Kelley, J. R. (A)
MacQuivey, D. R. (M)
Whitehurst, L. M. (A)
Withrow, W. E. (A)

Riverdale Heights
Bobroff, D. L. (M)

Rockville
Julian, C. N. (A)
Lapham, E. G. (SM)
Roddy, V. S. (VA)

Rogers Heights
Archibald, R. M. (M)

Round Bay
Koether, G. H., Jr. (A)

Ruxton
Hilliard, W. P. (VA)
Moore, H. N. (A)

Severn
Evans, J. W. (A)

Severna Park
Karlson, A. T. (A)

Sherwood Forest
Bauer, W. M. (M)

Silver Spring
Abramovich, M. N. (A)
Affanasiev, K. J. (M)
Albert, N. (A)
Altomare, R. E. (A)
Aristei, J. (A)
Backus, C. D. (SM)
Bedford, P. L. (A)
Beer, A. C (A)
Bennett, R. D. (SM)
Bohn, A. L. (A)
Bond, E. G. (M)
Brown, C. W. (SM)
Brown, E. B. (A)
Brown, J. H. (A)
Brunetti, C. (SM)
Buckingham, S. A. (A)
Bush, G. B. (A)
Carnine, R. L. (A)
Cook, W. F. (M)
Cortright, R. D. (A)
Davies, G. L. (SM)
Freeman, J. J. (A)
Fund, S. R. (VA)
Gilbert, J. N. (A)
Gordon, D. I. (A)
Gordon, H. L. (M)
Habecker, T. B. (A)
Hardy, A. O. (A)
Heatwole, E. P. (A)
Hopkins, J. J. (M)
Housley, D. G. (A)
Hurlburt, E. H. (A)
Huntoon, R. D. (SM)
Jenkins, J. F., Jr. (A)
Johnston, T. F. (M)
Keck, A. (M)
Kirkland, G. L. (A)
Kima, W. M. (A)
Klink, G., Jr. (A)
Knowles, W. S. (A)
Kreis, A. L. (VA)
Looney, H. C. (VA)
Lorentz, E. F. (A)
McDonald, L. W. (A)
McKeel, P. D. (VA)
Melton, B. S. (SM)
Merchant, W. J. (SM)
Michalowicz, J. C. (M)
Miles, K. G. (M)
Morison, R. (A)
Nagy, A. W. (SM)
Ober, H. E. (A)
Page, C. H. (A)
Preisman, A. (SM)
Quaintance, L. C. (VA)
Redmond, J. J. (M)
Reed, O. W. B., Jr. (M)
Rice, L. W. (VA)
Robertson, A. L. (A)
Robertson, T. M. (A)
Ross, R. R. (A)
Scheets, D. F. (A)
Schenk, P. J. (A)
Schroader, I. H. (A)
Schuttig, L. A. (SM)
Sharpless, W. R. (VA)
Smith, W. L. (A)
Snyder, S. (A)
Sterling, G. E. (SM)
Strader, F. (A)
Sunde, H. E. (A)
Tellman, H. A. (SM)
Terrell, R. L. (VA)
Walters, L. R. (A)
Wentzel, A. B. (M)
White, N. (SM)

Takoma Park
Adair, G. P. (F)
Barbier, L. I. (M)
Bevitt, W. D. (VA)
Clark, G. L. (A)
Floegel, M. E. (A)
Lark, E. J. (M)
Lippitt, K. H. (M)
Miller, B. J. (A)
Moore, W. J. (A)
Ostaff, W. (M)
Page, G. W. (A)
Reed, H. Z. (A)
Ryan, C. E. (M)
Shepperd, I. J. (M)

Timonium
Bryson, R. W. (A)

Towson
Alexander, W. G. (A)
Bath, C. C. (A)
Cornet, E. (M)
Cosby, J. R. (M)
Frazier, R. K. (A)
Frazier, R. V. (A)
Goldberg, H. (SM)
Gordon, J. F. (M)
Graffis, L. F. (A)
Hale, W. B. (A)
Hammond, J. W. (SM)
Jones, W. G. (A)
King, E. J. (A)
Kitty, F. J. (M)
Malta, S. V. (A)
Nunn, E. C. (A)
Oosterling, H. J. (M)
Sims, W. H., Jr. (VA)
Taylor, J. H. (SM)
Vennes, H. J. (SM)

University Park
Raybuck, C. B. (A)

West Hyattsville
Brunner, L. E. (A)

MASSACHUSETTS

Agawan
Lloyd, J. S. (A)

Allerton
Allen, M. (A)

Allston
Chapman, R. C. (A)
Chute, R. M. (A)
Harvey, R. B. (A)
Kingman, R. W. (A)
McClelland, A. B. (A)
Taeschner, L. (A)

Amherst
Langford, J. W., Jr. (A)
Van Meter, D. (A)

Andover
Pray, E. B. (M)
Zink, A. J., Jr. (M)

Arlington
Byers, W. F. (M)
Campbell, R. E. (VA)
Cohen, M. S. (A)
Collins, J. S. (A)
Cowie, R. J. (VA)
Dallin, E. B. (SM)
Drake, W. W., Jr. (A)
Faulkner, W. H., Jr. (A)
Grant, E. F. (A)
Gross, E. E., Jr. (SM)
Hanson, G. (A)
Howell, A. H. (SM)
Kimball, R. E. (A)
King, J. G. (A)
Krulee, R. L. (A)
Meyer, R. V. (M)
Nelson, J. R. (SM)
Pierce, J. A. (F)
Reed, J. C. (A)
Smith, B. H. (A)
Smith, J. E. (SM)
Spencer, R. C. (M)
Swarthout, W. M. (A)
Tenenbaum, F. (A)
Ware, L. R. (A)

Arlington Heights
Lamson, H. W. (F)

Assinippi
Cary T. R., Jr. (M)

Athol
Tunnicliffe, W. W. (A)

Auburndale
Cheng, K. Y. (A)
White, A. D. (A)

Ayer
Harrington, J. V. (A)
Soltes, A. S. (A)

Bedford
Goulder, M. E. (A)
Hammond, G. H. (A)

Belchertown
Reilly, M. J. (A)

Belmont
Atchley, D. W., Jr. (M)
Cronin, L. J. (M)
Doherty, R. E. (A)
Dolbear, B. L. (SM)
Dudley, B. (SM)
Duncan, N. L. (A)
Elliott, C. I. (A)
Getting, I. A. (SM)
Harper, J. B., Jr. (A)
Hickman, R. W. (SM)
Hildebrand, J. G., Jr. (VA)
Hunt, F. V. (F)
Karplus, E. (F)
King, C. J., Jr. (VA)
Klemperer, H. (A)
Lane, H. M. (SM)
Le Van, J. D. (A)
Luke, T. C. (M)
Lush, M. J. (A)
McElroy, P. K. (F)
Mercer, W. R. (SM)
Muller, R. H. (A)
Nottingham, W. B. (SM)
O'Day, M. D. (VA)
Reintjes, J. F. (SM)
Riblet, H. J. (A)
Rudenberg, H. G. (A)
Shaw, G. J. (A)
Stratton, J. A. (F)
Wagner, R. W. (M)
Wiesner, J. B. (A)
Woodward, R. H. (A)

Beverly
Biggs, O. H. (A)
Dillaby, E. F. (VA)
Gross, F. A. (A)
Little, R. P. (A)
Porter, R. P. (VA)
Sanchez, J. W. (A)

Beverly Farms
Hadfield, B. M. (SM)

Billerica
Paradise, F. (A)

Boston
Artman, R. G. (A)
Barrett, A. G. (A)
Barrett, R. M. (A)
Bishop, W. B. (M)
Blatt, F. J. (A)
Brastow, E. R. (A)
Brown, D. R. (A)
Cady, C. A. (SM)
Carnahan, C. W. (SM)
Cole, A. D. (A)
Dairiki, S. (A)
Dean, R. D. (A)
Di Nozzi, A. D. (A)
Epstein, D. J. (M)
Erickson, P. W. (M)
Fano, R. M. (A)
Franta, A. L. (A)
Garvey, E. P. (A)
Golembe, S. N. (M)
Handly, E. J. (A)
Harris, L. A. (A)
Hastings, T. M., Jr. (SM)
Hoff, K. (A)
Hudgins, W. D. (SM)
Kadet, J. (A)
Kim, Y. S. (A)
King, W. M. (A)
Loewenthal, M. (A)
MacDonald, C. J. (A)
McHoney, L. M. (M)
Meader, R. O. (M)
Millen, S. G. (A)
Miller, F. G. (A)
Powers, D. M. (A)
Randolph, L. W. (A)
Ricker, F. J. (A)
Rosenthal, I. (A)
Schindler, J. A. (A)
Schmertz, R. C., Jr. (A)
Stiles, W. J. (A)
Stoddard, J. P. (A)
Szekely, G. (A)
Thiessen, P. I. (A)
Thompson, J. F. (A)
Thomsen, E. C. (A)
Thurston, W. R. (A)
Verzuh, F. M. (M)
Von Alven, W. H. (M)
Weinberg, L. (A)
Weingarten, J. (A)
Wentink, T., Jr. (M)
White, G. M. (M)
Young, C. W. (A)

Brighton
Berman, E. (A)
Day, W. J. (A)
Fraim, E. G. (A)
Garber, S. H. (A)
Gerber, I. B. (A)
Greene, B. F. (A)
Lane, J. D. (A)
Mirkin, M. (A)
Montanari, R. E. (A)
Morley, H. B. (M)
Silverman, E. (A)
Vacca, R. H. (A)
Wallace, G. S. (VA)
Webster, W. G. (SM)
Weiner, J. R. (A)
Yurt, F. X. (VA)

Brockton
Fortier, O. V. (A)
Hannon, S. A. (A)
MacAdam, M. L. (M)

Brookline
Bittner, B. J. (A)
Bloom, J. H. (A)
Chu, L. J. (VA)
Coleman, A. F. (M)
Davenport, H. R. (VA)
Davidson, D. (A)
Fendrich, L. (A)
Flanders, L. M., Jr. (M)
Howard, F. J. (A)
Kelly, R. S. (A)
Krutter, H. (SM)
Miller, A. (A)
Rappaport, M. B. (VA)
Rines, D. (VA)
Roberts, G. T. (A)
Rowland, H. J. (SM)
Segel, H. P. (A)
Shelton, E. J., Jr. (A)
Smith, G. S. (A)
Wallman, H. (A)
Winick, M. (A)

Cambridge
Alford, A. (F)
Allison, D. M., Jr. (A)
Angelakos, D. J. (A)
Angelo, E. J., Jr. (A)
Arlin, M. N. (M)
Batchelder, L. (SM)
Baum, R. F. (A)
Belinski, A. M. (A)
Beranek, L. L. (SM)
Beth, E. W. (A)
Blackburn, J. F. (A)
Blake, F. G., Jr. (A)
Bogart, R. M. (A)
Bowles, E. L. (F)
Brown, H. W. (A)
Buckley, E. F. (A)
Carpenter, R. O. (M)
Cerwin, F. J. (A)
Chaffee, E. L. (F)
Chow, W. T. (A)
Clapp, J. K. (F)
Clapp, R. E. (A)
Clarke, L. G. (A)
Cohn, S. B. (M)
Cushman, R. W. (M)
Curtis, C. T. (M)
Dalton, R. A. (A)
Dasher, B. J. (A)
Davenport, W. B., Jr. (A)
De Blois, S. W. (M)
Debs, R. J. (M)
Dentler, C. E. (M)
Dominick, J. (A)
Donovan, A. C. (A)
Dorichug, H. A. (M)
Downing, R. E. (VA)
Dudley, B. (SM)
Dunn, B. C., Jr. (A)
Eames, A. M., Jr. (M)
Eastham, M. (F)
Fallows, E. M. (A)
Fallows, R. (A)
Feistel, H. (A)
Ferrier, D. T. (SM)
Flammer, C. C. (A)
Fluharty, R. G. (A)
Friend, A. W. (SM)
Garber, T. (A)
Ghelardi, R. P. (A)
Gilleo, M. A. (A)
Gilman, M. A. (VA)
Glaser, R. A. (A)
Granger, J. V. (M)
Gray, T. S. (SM)
Gross, T. A. O. (M)
Hall, A. C. (SM)
Hall, G. O. (A)
Halstead, W. K. (A)
Hathaway, S. W. (M)
Heaton, R. G. (A)
Henry, J. H. (A)
Hersh, J. F. (A)
Hill, A. G. (SM)
Hillger, R. E. (A)
Hofman, J. A. (A)
Holt, R. B. (M)
Howland, B. (A)
Huggins, W. H. (A)
Kennedy, F. (A)
Kerr, D. E. (VA)
King, D. D. (M)
Knauss, H. C. (M)
Kunz, K. S. (A)
Lewis, F. D. (VA)
Lewis, G. A. (A)
Linne, E. R. (A)
Logemann, H., Jr. (M)
Loutit, J. A. (M)
Lu, P. W. (A)
Lusted, L. B. (A)
Lyman, F., Jr. (VA)
MacLay, F. P. (A)
MacNee, A. B. (A)
Magnusson, E. F. (A)
McGuigan, W. D. (M)
Middleton, D. (M)
Mooers, C. N. (A)
Moreno, T. (A)
Muncy, J. H. (M)
Nicholas, J. F. (A)
Palme, K. B. (A)
Papas, C. H. (A)
Parker, E. O., Jr. (A)
Phillips, H. B. (SM)
Pierce, G. W. (F)
Ploetz, G. P. (A)
Pontecorvo, P. J. (A)
Pritchard, W. L. (A)
Pruett, J. W. (A)
Quint, A. S. (A)
Racine, R. F. (A)
Richmond, M. R. (A)
Robinson, P. E. (A)
Rogers, J. R. (SM)
Ruze, J. (M)
Saylor, W. R. (SM)
Scully, D. W. (A)
Sensiper, S. (SM)
Silsbee, H. B. (A)
Sinclair, D. B. (F)
Sinsheimer, R. L. (A)
Sloan, G. H. (A)
Smith, C. P. (M)
Strandberg, W. (A)
Svihel, B. T. (A)
Swenson, G. W., Jr. (A)
Thiessen, A. E. (SM)
Thompson, M. F. (A)
Thurston, W. R. (A)
Tuttle, D. F., Jr. (M)
Vosburgh, M. C. (A)
Walworth, W. Y. (A)
Weiss, M. T. (A)

Wheatland, D. P. (A)
Whitby, O. (M)
Wilds, K. L. (A)
Wingate, S. A. (A)
Winternitz, T. W. (A)
Wooley, R. L. (A)
Yakutis, A. J. (A)
Youtz, P. (A)

Canton
Geoghegan, E. D. A. (VA)

Carlisle
French, H. E. (A)

Charlemont
Miller, G. N. (A)

Charlton Depot
Wakefield, J. M. (A)

Chelsea
Linsky, L. B. (A)

Cheshire
Leonard, S. C. (VA)

Chestnut Hill
Brown, C. H. (A)
Porter, J. D. (A)

Chicopee
Akers, R. F. (A)
Broadacki, P. F. (A)
Fernandez, F. (M)
Stefanik, S. M. (A)

Cochituate
Halder, G. W. (M)
Keleher, A. E., Jr. (M)

Concord
Benfield, A. E. (M)
Clark, J. F. (A)
MacDonald, W. S. (M)
Mathis, G. (M)
Packard, L. E. (SM)
Smith, M. T. (SM)
Tuttle, W. N. (SM)

Danvers
Cann, A. F. (A)
Koen, F. T. (A)

Dedham
Austin, J. F. (A)
Jenks, F. A. (SM)
Martin, S. T. (SM)

Dorchester
Baptiste, G. F. (A)
Berman, J. (A)
Blend, H. (A)
Burgoyne, C. L. (A)
Clarke, R. S. (VA)
Di Loreto, A. A. (A)
Fogg, E. W. (A)
Freedman, J. L. (M)
Harrison, R. P. (A)
Hautaniemi, B. W. (A)
Heins, H. (A)
Knight, H. M. (A)
Renner, G. W. (A)
Renner, J. J. (M)
Rivers, R. (A)
Rubin, M. D. (A)
Ruplenas, R. J. (M)
Simpson, M. (M)
Stanney, W. J. (A)
Walker, R. M. (A)
Wilder, W. W., Jr. (A)

Dover
McCormack, R. L. (A)
Mills, H. J. (VA)

East Boston
Massaro, H. J. (A)
Morelli, A. (A)
Pesaturo, E. R. (A)

East Braintree
Hollis, H. H. (SM)

East Gloucester
Lawson, N. H. (A)

East Pepperell
Wood, R. (SM)

East Walpole
Mahoney, T. F. (A)

Everett
Crisp, R. F. (A)

Fairhaven
Bailey, W. M. (SM)
Deters, A. A. (A)
Hutchins, W. R. (SM)

Fall River
Ryan, J. E. (A)
Vezina, A. J. (A)

Fitchburg
Arthur, G. M. (A)
Stannard, G. E. (A)

Foxboro
Broster, G. S. (A)

Gardner
Bernier, J. A. (A)
Engman, G. E. (A)

Gloucester
Hammond, J. H., Jr. (SM)
Ktistes, P. J. (A)
Purington, E. S. (SM)
Runkle, L. D. (A)

Great Barrington
Hemmes, R. T. (M)
Sleeper, M. B. (SM)

Greenbush
Brooks, G. W. (VA)

Greenwood
Butts, C. (M)

Grove Hall
Shnitzler, R. K. (A)

Groveland
Ley, G. S. (M)

Harvardevens Village
Elmer, W. D. (M)
Hausman, A. H. (A)
Swingle, D. M. (A)

Haverhill
Spokus, P. P., Jr. (A)
Thompson, G. L. (A)

Haydenville
Curtis, L. F. (SM)

Hingham
Cowperthwait, F. N., Jr. (A)
Dougherty, J. D. (A)
Drisko, B. B. (VA)
Harris, C. C. (SM)
Madsen, C. J. (SM)
Phelps, R. E. (VA)
Pratt, F. (VA)
Wood, J. O. (M)

Holliston
Garceau, L. (VA)
Muchow, A. J. (VA)

Holyoke
Kennedy, D. J. (A)
King, F. H. (A)
Murphy, J. F. (A)
Zielinski, C. A. (A)

Hudson
Meserve, G. D. (A)

Hyde Park
Urlovic, W. C. (A)

Ipswich
Baker, J. R., Jr. (A)
Hiatt, R. E. (M)
Horton, J. W. (F)
Morin, J. A. R. (A)

Islington
Burns, H. S. (M)
Whittemore, H. B. (A)

Jamaica Plains
Alphen, P. F. (A)
Bishop, H. M. (A)
Hanopol, L. (VA)
Hinckley, G. A. (A)
Peterson, R. A. (A)
Pihl, G. E. (A)
Teachman, A. E. (VA)

Lawrence
Bettencourt, J. P. (A)
Jowdy, G. P. (A)
Lamontagne, R. S. (M)

Lee
Forni, P. A. (A)

Lexington
Bousquet, A. G. (SM)
Bowker, W. H. (A)
Brodhead, W. M. (A)
Burgess, L. M. (M)
Carpenter, R. B., Jr. (A)
Chute, D. H. (M)
Cleveland, A. W. (M)
Dawes, H. H. (M)
Dearborn, F. K., Jr. (A)
Edwards, C. M. (M)
Hale, R. C. (A)
Hall, W. M. (SM)
Hance, H. V. (M)
Kline, F. S. (VA)
Lewis, F. D. (VA)
Littlejohn, H. C. (A)
Martel, C. W. (M)
Mimno, H. R. (VA)
Oppenheim, J. N. (M)
Packard, R. H. (A)
Parker, H. H. (A)
Pilkington, E. J. (VA)
Quimby, R. S. (M)
Reegan, J. E. (M)
Sanders, R. C., Jr. (VA)
Sheridan, W. F. (A)
Thurston, J. N. (A)
Weis, J. L. (M)
Wentworth, J. M. (A)
Wilson, H. M. (SM)

Lincoln
Scott, H. H. (SM)
Wellman, B. (VA)
Wescott, V. C. (A)

Littleton
Houghton, R. W. (A)

Longmeadow
Bassett, E. D. (A)
Benner, H. J. (M)
Brackett, Q. A. (SM)
Cohen, M. (VA)
Gostyn, E. (M)
Hadley, A. M. (A)
Webster, R. H. (A)

Lowell
Atwell, R. G. (A)
Brown, H. W. (VA)
Cielakie, A. E. (A)
Gavriel, S. N. (A)
Giddis, A. N. (A)
Grondalski, S. J. (A)
Landry, L. H. (VA)
MacGowan, J. G., Jr. (A)
Pratt, A. (M)

Lynn
Foss, F. A. (A)
Lockhart, H. H. (A)
Parsons, R. L., Jr. (M)

Malden
Baller, M. D. (M)
Caywood, R. W. (A)
Hood, C. R. (A)
Williams, E. E. (M)

Manchester-By-The-Sea
Wildman, D. C. (A)

Mansfield
Dean, L. W. (A)

Marblehead
Bauer, P. S. (VA)
Chun, H. H. (VA)
Dane, F. W. (SM)
Harding, R. W. (A)
Hastings, M. S. (A)
Hubbard, M. M. (SM)
Massa, E. A. (M)
Riordan, N. F. (A)
Stromeyer, C. F. (VA)
Westphal, W. B. (A)

Marion
Munzer, L. F. (M)

Marlboro
Anderson, A. W. (A)

Marshfield
Rhoad, E. J. (M)

Mattapan
Robinson, S. (A)

Mattapoisett
Arnold, O. F. A. (A)

Medfield
Adams, G. J. (A)
Manning, C. T. (M)
Swallow, J. H. (A)

Medford
Bianco, J. F. (A)
De Young, J. A. (A)
Di Mattia, A. L. (A)
Hall, A. C. (SM)
Harrison, J. R. (VA)
Hobbs, C. F. (M)
Ivers, J. H. (A)
MacFarlane, G. M. (A)
Nicodemus, F. E. (A)
Norby, H. A. (A)
Saunders, A. C. W. (M)
Stevens, W. J. (A)
Stiles, W. J. (A)
Walkley, S. E. (A)

Melrose
Farnsworth, E. P. (A)
Frederick, A. H. (A)
Larkin, K. T. (M)
Lewis, E. W. (A)
Rogers, W. S. (A)
Shaw, H. S. (F)

Middleton
Tuckerman, L. S. (A)

Milford
Kurlansky, S. (A)
Tinkham, M. E. (A)

Milton
Bradshaw, D. B. (A)
Bulger, J. F. (A)
Finkelstein, N. A. (A)
Pritchard, E. M. (VA)
Rochester, N. (M)
St. Jean, L. E. (A)

Nahant
Mofenson, J. (M)
Whittier, C. H. (A)

Nantucket
Yasinsac, A. (A)

Natick
Stetson, R. B. (A)
Tippitt, G. E. (A)
Watt, C. W., Jr. (A)

Needham
Burt, W. G., Jr., (A)
Henry, J. M. (VA)
Pease, M. C., III (M)
Satterlee, H. A. (A)
Stetson, H. T. (VA)
Whittier, E. W. (VA)

Needham Heights
Pamler, R. G. (M)

New Bedford
Deters, A. A. (A)
Kahn, L. (VA)
Klemm, G. H. (A)
Packard, K. N. (A)
Przybyla, A. (A)
Teixeira, N. A. (A)

Newbury
Waterman, C. H. (M)

Newburyport
Mavroides, J. G. (A)
Wimpy, E. K. (A)

Newton
Bolan, R. S. (M)
Considine, D. P. (A)
Dawson, J. W. (A)
Dean, W. B. (A)
Lehr, C. G. (M)
Pekin, H. T. (SM)
Rockwood, A. C. (SM)
Smith, L. C. (SM)
Wheeler, L. P. (F)
Wisenbaker, T. C. (A)

Newton Center
Coleman, P. D. (A)
Goldman, S. (SM)
Gray, D. W. (A)
Hauser, W. H. (A)
Heick, B. K. (VA)
Heppner, S. A. (M)
Hosmer, D. W. (A)
Kaye, R. L. (A)
Ludwig, J. H. (VA)
Moore, C. (SM)
Pickard, G. W. (F)
Shore, L. (A)
Waite, S. (VA)
Zottu, P. D. (F)

Newton Highlands
Cole, B. R. (A)
Cummings, S. J. (A)
Darden, R. R., Jr. (M)
Downs, G. L. (A)
Eckhardt, D. L. (M)
Krim, N. B. (VA)
Lowery, H. R. (A)
Petersen, A. P. G. (SM)
Towle, M. L. (A)

Newton Lower Falls
Atwood, W. L. (A)

Newton Upper Falls
Gaisunas, A. E. (A)

Newtonville
Blitz, D. (M)
Bridgett, A. W. (A)
Fricks, R. E. (M)
Hartford, W. W., Jr. (A)
Schutz, H. (SM)
Steele, E. R. (A)
Worthen, C. E. (SM)

Norfolk
Howard, G. E. (SM)

North Adams
Allison, W. M. (A)
Brafman, H. E. (A)
Dorst, S. (A)
Shuey, L. S. (A)
Tyler, R. (A)

Northampton
Combie, A. A. (A)
Copeland, W. T. (A)
King, A. D. (A)

North Beverly
Briggs, R. S. (A)

North Easton
Ames, D. (A)

North Quincy
Pote, A. J. (A)

North Randolph
Henning, P. A. (A)

North Reading
Millen, J. (VA)

North Weymouth
Toivonen, E. O. (M)

Norton
Woodward, C. A. Jr. (SM)

Norwood
Fees, F. K. (M)

Peabody
Liimatainen, T. (M)

Pittsfield
Allured, J. B. (A)
Anderson, J. G. (A)
Blossom, L. R. (A)
Grahame, F. W., Jr. (A)
Farris, E. H. (A)
Green, W. W. (A)
Harrison, K. E. (A)
Podolsky, L. (M)
Whipple, R. W. (A)

Quincy
Adler, B. (A)
Brennan, J. E. (A)
Grass, A. M. (VA)
White, W. (A)

Randolph
Larsen, L. C. (A)

Reading
Frater, G. E. (A)
Kuczum, C. G. (A)
Nye, J. H. (M)
Rose, J. T. (A)
Skitzki, P. (M)

Revere
Brown, E. B. (A)
Stancu, G. S. (A)

Rockport
Wendell, E. N. (F)

Roslindale
Ausin, H. A. (M)
Goodway, J. T. (A)
Hurley, W. A. (M)
Jasik, H. (SM)
Kostecki, W. (A)
Miller, W. T. (A)
Nyswander, R. E. (A)
Palmieri, P. J. (A)
Ryder, E. M. (A)

Rowe
Jackson, E. W. (A)

Roxbury
Curtis, W. C. (A)
Freedman, N. (A)
Hefter, M. (A)
Kline, J. (M)
McGuinness, J. W. (A)
Wolf, S. H. (A)

Salem
McMillan, E. B. (SM)
Ropes, G. F. (A)
Swan, R. A., Jr. (M)

Saxonville
Shepard, E. S. (A)

Scituate Harbor
Alexander, R. M. (A)

Sharon
Cade, P. J. (A)
Cushman, R. W. (A)
Johnson, R. E. (A)
Pearce, W. B. (M)

Somerville
Benkley, F. G. (A)
De Hart, W. R. (A)
Field, W. G. (A)
Hilsdale, F. A. (A)
Hisamoto, R. M. (A)
Huntley, W. F. (M)
Kolster, C. C. (SM)
MacMillen, W. J. (A)
Mandell, A. (A)
Trimble, R. F. (M)
Waddell, R. B. (A)

South Acton
Kaufmann, H. W. (A)
Kienow, O. E. (M)
Palmer, F. J. (A)

South Attleboro
Kray, E. (A)

South Boston
Kalakowsky, C. B. (A)

Southbridge
Bernier, E. J. (A)
MacConnell, C. W. (A)
Tillyer, E. D. (SM)
Wells, J. M. (SM)

South Dartmouth
Davis, S. L. (SM)

South Hadley Falls
Humphrey, T. R. (A)

South Hamilton
Davis, C. W. (A)

South Lancaster
Koval, D. (A)

South Lincoln
Kather, E. N. (M)

South Weymouth
Fisher, A. B. (M)
Hill, H. F. (VA)
Mielke, E. S. (A)
Osgood, F. E. (A)

Springfield
Andrews, W. J. (A)
Bedard, G. O. (M)
Bessette, R. F. (A)
Blow, A. W. (A)
Call, S. S. (A)
Cameron, J. A. (VA)
Creaser, I. (A)
Cushing, T. F. (VA)
Dewey, C. S. (A)
Fratar, F. J. (M)
Lockwood, L. W. (A)
Lyman, J. R. (A)
Moses, M. G. (M)
Plummer, C. H. (A)
Reilly, L. A. (M)
Rich, E. A. (A)
Ryan, W. E. (A)
Sharrard, L. L. (A)
Smith, W. M. (SM)
Webber, F. G. (VA)

Stoneham
Gardner, H. A. (M)

Stoughton
Mackiernan, D. S., Jr. (A)

Sturbridge
Crosby, C. (M)

Sudbury
Forbes, G. D. (M)

Swampscott
French, I. F. (A)
Heppner, S. A. (M)
Moses, R. C. (M)
Zimmerman, H. J. (M)

Taunton
Barker, D. R. (VA)

Tyngsboro
Spindell, F. A. (M)

Uphams Corner
Thompson, N. (A)

Waban
Greene, G. G. (M)
Morrison, L. H. (A)
Sprague, R. M. (VA)

Wakefield
Boland, T. J. (A)
Fernald, A. E. (A)
Webb, H. A. J. (M)

Walden
Whitford, J. R. (A)

Walpole
Kleps, E. W. (A)

Waltham
Abate, A. (M)
Alsmeyer, R. L. (A)
Alstad, N. J. (A)
Broomfield, J. L. (A)
Brown, D. F. (A)
Duffy, M. P. (A)
Dukat, F. M. (M)
Gillespie, C. N. (A)
Gledhill, R. W. (M)
Gottier, T. L. (SM)
Hines, J. P. (A)
Hurff, J. L. (VA)
Karp, H. (A)
Kramer, A. W. (M)
Jacobs, B. S. (M)
Leiper, J. H. (M)
Lindahl, H. C. (A)
Loomis, G. W. (A)
Lowery, W. E. (M)
Newton, G. C., Jr. (M)
Porter, A. D. (A)
Richardson, C. M. (A)
Santangelo, J. (A)
Searle, R. W. (A)
Shabeck, J. C. L., Jr. (A)
Stockman, H. (SM)
Waters, R. A. (M)
Welch, G. H. (A)

Watertown
Aronow, S. (A)
Bondy, M. F. (A)
Burke, C. T. (F)
De Shon, H. C. (A)
Eynatian, V. K. (A)
Field, R. F. (F)
Finley, A. D. (A)
Hollingsworth, L. M. (SM)
Nelson, A. A. (A)
Radford, W. H. (SM)
Randall, E. (A)
Rauh, M. A. (A)
Read, V. H. (A)
Rehler, K. M. (A)
Samson, E. W. (M)
Simmons, A. J. (A)
Vant, L. M. (M)
Williams, S. B. (A)

Wayland
Ballou, E. T. M. (M)

Webster
Rudenauer, F. (M)
Stuart, R. M. (A)

Wellesley
Brainerd, H. B. (A)
Bristol, H. B. (A)
Buckbee, J. A. (M)
McDowell, L. W. (SM)
Smith, H. J. (VA)
Suter, H. (SM)

Wellesley Hills
Chaffee, R. E. (M)
Eager, M. (SM)
Guillemin, E. A. (A)
Herbert, C. (SM)
Humphrey, G. S. (A)
Tucker, F. L. (A)
Weeks, P. T. (SM)

Wenham
Tarr, R. K. (A)

West Acton
Gunn, K. C. C. (A)

Westboro
Wyman, A. W. (A)

West Concord
Campbell, C. A. (A)
Damon, R. W. (A)
Sodermann, R. A. (SM)

Westford
Chace, W. G. (A)

West Lynn
White, A. (A)

West Medford
Butman, R. C. (A)
Stevens, C. A. (A)

West Newton
Babakian, J. (M)
Dixon, R. K. (M)
Hergenrother, R. C. (VA)
Hoadley, J. C. (A)
Myers, H. L. (M)
Timbie, W. H. (SM)
Trussell, A. B. (M)

Weston
Brown, W. C. (VA)
Eichorn, C. W. (M)
Gross, F. A. (VA)
Hills, C. E., Jr. (VA)
Johnson, R. A. (A)
Ready, W. A. (SM)

West Roxbury
Alessi, P. A. (M)
Downing, J. T. (A)
Haddad, S. G. (A)
Saad, T. S. (A)
Young, C. W. (A)

West Springfield
Burnett, K. H. (A)

Westwood
Staples, E. B. (A)

Whitman
Blanchard, E. P. (A)
Pennini, R. V. (A)
Tucker, C. E. (SM)

Williamstown
Curry, J. R. (A)
Holt, A. W. (A)
Stabler, H. P. (A)

Winchester
Bowne, W. L. (A)
Browning, G. H. (SM)
Chandler, G. E. (M)
Foley, J. H. (A)
Hanson, P. R. (M)
Hill, D. B. (A)
King, R. W. P. (SM)
McFarlane, D. J. (M)
Mingins, C. R. (SM)
Richmond, H. B. (F)
Segerstrom, C. A., Jr. (A)
Smith, C. V. L. (M)

Winthrop
Deutsch, R. (A)
Kelleher, R. L. (A)
Stacy, J. E. (M)
Tainter, H. G., Jr. (A)

Woburn
Duffany, H. P., Jr. (A)
Katz, L. (M)
Seifert, W. W. (A)

Wollaston
Dillon, J. D. (A)
Edmonston, A. S. (A)
Jenks, P. E. (M)
Tompkins, G. (A)
Whitham, G. E. (A)

Worcester
Alexander, D. C. (A)
Browning, E. A. (VA)
Connolly, J. K. (A)
Frost, E. W. (A)
Handleman, M. (A)
Howes, D. E. (VA)
Lekberg, D. G. (A)
Levitsky, F. J. (A)
Manoog, J. C. (A)
Newell, H. H. (SM)
Powers, J. T. (A)
Wilson, R. D. (A)

MICHIGAN

Adrian
Moehl, K. R. (A)

Allegan
Boll, R. W. (M)

Allen Park
Fisk, R. H. (A)
Schultz, F. V. (SM)

Ann Arbor
Allured, R. B. (A)
Attwood, S. S. (SM)
Black, J. R. (A)
Bozoian, M. (A)
Brown, R. K. (A)
Burks, A. W. (M)
Campbell, G. R. (VA)
Chaney, L. W. (A)
Cline, J. F. (SM)
Dolph, C. L. (M)
Dow, W. G. (SM)
Early, H. C. (A)
Gomberg, H. J. (M)
Holland, L. N. (SM)
Holmboe, L. W. (A)
Iffland, J. J. (A)
Jastram, P. S. (M)
Kanter, M. (A)
Kazda, L. F. (A)
Lee, M. (A)
Middleton, W. B. (A)
Miller, R. E. (A)
Needle, J. S. (A)
Ohlsson, R. L. (A)
Podewils, N. R. (A)
Schaefer, E. J. (A)
Stewart, F. L. (A)
Strand, J. (A)
Stromatt, F. C. (VA)
Sturgeon, S. S. (VA)
Tetley, W. H. (M)
Theofil, D. V. (A)
Welch, H. W., Jr. (A)

Bath
Drew, I. E. (M)

Battle Creek
Dewey, C. E., Jr. (A)
Stone, E. J. (A)
Strohm, W. E. (M)

Bay City
Falor, O. K. (A)

Berkley
Thrun, A. G. (VA)

Birmingham
Cassidy, R. J. (M)
Emmet, R. A. (M)
Hyland, L. A. (VA)
Masters, W. S. (A)
McCall, W. A. (A)
McDowell, W. F. (A)
Selvidge, H. (SM)
Zatorsky, E. F. (VA)

Brown City
Detweiler, D. C. (A)

Buchanan
Mitchell, T. G. (A)

Cadillac
Nelson, W. H. (SM)

Centerline
Fachilla, M. (A)

Charlotte
Eggleston, A. E. (A)
Gorton, E. D. (A)
Moehring, W. D. (A)
Rypstra, B., Jr. (A)
Wells, L. V. (SM)
Wensley, R. J. (A)

Concord
Warnock, E. W. (M)

Dearborn
Bevis, J. H. (A)
Boltz, H. A. (M)
Broughton, G. E. (A)
De Pool, N. S. (A)
Germany, O. (A)
Lien, C. E. (VA)
McCloud, W. W. (A)
Mielke, W. F., Jr. (A)
Roggenbuck, R. A. (A)
Scherba, M. B. (A)

Detroit
Agren, R. (A)
Albers, J. M. (A)
Almas, S. L. (M)
Barr, B. (A)
Blett, E. B. (VA)
Boundy, G. G. (SM)
Boyda, M. C. (A)
Boyter, R. W. (A)
Brauner, J. (A)
Buchanan, A. B. (SM)
Buckwitz, S. (A)
Buehler, F. A. (A)
Butcher, J. H. (A)
Carter, G. W. (SM)
Clark, E. H. (A)
Clark, N. M. (A)
Connell, L. H. (A)
Dacken, L. L. (VA)
Daugherty, R. M. (M)
Davis, C. (VA)
Delmege, A. H. (A)
Denstaedt, E. C. (SM)
Donovan, R. (A)
Dopkowski, W. J. (A)
Drouillard, C. T. (A)
Dushane, H. W. (A)
Eisen, C. G. (VA)
Ferguson, K. (A)
Fisk, N. C. (M)
Fitzner, B. J. (A)
Freer, J. E. (A)
Friedenthal, A. (M)
Fukuda, F. (A)
Gill, C. G. (A)
Gulevich, J. H. (A)
Hanes, M. (A)
Hansen, D. K. (A)
Harp, R. C. (A)
Harriman, D. W. (A)
Hartz, F. M. (A)
Head, J. W. (A)
Hein, D. W. (A)
Heiser, E. S. (SM)
Hess, H. M. (M)
Hill, I. D. (A)
Hoffer, J. M. (A)
Huffmaster, G. W. (A)
Hughes, E. J. (M)
Hungerford, R. S. (A)
Hunt, W. A. (A)
Hutchinson, R. W. (A)
Jeziak, S. F. (A)
Jones, C. W. (A)
Kanfer, R. (A)
Kearney, K. (A)
Kehoe, V. P. (A)
King, B. A., Jr. (A)
King, L. E. (VA)
Klinkhamer, A. J. (A)
Kocher, C. F. (M)
Kranz, H. E. (SM)
Kubala, A. M. (A)
Lawrence, S. C. (A)
Le Barre, S. D. (M)
Lee, E. H. I. (SM)
Lessem, M. (A)
Leydorf, G. F. (SM)
Lyman, H. J. (SM)
Madgett, W. H. (A)
Manning, D. C. (A)
Manning, S. R. (VA)
McClymonds, C. C. (A)
McFatridge, J. E. (A)
Membery, A. H. (A)
Mobley, R. C. (A)
Nathan, R. (M)
Norton, J. M. (A)
Olson, D. R. (A)
Osborne, R. L. (VA)
Pecar, A. J. (A)
Peck, S. M. (A)
Penhollow, H. A. (VA)
Peterman, A. F. (A)
Radin, B. G. (A)
Ramsay, R. D. (A)
Reinhold, H. W. (A)
Reiss, N. D. (A)
Rissi, T. L. (A)
Robb, D. E. (SM)
Roush, F. H. (VA)
Runkle, E. G., Jr. (A)
Satullo, A. R. (A)
Scanlan, R. J. (VA)
Schmeisser, K. R. (M)
Scrimshire, J. B., Jr. (A)
Scripps, W. E., II (A)
Sessler, F. E. (M)
Shepley, L. (A)
Smith, B. F. (VA)
Spragg, L. A. (A)
Stahl, T. H., Sr. (A)
Sterling, S. (A)
Stewart, A. W. (M)
Stone, J. (A)
Storr, E. E. (A)
Stuart, B. (A)
Stump, A. M. (M)
Taylor, H. E. (A)
Teague, A. G. (A)
Tilly, V. F. (A)
Tompos, S. F. (A)
Town, R. A. (A)
Turkish, M. C. (A)
Walton, H. E. (A)
Warner, V. S. (A)
Webb, A. E. (A)
Weppler, H. E. (M)
Williamson, L. C. (A)
Wilton, V. A. (A)
Young, E. W. (A)
Zalewski, W. J. (A)
Ziniuk, M. A. (A)

East Lansing
Fortman, K. R. (M)
Goodell, C. E. (A)
Nelson, R. F. (A)
Osborn, B. K. (M)
Strelzoff, J. A. (A)

Ecorse
Duzick, F. E. (A)
Saigon, N. D. (VA)

Edwardsburg
Christophel, G. H. (A)

Farmington
Swarthout, K. L. (A)

Ferndale
Amman, E. A. (A)
Townley, R. K. (A)

Flatrock
Munro, G. M. (A)

Flint
Blue, N. E. (A)
Fallain, F. D. (A)
Frontjes, M. (A)
Ryan, G. E. (VA)

Frankfort
Frederickson, C. A. (A)

Freeland
Carpenter, R. H. (VA)

Grand Rapids
Berg, R. C. (A)
Davis, R. L. (VA)
De Jong, P. G. (A)
Osburn, C. M. (A)
Preston, F. F. (A)

Grandville
Korb, A. W. (M)

Grass Lake
Laban, J. (M)

Grosse Pointe
Smale, V. E. (A)

Grosse Pointe Park
Guadagnino, C. (A)

Grosse Pointe Woods
Frank, G. C. (A)

Hartford
Robinson, M. U. (A)

Hastings
Branch, R. (VA)

Highland
Beach, E. H. (M)

Highland Park
Byerlay, H. L. (SM)
Chapman, F. W. (A)
Gould, H. S. (VA)
Hubbard, W. B. (A)
Stinson, R. C. (VA)

Holland
Tysse, H. L. (VA)
Westrate, M. C. (A)

Houghton
Burroughs, H. A. (SM)
Jones, R. J. (A)

Iron Mountain
Ottum, R. W. (A)

Ironwood
Van Slyck, W. S. (A)

Jackson
Baker, F. J. (A)
Best, C. A., Jr. (A)
Freeman, S., Jr. (A)
Gelzer, J. R. (M)
Knubbe, H. (M)
Liedholz, G. A. (A)
Nason, D. B. (M)
White, R. T. (M)
Wirtanen, C. W. (A)

Kalamazoo
Covell, A. E. (A)
Fetzer, J. E. (SM)
Gay, P. S. (VA)
Lee, C. E. (A)
Marburger, W. G. (A)
Owsiany, A. R. (A)
Reefman, W. E. (A)
Woods, O. R. (A)

Lake Orion
Jewell, E. J. (A)

Lincoln Park
Puttick, A. W. (A)

Marenisco
Thomas, A. A. (A)

Mason
Gaiden, E. J. (A)

Michigan Center
Horrell, M. W. (M)

Midland
Bauss, H. H. (A)
Woodland, P. C. (A)

Monroe
Tank, H. F. (VA)

Morenci
Cottrell, M. (VA)

Mount Morris
Anderson, H. J. (M)

Muskegon
Castenholz, F. E. (M)
Hewitt, C. T. (VA)
Garcia, S. C. (M)
Krivitzky, G. (VA)
Schecter, C. W. (A)

Negaunee
Blee, G. C. (A)

Owosso
Wirth, M. H. (A)

Oxford
Sharp, J. W. (SM)

Paw Paw
Evans, R. J. (A)
Stansfield, S. J. (M)

Pleasant Ridge
Miller, O. V. (VA)
Tieman, C. R. (A)

Pontiac
Burge, F. L. (A)
Cook, W. N. (A)
Koerner, F. A. (A)
Maxim, W. A. (A)
Ragsdale, W. H. (A)

Rives Junction
Monroe, D. G. (A)

Roseville
Meltvelt, H. (M)

Royal Oak
Barnes, R. R. (A)
Coates, A. L. (VA)
Frincke, P. O. (M)
Gundy, P. L. (A)
Larime, L. H. (M)
Parker, R. D. (SM)
Pringnitz, N. E. (A)
Watschke, M. V. (A)
Wolcott, E. G. (M)

Saginaw
Ansorge, H. W. (A)
Ernst, A. A. (A)
Hensel, M. L. (A)
Kelb, A. J. (A)

Saint Clair Shores
Gardner, D. R. (M)

Saint Joseph
Zick, E. J. (A)

South Lyon
Gray, G. E. (A)

Spring Lake
Rogers, J. S. (A)

Stevensville
Williams, A. P. (A)

Sturgis
Grim, R. L. (A)

Three Rivers
Perkins, M. L. (VA)

Traverse City
Biederman, L. M. (M)
Fair, R. G. (A)

Trenton
Mills, G. L. (A)
Workman, W. B. (A)

Walled Lake
Ristow, H. E. (M)

Wayne
Lindsey, W. F. (A)

Willow Run Village
Battey, H. B. (A)
Brewer, G. R. (A)
Bullock, G. M. (A)
Niles, J. R. (A)
Sorem, H. (A)

Wyandotte
Clark, R. K. (VA)
Moore, J. B. (VA)
Wesser, C. H. (SM)

Ypsilanti
Augustus, L. M. (VA)
Hardgrave, W. F. (M)
Howard, L. R. (A)
Wilbur, E. T. (M)
Williams, R. O. (SM)

MINNESOTA

Anoka
Anderson, I. H. (M)
Collier, G. X. M. (VA)

Alexandria
Langer, W. A. (A)

Bemidji
Myhre, L. C. (A)

Champlin
Lautzenheiser, R. W. (A)

Chisholm
Dolhar, J. N. (A)

Duluth
Dettman, R. A. (A)
Holmbeck, C. H. (A)
Horton, L. L. (A)
Klopp, A. E. (A)
Lounsberry, W. H. (A)
Persons, C. B. (SM)
Pramann, H. J. (A)

Elmore
Foley, H. J. (A)

Faribault
Folsom, D. E. (M)
Hyde, J. E., Jr. (A)

Farmington
Mullaney, F. C. (A)

Glen Lake
Biltz, F. J. (A)

Mankato
Hauts, J. J. (A)

Minneapolis
Alderson, R. C. (A)
Allison, R. E. (SM)
Anderson, G. P. (A)
Anderson, L. T. (M)
Anderson, P. M. (M)
Anderson, W. M. (A)
Babcock, D. F. (A)
Barron, F. E. (A)
Bellinger, C. E. (A)
Beloungy, J. J. (SM)
Beugen, A. A. (M)
Carney, P. G. (VA)
Chapin, M. F. (M)
Church, G. H. (A)
Ciscel, B. H. (M)
Cohen, A. A. (M)
Culbertson, G. K. (M)
Culmer, W. J. A. (A)
De Malignon, R. G. (A)
Ecklen, C. E. (A)
Eckstein, E. A. (A)
Engelman, C. W. (M)
Featherstone, R. P. (A)
Gamara, N. J. (M)
Hallaway, A. B. (M)
Hanson, R. L. (A)
Hartig, H. E. (SM)
Hawkins, W. A. (A)
Headen, H. V. (A)
Hendry, A. J. (A)
Herrmann, F. W. (M)
Hirashima, H. K. (A)
Hird, F. S. (A)
Knox, M. E. (M)
Laitinen, W. R. (A)
Lehnert, W. E. (A)
Lender, G. A. (A)
Ludwig, M. R. (M)
Markuson, D. L. (A)
McGinnis, W. J. (A)
Miles, J. G. (M)
Muckenhirn, O. W. (M)
Museus, H. U. (A)
Naka, F. B. (A)
Ney, E. P. (A)
Olson, K. A. (A)
Phelps, B. (A)
Pree, W. G. (M)
Quist, W. G. (A)
Renk, B. J. (A)
Robb, G. (A)
Sabine, L. (A)
Sather, B. M. (A)
Schmitt, O. H. (SM)
Scholer, R. E. (A)
Schott, O. A. (M)
Schuck, O. H. (M)
Schulz, S. W. (A)
Shepherd, W. G. (A)
Sherman, J. M. (SM)
Smith, M. R. (A)
Stahmann, J. R. (A)
Stinger, H. J. (A)
Stone, N. T. (A)
Swendson, L. G. (M)
Thompson, P. (A)
Tidball, F. E. (M)
Tobin, R. D., Jr. (A)
Upton, A. P. (M)
Vandal, W. L., Jr. (A)
Vogel, V. H. (M)
Wakabayashi, G. J. (A)
Wasley, R. L. (A)
Winter, H. (M)
Wold, E. A. (M)

Moorhead
Rudy, E. W. (A)

Mountain Lake
Burns, G. D. (A)

Newport
Stief, F. W. (A)

New Prague
Robel, R. B. (A)

Northfield
Bergan, K. N. (A)
Jensen, M. C. (M)

Osseo
Abrahamsen, E. H. (A)

Red Wing
Jelatis, D. G. (A)
Lee, G. M. (A)

Renville
Francis, O. T. (VA)

Robbinsdale
Sultany, S. (A)

Rochester
Boland, R. K. (A)
Clarke, F. C. (M)
Herrick, J. F. (M)
Jones, R. E. (A)

Saint Cloud
Burda, A. J., Jr. (A)
Witschen, R. B. (A)

Saint Louis Park
Larson, H. G. (M)
Miller, C. B. (A)
Premack, J. (A)
Syrdal, R. R. (M)
Underhill, C. E. (A)

Saint Paul
Becklund, O. A. (M)
Boskoff, J. H. (A)
Christensen, A. O. (A)
Coil, N. B. (M)
Coombs, J. M. (A)
Craig, J. H. (A)
Daniels, H. L. (M)
Debel, C. A. (A)
Duncan, H. S. (M)
Effertz, C. H. (A)
Fehr, A. T. (A)
Field, B. W. (A)
Fricker, J. N. (M)
Gise, F. G., Jr. (A)
Goodell, J. D. (A)
Hardenbergh, G. A. (A)
Hauerwas, G. F. (A)
Hill, J. L. (A)
Jensen, W. (M)
Johnson, H. C. (A)
Kahnke, J. (A)
Kelsey, J. R. (A)
Klug, J. D. (A)
Lampert, L. F. (A)
Lund, G. W. (A)
MacKnight, K. I. (A)
Melius, F. G. (A)
Moe, W. J. (A)
Montgomery, B. E. (M)
Murray, D. A. (VA)
Newman, M. M. (A)
Rice, C. I. (M)
Shekels, H. D. (A)
Stewart, J. W. (A)
Stodolka, J. P. (A)
Varnum, W. B. (A)
Webber, L. E. (A)
Williams, D. G. (A)
Winget, W. F. (A)

Stillwater
Bashara, N. M. (A)

Virginia
Granros, G. J. (A)

Waseca
Hager, F. M., Jr. (A)
Johnson, E. F. (VA)
Kozan, F. J. (A)
Olander, L. W. (VA)

Wayzata
Cole, D. R. (A)
Johnson, L. E. (A)
Young, S. B. (VA)

West Saint Paul
Spong, D. C. (A)
Trimmer, J. P. (A)

MISSISSIPPI

Baldwyn
Peach, S. E. (A)

Bay Saint Louis
Rawls, H. F. (A)

Biloxi
Berger, M. (M)

Clarksdale
Blaquiere, B. E. (A)

Gloster
Brown, W. L. (A)

Greenville
Kittkeman, M. (A)

Greenwood
Johnson, H., Jr. (A)
Perkins, E. G. (A)
Soward, R. (M)

Gulfport
Ingling, T. M. (A)

Hattiesburg
Dreyfus, R. M. (A)

Jackson
Courtenay, J. A. (SM)

Laurel
Le Blanc, R. E. III (A)
Patrick, W. L. (A)

McComb
Sanders, R. L. (A)

Sherard
Ratliff, W. H., Jr. (A)

State College
Taylor, H. M., Jr. (A)

Yazoo City
Muirhead, L. R. (A)

MISSOURI

Affton
Winters, D. E. (A)

Brentwood
Anweiler, H. L. (A)
Chambers, R. M., Jr. (A)
Sullivan, A. D. (A)

Cape Girardeau
Hirsch, O. C. (M)
Koeppel, B. W. (A)
Leming, J. G. (A)

Clayton
Morrical, K. C. (SM)
Vencill, G. J. (A)

Columbia
Hensley, E. B. (A)
Lago, G. V. (A)
Lamb, J. F. (M)
Waidelich, D. L. (SM)
Wallis, C. M. (SM)
Woodruff, C. M. (A)

Ferguson
Rekart, A. F. (VA)

Glendale
Harris, H. H. (A)
Nickels, R. W. (A)
Malsbary, J. S. (M)
Rustemeyer, G. L. (A)

Grain Valley
Harmon, R. C. (A)

Independence
Barron, R. C. (A)
Farnsworth, B. W. (A)
Forristal, J. A. (A)
Hall, M. E., Jr. (A)
Jeffers, L. B., Sr. (A)
Kemper, A. L. (A)
Moler, A. R. (VA)

Jefferson City
Milam, J. C. (A)

Joplin
Harrison, A. A. (A)
Meador, R. E. (A)
Nickel, W. L. (A)
Pilant, R. H. (A)

Kansas City
Anderson, K. W. (SM)
Anderson, R. M. (A)
Babbit, E. B. (A)
Bain, D. (M)
Barker, F. L. (A)
Bergren, A. L. (SM)
Berry, F. M. (A)
Betros, L. A. (A)
Blair, J. N. (A)
Blanchard, H. R. (A)
Brubaker, R. J. (A)
Busse, D. E. (M)
Carnes, W. T., Jr. (SM)
Chamberlin, E. W. (A)
Chasteen, J. W., Jr. (A)
Clark, C. S. (A)
Cook, N. W. (A)
Curtis, C. V. (M)
DeBoard, E. B. (A)
Dillard, E. L. (VA)
Dunn, J. R. (A)
Earp, J. A. (M)
Easterday, M. R. (A)
Fernane, J. (A)
Foster, C. L. (M)
Fouts, A. L. (VA)
Francis, M. C. (A)
Frost, S. H. (A)
Gebhardt, P. B. (VA)
Gibbs, D. R. (A)
Goldenberg, H. E. (M)
Green, V. L. (A)
Heffelfinger, J. B. (SM)
Heister, C. F. (M)
Hieronymus, T. G. (A)
Hoyle, W. E. (A)
Hunt, J. M. (M)
Inderwiesen, F. H., Jr. (A)
Jarboe, R. A. (A)
Jarrard, J. C. (M)
Johnson, C. K. (A)
Jones, M. R. (VA)
Jones, T. L. (A)
Judkins, L. G. (A)
Keith, J. M. (A)
Kirkpatrick, C. H. (A)
Kramm, H. L. (A)
Lane, C. A., Jr. (A)
Lohr, L. A. (A)
Lutes, R. K. (M)
Manship, J. F. (A)
McCall, E. A. (A)
McDonnell, W. J. (VA)
McGinness, C. C. (A)
McKnight, W. J. (M)
Mead, R. S. (A)
Meador, B. M. (M)
Moore, H. H. (A)
Morse, L. H., Jr. (A)
Nicholson, T. (A)
O'Dell, D. L. (A)
Paledes, T. P. (M)
Peterson, R. A. (M)
Pfefer, B. L. (A)
Posler, L. S. (A)
Salzer, C. E. (VA)
Schilling, J. T. (VA)
Shall, H. N. (M)
Shirling, G. K. (M)
Sigvaldson, J. M. (M)
Simmons, C. O. (A)
Smith, Z. R. (A)
Spannuth, W. H. (M)
Swanson, R. E. (A)
Taylor, G. L. (SM)
Uhrich, W. J. (A)
Uhrig, R. B. (A)
Van Gundy, C. G. (VA)
Van Horn, J. H. (M)
White, R. N. (SM)
Whittle, O. W. (A)
Wilcox, J. V. (SM)
Williams, M. (A)
Wolfskill, R. F. (M)
Ziegler, G. E. (SM)

Kirkwood
Cloyd, L. W. (VA)
Martin, G. I. (SM)
Risk, J. E. (A)
Roberts, E. M., Jr. (A)
St. Vrain, W. E. (A)
Van Sickle, G. W. (A)

Lee's Summit
Mossman, J. R. (M)
Nauman, P. W. (A)

Liberty
Lovan, J. E. (A)

Longwood
Hieronymus, J. (A)

Maplewood
Binzel, M. S. (A)

Mission
Hoyt, W. S. (A)

Monett
Hamilton, G. P. (A)

Normandy
Volk, J. A. (VA)

North Kansas City
Bishop, W. T., Jr. (VA)
Budd, R. W. (M)
Kurth, H. H. (SM)
Lewis, W. R. (A)
Troeglen, K. (SM)
Turner, C. G. (A)

Overland
Taylor, J. J. (A)

Parkville
Culver, C. A. (SM)

Pattonville
Kilby, P. (A)

Perry
Davis, C. L. (SM)

Richmond
Basham, R. (A)

Richmond Heights
Bennett, R. M., Jr. (M)
Cummings, G. M. (M)
Ekblaw, W. E., Jr. (A)
Yarger, C. R. (A)

Robertson
Jones, C. W. (M)

Rockhill
Baker, S. E., Jr. (A)

Rolla
Frame, F. H. (VA)
Shapiro, L. (M)
Skitek, G. G. (A)

Saint Joseph
Gillespie, E. R. (A)
Kirby, R. C. (A)
Koch, J. W. (M)

Saint Louis
Anderson, A. R. (A)
Beller, E. H. (A)
Bemis, R. E. (A)
Bennetsen, W. J. (M)
Bitzer, R. J. (A)
Black, D. R. (A)
Brickler, J. B. (M)
Brent, L. L. (M)
Bubb, F. W., Jr. (A)
Calafati, S. S., Jr. (M)
Coe, R. L. (SM)
Detchemendy, J. A. (A)
Devereux, J. (A)
Fiedler, G. J. (SM)
Fillmore, F. A. (M)
Frazier, R. L. (A)
Groeteke, E. A. (VA)
Hannon, J. P. (M)
Harrison, C. E. (M)
Hicks, H. J. (M)
Hiestand, D. W. (A)
Hildenbrand, K. (M)
Hollander, G. L. (M)
Honnell, P. M. (SM)
Howard, T. E. (M)
Jablonsky, R. D. (A)
Justice, J. W. (A)
Klamm, C. F., Jr. (A)
Koehler, E. F. (A)
Lenkerd, J. P. (M)
Markow, E. W. (A)
Mayer, R. H. (A)
McDaniel, O. S. (SM)
Merry, J. M. P. (A)
Miller, B. B. (A)
Mollman, L. A. (M)
Moore, R. K. (A)
Motchan, H. L. (A)
Murty, E. H. (A)
O'Neil, D. H. C. (A)
Pendleton, J. R. (A)
Peters, C. E. (M)
Peterson, J. T. (A)
Pingree, S. J. (A)
Platts, G. F. (SM)
Potter, C. A., Jr. (A)
Richardson, R. P. (A)
Schaeperkoetter, L. C. (A)
Schwarz, C. J. (A)
Seabaugh, D. A. (A)
Shepard, W. D. (M)
Siepman, A. B. (A)
Sigman, H. M. (M)
Small, F. R. (M)
Speidel, F. X. (A)
Stephens, E. T. (A)
Stertmann, W. E. (A)
Thielen, H. H. (A)
Toeneboehn, C. C. (M)
Upton, L. (A)
Van Wambeck, S. H. (SM)
Vogel, E. H. (A)
Waelterman, E. H. (A)
Walton, G. A. (A)
Weiss, H. R. (A)
Wiese, A. H. (A)
Young, A. E. (M)
Zehr, N. J. (M)
Zurbriggen, J. H. (A)

Salisbury
Mott, O. B. (A)

Springfield
Bauer, F. (M)
Burns, L. V. (A)
Curry, W. F. (A)
Jones, J. W. (A)

Sullivan
Harman, D. G. (A)

Troy
Avery, W. B. (A)

University City
Glasgow, R. S. (SM)
Poritzky, S. B. (A)
Ruel, O. J. (A)

Vinita Park
Allmeyer, W. C. (A)

Warrensburg
Sweet, R. A. (A)

Webster Groves
Ceries, R. E. (A)
Harvey, H. (SM)

Weldon Springs
McCaffrey, F. K. (M)

MONTANA

Billings
Kiichli, J. A. (M)

Butte
Beardslee, C. E. (A)
McCourt, A. R. (A)

Great Falls
Lopuch, A. J. (A)
Parker, J. E. (VA)

Harlowton
Eden, E. E. (A)

Missoula
Taylor, A. S. (M)

NEBRASKA

Archer
Bonness, Q. L. (M)

Bellevue
Dorman, L. R. (A)

Broken Bow
Crawford, B. (A)

Fairbury
Weiler, G. (A)

Falls City
Lovick, E., Jr. (A)

Fremont
Dunbar, B. L. (A)

Kearney
Beshore, P. S. (VA)
Griffin, D. C. (A)

Lincoln
Bullock, M. W. (M)
Burden, B. C. (M)
Chamberlain, I. J. (A)
Flyr, J. G. (A)
Geis, L. (A)
Jensen, J. C. (SM)
Michal, L. V. (M)
Norris, F. W. (SM)
Rook, C. W. (M)
Wight, V. H. (A)
Winkler, C. W. (VA)

Miles City
Miner, R. D. (A)

Omaha
Becker, H W. (M)
Bennett, A. E. (A)
Curry, H. D. (A)
Flynn, G. (A)
Herold, J. L. (A)
Jett, C. O. (A)
Kolar, A. (A)
Kotera, W. J. (VA)
Noland, J. W. (A)

Pawnee City
Kerl, R. C. (M)

Plattsmouth
Geyer, J. H. (A)

Seward
Luebbe, L. A. (A)

NEVADA

Las Vegas
Partridge, P. N. (M)
Rosenkranz, R. J. (A)
Tomiyasu, K. (A)
Wiessmantel, F. A. (VA)

Reno
Perry, D. L. (A)
Sandorf, I. J. (SM)
Shearer, R. W. (A)

NEW HAMPSHIRE

Concord
Evans, C. B. (M)

Dover
Farrell, L. H. (A)

Durham
Hall, H. H. (VA)
Hamilton, K. E. (A)

Gilmanton
Kimball, E. W. (A)

Goffstown
Rust, W. F., Jr. (SM)

Hanover
Morgan, M. G. (A)
Seacord, D. F., Jr. (A)
Wilson, M. C. (A)
Wood, J. A., Jr. (SM)

Keene
Batchelder, E. F., Jr. (A)

Iaconia
Farrington, J. F. (F)

Manchester
Castor, A. H. (A)
Chandler, V. H. (VA)
Shedd, R. D. (A)

Milford
Romney, E. (A)

Portsmouth
Bernard, W. B. (SM)
Molla, J. J. (A)

NEW JERSEY

Alandale
Havstad, H. H. (VA)
Johnson, L. R. (A)
Robbins, R. L. (SM)
Walcott, H. R., Jr. (A)

Allenhurst
Lewis, H. M. (SM)

Andover
Ostlund, E. M. (SM)

Arlington
Bremer, F. V. (A)
Dunn, R. F. (M)
Kennedy, R. C. (M)
Savadelis, I. C. (A)
Wise, R. J. (SM)

Asbury Park
Albersheim, W. J. (A)
Belmonte, J. C. (A)
Bromley, J. E. (A)
Chappell, J. F. (A)
Colloff, I. (A)
Fox, J. (A)
Gorham, J. E. (M)
Hammond, A. L. (A)
Holtum, A. G., Jr. (A)
Jarema, E. D. (A)
Johnson, P. K. (A)
Klayton, M. H. (A)
Lipman, N. (A)
Lippel, B. (A)
Mackey, C. L. (A)
McCurdy, R. J., III, (A)
Merer, G. E. (M)
Rehm, W. L. (M)
Rosenberg, M. W. (A)
Rosenberg, S. (A)
Sarett, M. (A)
Schelleng, J. C. (F)
Stiber, S. (A)
Wagner, H. M. (SM)
Young, L. G. (VA)

Atlantic City
Di Giacinto, L. (A)
Pedersen, G. V. C. (VA)
Thron, B. K. (M)

Atlantic Highlands
Barreto, J. M. (A)
Barrett, L. C., Jr. (A)
Durrer, J. H. (A)
Keen, H. J. (A)
Mumford, W. W. (SM)
Petersen, P. B. (A)
Reinhart, A. G. (M)

Audubon
Bailey, R. E. (M)
Haynes, H. E. (M)
Kozanowski, H. N. (VA)
Smalts, F. W. (VA)
Stasz, C. E. (A)
Woll, H. J. (M)

Audubon Park
Marsh, D. R. (M)

Avenel
Felton, L. E. (M)

Avon-By-The-Sea
Puzio, P. S. (A)
Ullman, M. A. (A)

Basking Ridge
Fair, I. E. (VA)
Miller, S. E. (M)
Perkins, E. H. (SM)

Bay Head
Hurford, W. L. (VA)

Bayonne
Adams, J. V., Jr. (A)
Lundy, C. (SM)
Rosenthal, S. W. (A)
Sigel, D. (A)

Belle Mead
Dunn, J. E. (M)
Minks, F. A. (SM)

Belleville
Bernard, H. S. (M)
Cohen, N. L. (A)
Cohen, R. M. (M)
Gray, L. F. (M)
Kuykendall, J. H. (A)
Miller, H. G. (SM)
Sherman, V. W. (SM)
Wallace, F. C. (A)
Whittle, R. L. (A)

Belmar
Beane, S. M. (A)
Berman, H. (A)
Brenner, M. M. (A)
Gibbons, D. R. (VA)
Hiltner, E. B. (A)
Kampinsky, A. (A)
Maxson, J. F. (A)
Rothstein, J. (A)
Sussdorf, R. R. (M)
Wightman, E. R. (SM)
Wyckoff, P. H. (M)

Bergenfield
Chattopadhyaya, R. (A)

Claassen, F. S. (A)
Ewert, A. C. (M)
Musselman, H. (A)
Summerlin, W. O. (A)
Worster, M. C. (A)

Bernardsville
Hoffman, W. C. (A)
Pomeroy, A. F. (SM)
Wentz, J. F. (SM)

Blackwood
Swanson, M. A. (A)

Bloomfield
Atwood, H., Jr. (M)
Bachand, G. (A)
Baracket, A. J. (SM)
Beckman, C. (A)
Bishop, J. B. (SM)
Brown, P. F. (M)
Brubaker, P. M. (A)
Buck, R. F. (A)
Caldwell, J. J. (SM)
Chipp, R. D. (SM)
Coon, C. E. (VA)
Daubaras, E. J. (M)
De Rosa, L. A. (A)
De Ryder, H. (VA)
Gleason, C. H. (A)
Hayes, W. A. (M)
Hickstein, B. A. (A)
Hoffman, W. R. (VA)
Johnson, H. W. (SM)
Johnson, W. C. (A)
Kreer, J. G., Jr. (SM)
Lawton, B. E. (A)
Mitchell, C. D. (SM)
Moran, W. G. (A)
Myers, H. W. (M)
Nelson, R. E. (M)
Pike, D. E. (A)
Polkinghorn, F. A. (F)
Potter, C. R. (VA)
Quodomine, R. A. (A)
Rhodes, H. A. (A)
Stewart, N. H. (M)
Sweeney, F. C. (A)
Wakeman, R. P. (M)
Weichardt, H. H. (M)
White, R. A. (A)
Widell, E. G. (SM)

Bogota
Hastings, H. A. (A)
Montllor, J. A. (A)

Boonton
Anderson, N. J. (A)
Berlin, W. N. (A)
Borgstrom, H. P. M. (A)
Braun, C. G. (A)
Clark, T. H. (SM)
Cook, L. (VA)
Dlouhy, F. W. (M)
Drake, F. H. (SM)
Estler, L. K. (A)
Franks, C. J. (SM)
Gissler, F. E. (A)
Hill, D. M. (M)
Hull, L. M. (F)
Kromka, D. S. (A)
Leung, Y. L. (A)
March, P. S. (VA)
Minter, J. (VA)
Montcalm, S. R. (SM)
Paine, R. C. (SM)
Redington, J. H. (SM)
Richardson, A. G. (SM)
Urbach, K. (A)
Zayac, F. R. (A)

Bound Brook
Barber, W. H. (A)
Kieselbach, R. (A)
Lindstrom, A. J. (A)
McMillin, W. R. (A)

Bradley Beach
Blackwell, E. L. (A)
Brown, M. A. (A)
Cohen, P. (A)
Levy, S. J. (SM)
McAllister, A., Jr. (A)
Mitchell, D. (SM)

Bridgeton
Butterfield, W. S. (A)

Brookside
Jansen, J. J. (A)
Lindsay, M. H. A. (VA)

Caldwell
Frutchey, M. P., Jr. (A)
Gruenberg, E. L. (A)
Hotopp, A. H., Jr. (SM)
Hunter, W. C. (M)
McBrair, H. C. (A)
Meixell, O. S. (SM)
Nuner, J. F., Jr. (VA)
Shepard, R. H. (A)
Sutherlin, L. (SM)

Camden
Bencan, W. L. (A)
Berner, A. S. (A)
Bradshaw, G. V., Jr. (A)
Codish, S. (A)
Combellack, E. M. (M)
Crosby, R. (SM)
Cummings, J. J. (SM)
Dollscheck, C. W. (A)
Eaton, T. T. (A)
Gerber, P. D. (VA)
Harwan, E. (A)
Henry, E. A. (M)
Hucke, H. M. (SM)
Hunt, C. M. (A)
King, H. E. (A)
King, L. A. (SM)
Lauer, H. (A)
Lesley, A. M. (A)
Lewis, J. R. (A)
Maloff, I. G. (F)
Mavrogenis, A. (VA)
McGinnis, S. E. (A)
Orr, R. W. (VA)
Reiling, G. E. (A)
Rosenthal, D. (A)
Schnipper, A. (A)
Stansbury, M. L. (A)
Swierczak, P. C. (A)
Trachtenberg, R. (A)
Vilkomerson, B. S. (A)
Waltz, D. M. (M)

Carneys Point
Tipton, W. F. (M)

Carteret
Singer, C. (SM)

Cedar Grove
Weitmann, O. (SM)

Chatham
Baker, H. W., Jr. (M)
Bawden, H. G., (A)
Bezer, L. H. (A)
Bonner, A. L. (A)
Bostwick, A. L. (A)
Bryant, N. W. (SM)
Calbick, C. J. (A)
Cousins, V. M. (VA)
Dungan, M. R. (M)
Fay, C. E. (SM)
Felch, E. P. (SM)
Ferrell, E. B. (SM)
Frantz, D. R. (M)
Habich, F. L. (A)
Harrison, C. W. (A)
Hensel, W. G. (VA)
Houghton, E. W. (SM)
Kirkpatrick, W. E. (VA)
Klesse, W. R. (M)
Loman, G. T. (A)
Merrill, F. G. (A)
Peterson, A. C., Jr. (SM)
Petersen, L. C. (VA)
Powell, A. E. (A)
Radcliffe, F. E. (A)
Rose, R. H., II (A)
Rupp, O. R. (A)
Sproul, P. T. (SM)
Sweeny, C. P. (SM)
Tyler, E. M. (A)
Wintringham, W. T. (SM)

Chester
Pardee, S., Jr. (A)

Cliffside Park
Halbach, E. (A)

Clifton
Backer, C. M. (M)
Barna, W. W. (A)
Bentley, A. Y. (A)
Campbell, E. J. (A)
Carlson, O. E. (A)
Horvath, A. (M)
Koch, S. J. (A)
Pastor, J., Jr. (A)
Petrocelli, A. R. (A)
Retherford, R. C. (A)
Snadyc, A. M. (A)
Spector, M. (A)

Clifton-Allwood
Messerschmidt, W. T. (A)

Closter
Davis, R. H. (A)

Collingswood
Ackerman, M. J. (VA)
Andrews, D. R. (M)
Benware, R. T. (A)
Boerner, T. J. (SM)
Brotzman, E. S. (M)
Caplan, N. (M)
Clark, E. L. (VA)
Dutton, O. B. (A)
Ellis, I. M. (M)
Evans, L. L. (A)
Gluyas, T. M., Jr. (SM)
Goodrich, H. C., Jr. (A)
Haining, L. E. (A)
Howard, R. R. (A)
Jacobi, T. E. (M)
Konick, A. E. (A)
Lawrence, W. L. (VA)
Lingo, J. E. (VA)
MacSorley, O. L. (A)
Meisenheimer, R. L. (A)
Ohler, A. E. (A)
Palmquist, J. F. (SM)
Pettengill, G. W. (VA)
Post, D. B. (A)
Potter, E. H. (VA)
Roe, J. H. (A)
Selby, E. O. (VA)
Stocker, A. C. (SM)
Stupp, R. W. (VA)
Thomas, L. P. (A)
Turner, A. H. (VA)
Wald, S. (A)
Wilcox, R. C. (A)
Wolf, L. J. (VA)
Woodward, B. J. (VA)

Convent
Mraz, W. L. (A)
Ong, F. C. (SM)
Van Beuren, J. M. (A)

Cranbury
Applegate, H. E. (A)
Dodds, W. (SM)
Forgue, S. V. (M)
Morgan, J. M. (M)
Shankweiler, R. G. (VA)
Smith, J. P. (SM)

Cranford
Alger, P. B. (A)
Blackman, R. B. (A)
Buzalski, T. J. (VA)
Cornell, J. I. (SM)
Lakatos, E. (VA)
O'Neill, R. A., Jr. (VA)
Washburn, E. L. (A)

Deal
Hunt, L. E. (SM)
Rose, C. F. P. (SM)

Demarest
Lee, P. H. (A)

Denville
Backer, L. A. (VA)
Christensen, H. (M)
Clark, M. E. (A)
Eells, M. M. (SM)
Felker, J. H. (A)
Grim, E. M. (A)
Nebel, C. M. (A)
Peterman, W. G. (VA)
Van Duyne, J. P. (A)

Dover
Harris, J. R. (A)
Leighton, J. (M)
Widenor, M. D. (A)

Dumont
Apfel, G. J. (A)
Jarvis, J. (M)
Ogas, M. J. (A)
Spillner, H., Jr. (A)
Starr, E. W. (A)
Strain, M. (A)
Townsend, C. L. (A)

East Orange
Affelder, C. (A)
Aitkenhead, J. (A)
Akers, D. C. (A)
Anderson, A. B. (A)
Baker, G. H. (A)
Bemis, E. W. (M)
Bower, M. M. (M)
Bradford, D. C. (A)
Brigham, C. E. (SM)
Carlin, H. J. (M)
Cherry, S. J. (A)
Cobb, W. A. (M)
Crump, E. E. (M)
Davis, W. J. (A)
Deaton, C. H. (A)
De Lange, O. E. (A)
Dorris, R. C. (M)
Drazy, E. J. (A)
Dyer, J. H. (M)
Evans, P. H. (F)
Everett, L., Jr. (SM)
Fay, H. W. (A)
Feindel, A. (M)
Fellsenheld, R. A. (M)
Filmer, W. L. (VA)
Garrison, K. D. (M)
Gawler, H. C. (SM)
Gellings, J. G. (A)
Grandmont, P. E. (M)
Gray, F. (A)
Hayman, W. H. (A)
Headley, C. B. (A)
Hensell, R. L. (A)
Hiller, H. E. (SM)
Johnson, R. L. (M)
Kendall, B. W. (SM)
Knochel, W. J. (VA)
Koch, D. G. (A)
Laube, O. T. (VA)
Lawsine, L. (M)
Libby, L. L. (SM)
Lorber, R. P. (A)
Lowry, H. H. (SM)
Lund, N. (A)
MacAlpine, W. W. (SM)
McNall, J. W. (A)
Manley, J. M. (A)
Mehrbach, E. (M)
Meyers, S. T. (SM)
Miller, G. A. (VA)
Milne, D. D. (A)
Mitchell, J. K (SM)
Morrow, H. W. (A)
Mulligan, J. H., Jr. (M)
Nexon, V. J. (A)
Nimmcke, F. E. (SM)
Nordlin, H. G. (A)
Patterson, T. A. (A)
Paulsen, R. C. (A)
Peet, E. C. (M)
Rice, S. O. (SM)
Rose, G. M., Jr. (SM)
Sadowsky, J. (VA)
Sandretto, P. C. (SM)
Schmidt, W. C. (A)
Scullin, C. H. (A)
Shackelford, C. L. (A)
Short, W. P. (SM)
Skene, A. A. (SM)
Smith, H. H. (M)
Spencer, M. C. (VA)
Spies, D. (A)
Stempel, W.M. (VA)
Stiles, M. G. (A)
Stultz, L. R. (A)
Van Iderstine, A. (A)
Weber, L. A. (A)
Whittaker, E. S. (A)
Wilson, A. L. (A)
Wissolick, R. A. (A)

East Paterson
Abbenhouse, R. P. (M)
Bruno, D. (A)
Opie, A. (A)

Eatontown
Albright, A. R. G. (M)
Alfie, C. L. (A)
Bady, I. (A)
Blutman, E. (A)
Budenkaye, A. C. (M)
Butler, H. (M)
Castellini, N. R. (A)
Daniels, F. B. (A)
Davis, A. (M)
Day, J. L. (A)
Di Perry, J. (A)
Eannarino, J. M. (A)
Elterman, L. (A)
Fox, A. G. (SM)
Frohlich, A. J. (A)
Gabriel, E. Z. (A)
Garoff, K. (A)
Giacoletto, L. J. (M)
Haddock, J. W. (A)
Jaeger, M. (A)
Kenigson, R. R. (M)
Maloney, T. E. (M)
Morris, M. M. (SM)
Occhiogrosso, T. (A)
Osmundsen, G. A. (A)
Porrazzo, R. J. (A)
Ribe, M. L. (A)
Schlegelmilch, R. O. (M)
Seifert, F. F. (M)
Sharki, P. (M)
Skrypski, E. J. (A)
Thompson, J. M. (M)
Townsley, F. W. (VA)
West, K. A. (M)
Zurcher, L. A. (A)

Edgewater
Fleming, J. W. (A)

Elberon
Betts, P. H. (SM)
Dale, G. V. (VA)
Goodall, W. M. (SM)
Kerwein, A. E. (SM)
Newman, P. (M)
Owens, H. L. (M)
Schafer, J. P. (SM)
Silva, A. A. (M)
Woodworth, J. D. (A)

Elizabeth
Brick, F. R., Jr. (SM)
Brock, J. E. (A)
Brook, J. E. (A)
Burke, F. T. (A)
Caulfield, J. T. (A)
Gryp, E. S. (A)
Harkins, P. B. (A)
Kahant, C. G. (A)
Lewis, G. (SM)
Walsh, L. (VA)
Wilner, G. (A)
Wilner, J. T. (M)

Englewood
Colman, L. (A)
Eayrs, H. A. (A)
Guy, R. F. (F)
Hughes, K. E. (A)
Lieben, S. B. (M)
Marshall, J. R. (A)
McElroy, G. E. (A)
Miller, E. S. G. (VA)
Quarles, O. A. (SM)
Saliba, G. J. (SM)
Thomas, E. R. (VA)

Englewood Cliffs
Savory, W. A. (M)

Erlton
Lindenberg, E. C. (A)
Masters, R. W. (A)
Mechler, E. A. (M)
More, C. C. (VA)
Pratt, D. (VA)
Price, J. F. (M)

Fair Haven
Bower, A. E. (SM)
Crawford, A. B. (SM)
Hessel, J. (VA)
Ohl, R. S. (SM)
Priebe, F. K. (M)
Scarr, H. F. (SM)
Schlicher, K. G. (A)
Sharfless, W. M. (SM)
Smith, P. H. (SM)
Tyrrell, W. A. (M)
Van Deusen, G. L. (SM)

Fair Lawn
Adams, E. W., Jr. (A)
Baash, H. C. (M)
Estes, C. L. (A)
Hill, E. N. (VA)
McMullen, F. C. (VA)
Rissmiller, A. D., Jr. (A)

Fanwood
Anderson, F. B. (M)
Bollman, H. H. (SM)
Jordan, H. G. (A)
Kemp, T. H. (A)
Mehring, J. S. (A)
Rogers, D. H. (A)
Sykes, R. A. (SM)
Willard, G. W. (VA)
Windhorst, L. H. (A)
Wise, W. H. (SM)

Far Hills
Trent, R. L. (M)

Florham Park
Thatcher, W. H. (M)

Fort Lee
Davies, R. J., Jr. (A)
Hey, H. C. (A)

Fort Monmouth
Beasley, W. A. (A)
Cortner, H. M. (A)
Hamme, R. J. (A)
Lipp, J. P. (A)
Lyman, R. P. (SM)

Freehold
Bastian, C. W. (A)
Frank, E., Sr. (A)
Meadow, S. (M)

Garfield
Di Stadio, D. (A)

Gillette
Dietze, E. (VA)
Kannenberg, W. F. (SM)
Rystedt, T. (M)

Glassboro
Sweetman, C. E. (A)

Snyder, R. L. (VA)
Snyder, R. L., Jr. (M)

Glen Ridge
Baldwin, M. W., Jr. (F)
Dart, H. F. (SM)
Hall, R. E. (VA)
Hegeman, A. S., Jr. (A)
Hegeman, B. L. (A)
Hoffman, R. B. (SM)
Honaman, R. K. (SM)
Hopgood, R. C. (A)
Jeter, G. G. (A)
Laport, E. A. (SM)
Long, M. B. (VA)
Olsen, E. U. (VA)
Reveal, P. A. (M)
Schenck, A. K. (M)
Terry, C. B. (VA)

Glen Rock
Clark, L. E. (VA)
Hagmann, N. (VA)
Kandoian, A. G. (SM)
Ringer, R. L., Jr. (M)
Stallard, R. L. (A)
Thayer, G. N. (SM)
Vehling, R. H. (VA)

Gloucester
May, A. J. (A)

Great Notch
Holtz, R. F. (A)

Green Village
Hammell, R. (A)

Guttenberg
Pramshefer, T. W. (VA)

Hackensack
Chaffee, J. G. (SM)
Cramer, R. A. (A)
McKenzie, A. A. (M)
Morris, C. M. (M)
Robertson, C. V. (M)
Siganowick, J. (A)
Volger, W. A. (A)

Hackettstown
Ebersol, E. T., Jr. (M)
Mathewson, E. P., Jr. (A)

Haddonfield
Achenbach, J. C. (A)
Ayres, J. J. (M)
Beers, G. L. (F)
Brandt, M. M. (M)
Brown, H. W., Jr. (A)
Chittick, K. A. (A)
Cole, D. D. (SM)
Coleman, J. B. (F)
Conron, W. H. (SM)
Cunningham, O. B. (SM)
Curtiss, A. N. (SM)
Dyson, H. R. (VA)
Eberhard, E. (A)
Fricke, R. H. (A)
Fried, J. A. (A)
Gehman, J. B. (M)
Gerry, E. F. (A)
Gunther, C. A. (A)
Harris, W. A. (A)
Hoffman, W. H. (VA)
Hubbard, B. L. (VA)
Johnson, E. O. (VA)
Joyner, A. A. (VA)
Leigh, J. S. (A)
Love, J. E. (VA)
Mathwich, H. R. (A)
McGaughey, P. C. (VA)
Mills, C. A., Jr. (A)
Parker, J. R. (A)
Price, W. E. (A)
Reeber, H. E. (VA)
Renhard, J. A. (VA)
Sands, W. F. (SM)
Sarazen, E. P. (A)
Schrader, H. J. (SM)
Starner, C. J. (A)
Stone, F. B. (VA)
Sutherland, E. F. (A)
Terrell, J. A. (VA)
Thomas, H. E. (VA)
Trouant, V. E. (SM)
Welsh, R. R. (SM)
Welsher, C. E. (VA)
Wheeler, B. F. (M)
Widmann, F. W. (A)

Haddon Heights
Armstrong, C. W. (A)
Borzi, B. S. (A)
Darnell, W. E. (A)
Meadows, F. D. (A)
Meyer, J. V. (A)
Mittman, E. E. (A)
Roys, H. E. (SM)
Stanko, E. (VA)
Wolf, L. (A)

Hamilton Square
Reed, R. D. (A)

Harrington Park
Amend, A., Jr. (VA)

Harrison
Bash, F. E. (SM)
Bitinas, J. (A)
Grayson, E. L. (M),
Lederer, E. A. (SM)

Hasbrouck Heights
Beauchemin, A. K. (A)
Brodhun, C. G. (A)
Cimorelli, J. T. (SM)
Davies, H. (M)
Franklin, L. W. (SM)
Green, N. H. (A)
Potts, L. T. (A)
Weiner, M. J. (VA)

Haworth
Osborn, P. H. (VA)

Hawthorne
Petry, C. B. (A)
Soteriou, C. J. (A)

Highland Park
Aird, A. W. (VA)
Potter, J. L. (SM)
Quaranta, S. L. (M)

Highlands
Rohrle, T. A. (A)

Hightstown
Heagy, M. S. (M)
Wendt, K. R. (SM)

Hoboken
Beck, R. J. (A)
Gannett, E. K. (A)
Goodfriend, L. S. (A)
Neitzert, C. (A)
Webb, R. H. (A)

Hohokus
Freezee, W. D. (A)
Lamb, H. A. (A)
Markus, J. (M)

Holmdel
Englund, C. R. (F)

Hopewell
Braden, R. A. (VA)

Hudson Heights
Hughes, H. K. (M)

Interlaken
Hunkins, H. R. (VA)

Irvington
Balashek, S. (A)
Brown, J. (A)
Jordan, C. J. (A)
Krasnican, M. J. (A)
Littell, J. G. (A)
Mommo, E. J. (VA)
Rider, B. (A)
Strahlman, R. H. (A)
Wilewski, H. M. (A)
Zaepfel, C. G. (A)

Jersey City
Alexovits, A. A. (A)
Balter, L. (M)
Cohen, N. L. (A)
Collins, V. R. (A)
Czepyha, F. A. J. (A)
Dabrowski, H. L. (A)
Dick, R. T. (VA)
Genser, A. (A)
Heiser, W. H. (A)
Howell, W. J. (SM)
Long, F. H. (A)
Nugent, J. T., Jr. (A)
Potocki, J. A. (A)
Putt, D. R. (A)
Sielski, A. T. (A)
Smith, W. M. (VA)
Weiss, S. I. (SM)
Wormcke, W. (M)

Kearny
Craig, J. F. (A)
Crawford, D. J. (A)
Mazzola, J. R. (A)
McCormick, J. D. (A)
Vannote, W. M. (A)

Keyport
Bernard, J. L., Jr. (VA)
Hindin, A. (A)

Kingston
Herold, E. W. (SM)
Updike, W. E. (A)

Lake Hiawatha
Bremer, H. A. (VA)
Gilbert, E. A. (M)

Lakewood
Buffa, A. J. (A)

Landing
Grissler, H. W. (M)

Laurelton
Vorwerk, F. A. (A)

Lawrenceville
Fernsler, G. L. (SM)
Kihn, H. (SM)

Leonia
Aldrich, R. W. (A)
Biosca, L. F. (VA)
Burnell, S. (A)
Dietsch, C. G. (VA)
Hogan, A. S. (A)
Sargeant, C. E. (VA)
Schubert, H. C. (A)

Lenola
Swift, H. G. (M)

Liberty Corner
Hibbert, J. J. (A)

Lincoln Park
Bennett, H. H. (SM)
Keefe, O. A. (A)
Hudack, J. M. (SM)

Linden
Gspann, C. J. (A)
Hold, H. W. (A)
Mao, Y. A. (M)
Pincus, L. (A)
Riley, G. B. (A)

Little Falls
Budelman, F. T. (A)
Smith, D. H. (A)
Talamini, A., Jr. (A)

Little Silver
Brunett, G. E. (A)
Craig, L. H. (A)
Harrison, D. J. H. (A)
Jansky, K. G. (F)
Jensen, A. M. (A)
Kelly, R. L. (SM)
Lewis, W. D. (A)
Lowry, L. R. (SM)
Morf, F. P. (SM)
Poteet, D. P. (VA)
Seaton, S. L. (SM)
Tyack, L. C. (SM)

Livingston
Bareiss, M. (SM)
Mennie, J. H. (M)
Ports, E. G. (SM)
Schenck, L. (A)
Sherman, C. M. (A)
Wright, G. S. (A)

Locust
Massell, E. (A)

Lodi
Brown, C. R. (A)

Long Branch
Bania, S. E. (A)
Beizer, H. H. (M)
Bedrosian, S. D. (A)
Bennett, H. S. (SM)
Bower, G. G. (M)
Bracken, J. R. (A)
Brody, H. B. (A)
Brooks, P. J. (A)
Burkhard, H. F. (A)
Chernow, M. (M)
Clark, W. R. (M)
Cole, R. I. (SM)
Coleman, A. H. (A)
Davis, H. (A)
De Vore, C. (A)
Ducore, H. (M)
Fast, S. (A)
Fishbein, S. B. (A)
Goldberg, W. P. (M)
Gould, W. B., III (VA)
Harris, H. (VA)
Havel, J. M. (A)
Held, W. J. (A)
Hines, W. S. (A)
Holt, G. A. (M)
Inslerman, H. E. (VA)
Kavanaugh, E. V. (A)
Kazan, B. (A)
King, H. D. (A)
Kirshner, D. R. (A)
Krevsky, S. (M)
Lader, L. J. (M)
Levine, S. (M)
Malkin, S. (VA)
Marks, W. S., Jr. (SM)
Moskowitz, F. (M)
Norris, S. F. (A)
Pomerantz, M. (A)
Repella, N. (A)
Riehs, R. C. (SM)
Ro enzweig, H. (A)
Scully, J. F. (A)
Sheftelman, E. H. (A)
Sherman, H. (M)
Trauben, W. (A)
Vieweger, A. L. (A)
Vogelman, J. H. (M)
Waite, A. H., Jr. (A)
Wolfskill, J. R. (M)
Zahl, H. A. (SM)

Lyndhurst
Berg, L. W. (A)
Friberg, V. (A)
Gaspierik, M. S. (A)
Gilmore, A. C., Jr. (A)
Gilmore, J. P. (A)
Parry, F. M. (A)
Robinson, G. D. (A)
Sichak, W. (M)

Madison
Abraham, L. G. (SM)
Barney, H. L. (SM)
Bonanno, J. L. (VA)
Carter, H. T. (M)
Clark, O. (A)
D'Heedene, A. R. (SM)
Elmendorf, C. H. (A)
Fisher, H. A. (A)
Hammann, P. L. (SM)
Holmes, D. B. (A)
Howard, E. J. (SM)
Kammerer, F. W. (VA)
Kersta, L. G. (SM)
Livera, A. L. (M)
McRae, J. W. (F)
Morrison, L. W. (VA)
Moster, C. R. (A)
Phelps, W. A. (VA)
Phillips, W. E., Jr. (M)
Roetken, A. A. (SM)
Ruckelshaus, J. G. (SM)
Skellett, A. M. (M)
Shepard, F. H., Jr. (A)
Smith, J. W. (SM)
Stucky, J. B., Jr. (VA)
Thomas, B. J. (M)

Mahwah
De Vereux, J. G. F. (A)

Manasquan
Cline, D. E. (A)
Skirrow, J. F. (SM)

Manasquan Beach
Baganz, A. (A)

Maple Shade
Westcott, H. H. (A)

Maplewood
Almquist, M. L. (A)
Bailey, B. (A)
Baulch, E. L. (A)
Bosshart, R. F. (A)
Bown, R. (F)
Carpenter, L. B. (A)
Clark, A. B. (SM)
Clark, T. C. (M)
Cunningham, F. W. (SM)
Currier, S. E. (M)
Fishman, S. (SM)
Fox, J. P. (A)
Friis, R. W. (SM).
Hazeltine, A. (F)
Hogencamp, H. C. (SM)
Humphrey, H. C. (VA)
Johnson, J. B. (SM)
Lewi , R. F. (VA)
Mathes, R. C. (SM)
Milnor, J. W. (SM)
Oswald, A. A. (F)
Prager, H. J. (A)
Prosser, T. C. (A)
Strieby, M. E. (SM)
Tinus, W. C. (SM)
Vance, H. C. (SM)
Whittemore, L. E. (F)
Wilson, W. E. (A)
Wolke, R. K. (A)
Youngstrom, N. C. (VA)

Marlton
Koch, W. R. (VA)

Matawan
Guggi, W. B. (A)
Leach, H. B. (VA)
Oster, F. J. (A)
Ronson, H. T. (A)
Simpson, A. D. (A)

Maywood
Coggeshall, I. S. (F)
Couper, T. B., Jr. (A)
Fichil, R. R. (A)
Koechel, W. F. (VA)
Phelan, T. H. (SM)
Seibert, J. L. (VA)
Warsher, A. (M)
Wysocki, K. (M)

Medford
Anderson, P. A. (SM)

Medford Lakes
Kentner, C. D. (VA)

Mendham
Martin, J. F. (A)

Merchantville
Buder, S. H. (A)
Darling, W. (A)
Eiselein, J. E. (SM)
Hopkins, A. R. (SM)
Korman, N. I. (SM)
Lappin, L. S. (VA)
McKinney, R. S. (VA)
Morlock, W. J. (SM)
Oman, N. J. (VA)
Pan, W. Y. (SM)
Paschon, H. E. (VA)
Patterson, E. B. (SM)
Petry, G. F. (VA)
Sanborn, J. W. (VA)
Staton, M. G. (M)
Story, T. H. (A)
Thompson, L. E. (SM)
Washburn, E. M. (VA)
Young, J. E. (VA)

Metedeconk
Fox, N. S. (M)

Metuchen
Hunter, P. B. (SM)
Schiffmayer, G. F. (M)

Middletown
Koch, W. E. (SM)
Reynolds, G. E., Jr. (A)

Milbrook
Coram, R. E. (SM)

Millburn
Freeman, R. H. (A)
Green, E. I. (SM)
Haines, A. B. (A)
Hanchett, G. D., Jr. (SM)
Kauzman, A. P. (SM)
Leef, G. R. (A)
Marks, R. L. (M)
Morris, R. M. (SM)
Nelson, P. H. (A)
Newhouse, R. C. (SM)
Newsteder, L. (A)
Pierce, J. R. (SM)
Schaeffer, M. J. (A)
Schafer, E. W. (SM)
Stansel, F. R. (SM)

Millington
Cutler, C. C. (A)
Reitz, L. P., Jr. (A)

Millville
Ireland, C. J. (A)
Lavery, H. J. (VA)

Montclair
Baker, C. I. (SM)
Charton, P. (A)
Cone, J. H. (M)
Fulmer, N. C. (A)
Fulton, O. H. (M)
Gage, W. M. (A)
Gilbert, R. W. (M)
Himmel, L. (A)
Hooven, M. D. (VA)
Kauffman, C. W. (A)
Kellerman, K. F. (SM)
Lane, F. A. (VA)
Leighton, H. W. (A)
MacKenzie, N. F. (M)
Mouromtseff, I. E. (F)
Muller, C. R. (A)
Okress, E. C. (SM)
Sayer, W. H. (A)
Smith, E. L., Jr. (A)
Sprague, V. G. (VA)
Steinhauser, H. B. (M)
Swenson, W. J. (A)
Wheeler, C. M. (SM)
Wooldridge, A. C. (VA)

Montville
Rathjen, P. (A)

Moorestown
Bailey, L. W. (A)
Baker, H. F. (A)
Ballentine, E. C. (SM)
Batsel, M. C. (F)
Bucher, T. T. N. (A)
Duszak, H. (M)
Gillespie, H. C. (A)
Graham, M. L. (M)
Kaufman, I. (A)
Poch, W. J. (VA)
Rettenmeyer, F. X. (F)
Schmit, D. F. (SM)
Stewart, W. E. (SM)
Sutinen, C. P. (M)
Tesch, W. L. (SM)
Wigington, L. M. (A)

Morganville
LaVoie, S. D. (A)

Morris Plains
Engstrom, O. D. (SM)
Garblink, A. M. (A)
Geils, J. W. (M)
Goss, F. A., Jr. (A)
Klyce, B. (A)
McWham, B. (A)
Mueller, G. J. (SM)
Pentico, G. W. A. (M)
Petrich, L. G. (A)
Wiener, F. M. (SM)
Younker, E. L. (A)

Morristown
Cook, J. H. (VA)
Cushing, P. (A)
De Motte, F. E. (A)
Gillson, M. H. (SM)
Graef, R. P. (VA)
Herbst, P. J. (SM)
Hough, R. R. (SM)
Jacobs, O. B. (A)
Johnson, G. D. (A)
Kellogg, W. M. (SM)
Leoser, T. S. (SM)
Mattingly, R. L. (M)
Miessner, B. F. (F)
Montfort, L. R. (A)
Morrison, H. (SM)
Olmstead, N. C. (SM)
Peery, W. E. (VA)
Poole, R. E. J. (SM)
Potter, R. K. (F)
Rogers, R. (A)
Slade, B. (VA)
Starrett, J. S. (SM)
Straube, H. M. (A)
Thayer, P. H., Jr. (M)
Whaley, H. R. (A)

Mountain Lakes
Barstow, J. M. (SM)
Black, K. C. (SM)
Black, W. L. (SM)
Campbell, M. E. (M)
Downsbrough, G. A. (A)
Flannagan, C. (SM)
Ford, G. T. (A)
Gannett, D. K. (SM)
Houck, H. W. (SM)
King, P. B., Jr. (VA)
Krist, H. K. (SM)
Loughlin, W. D. (F)
McCouch, J. P. (A)
Nelson, E. L. (F)
Nordstrom, B. H. (SM)
Noyes, A., Jr. (SM)
Osterland, E. H. (VA)
Parkes, A. W., Jr. (VA)
Tyzzer, H. J. (SM)
Webster, F. D. (SM)
Wenk, H. A. (M)
Wilson, J. R. (SM)

Mountainside
Anderson, A. E. (M)
Grieser, T. J. (M)
Ingalls, D. (A)
Kniazuk, M. (A)
Sears, P. R. (M)
Shackell, S. M. (A)

Mountain View
Dilatush, E. (A)
Lathrop, L. L. (A)

Mount Arlington
Johnson, J. R. (M)

Mount Ephraim
Ehret, R. J. (M)
Seideman, I. M. (A)
Taylor, J. M. (M)

Mount Holly
Million, J. W., Jr. (SM)

Mount Tabor
Ruggles, D. M. (M)

Murray Hill
Goodale, W. D., Jr. (A)
Hartley, R. V. L. (F)
Maxfield, J. P. (SM)

Neptune
Ackerman, J. C. (M)
Armstrong, R. W. (VA)
Danko, S. F. (M)
Dickson, J. F. (M)
Evers, J. T. (VA)
Frevert, A. W. (M)
Lonnie, W. P. (A)
McConnell, I. R. (A)
Stodola, E. K. (SM)
Yamins, H. G. (M)

Neptune City
Huber, W. A. (M)
Schiff, W. J. (A)
Smith, H. A. P. (A)
Todd, W. (M)

Neshanic
Kuthe, H. K. (VA)
Morton, J. A. (A)

Netcong
Reichard, W. C. (VA)

Newark
Acosta, F. B. (A)
Bremer, F. V. (A)
Brettell, G. A., Jr. (A)
Cohen, S. (SM)
Cohen, C. L. (A)
Cunniff, T. W. (M)
Denney, J. M. (A)
Dorfman, J. (M)
Dougherty, R. G. (M)
Engel, J. S. (A)
Goodwin, W. N., Jr. (SM)
Haeseler, P. R. (A)
Halligan, C. W. (A)
Henry, T. J. (SM)
Hill, A. L. (A)
Hoagland, K. A. (A)
Horle, L. C. F. (F)
Ivey, H. F. (M)
Klein, M. (A)
Koch, J. S. (A)
Koppelon, R. (A)
Kups, E. F. (A)
Lamb, F. X. (VA)
Lassman, S. (A)
Lawrence, N. S. (A)
Meier, W. L. (VA)
Muller, F. A. (A)
Murphy, G. (A)
Pierce, C. T. (A)
Ranger, R. H. (F)
Thacker, W. E. (A)
Tuck, M. (A)
Tucker, W. (A)
Wallenstein, J. P. (A)
Watts, J. (A)
Wickersham, W. H. (A)
Wishneski, F. G. (A)
Young, R. G. (A)

New Brunswick
Fich, S. (A)
Rosenthal, L. (A)
Weidner, R. T. (A)
Williams, R. L. (A)

Newfield
Zakowski, L. F. (A)

New Providence
Borden, C. C., Sr. (M)
Ferrar, R. C. (SM)
Mohr, M. E. (M)
Schimpf, L. G. (SM)
Thomas, G. B., Jr. (SM)

North Arlington
Amos, B. (M)
Dewar, W. (A)
Fischer, L. O. (VA)
Gewirtz, H. (A)
Spooner, L. I. (A)

North Bergen
Rubin, L. (A)
Smith, F. C. (A)

North Hackensack
Hammerich, H. A. (A)

North Haledon
Fouchaux, J. E. (A)

North Long Branch
Harris, W. E. (M)
Turner, R. R. (M)

North Plainfield
Bremmer, A. J. (M)
Deeley, P. M. (SM)
Holi, F. (A)
Mandler, E. S. (A)
Riker, M. (A)
Snyder, C. L. (A)
Warren, C. W. (A)

Norwood
Vieth, W. G. (A)

Nutley
Alexander, B. (A)
Anderson, W. A. (A)
Bondy, J. O. (A)
Bucher, F. X. (A)
Burroughs, G. (VA)
Clavier, A. (F)
Davis, R. C. (A)
De Vany, B. V. (A)
Dishal, M. (SM)
Green, A. (A)
Hamilton, G. E. (A)
Hannell, F. D. (A)
Heacock, D. P. (A)
Jones, M. A. (A)
Kilroy, J. J. (M)
Lundburg, F. J. (A)
Marchese, T. J. (A)
Marsh, C. O., Jr. (A)
Mautner, L. (SM)
O'Brien, A. F. (A)
Polyzou, J. (A)
Pratt, J. W., Jr. (A)
Rutherford, R. E. (A)
Shadowitz, A. (A)
Shapiro, O. (A)
Smith, N. R. (SM)
Smullin, L. D. (A)
Vanek, L. J. (VA)
Voigt, G. (A)
Warriner, B., IV (M)
Wilson, A. K., Jr. (SM)
Young, N. H. (SM)

Oakhurst
Bennison, G. K. (A)
Schlaack, M. F. (SM)

Oaklyn
Arsem, A. D. (A)
Baker, L. E. (A)
Beleskas, S. M. (A)
Crawford, R. D. (A)
Fiet, O. (A)
Greenleaf, F. D. (A)
Harris, W. B. (A)
Scheldorf, R. D. (VA)
Touger, M. L. (A)
Walter, J. C. (SM)

Ocean Grove
Brooks, H. B. (A)

Oceanport
Schnabolk, H. L. (A)

Oradell
Brackett, H. H. (VA)
Schwartz, H. C. (A)
Yeutter, C. S. (A)

Orange
Colpitts, E. H. (F)
Cozzens, C. C. (A)
Dalman, C. (A)
Drosback, E. A. (A)
Geiges, K. S. (A)
Hardwick, A. H. (SM)
Jenkins, H. C. (M)
MacGregor, R. R. (A)
Martin, D. K. (SM)
Milner, C. M. (A)
Salles, J. (A)
Shackelford, B. E. (F)
Sheppard, M. H. (A)
Suydam, C. H. (M)
Volz, F. E. (A)
Washburn, S. H. (A)

Oxford
Bragg, H. E. (M)

Packanack Lake
Algor, M. M. (A)
Brown, P. F. (M)
Knoop, W. A., Jr. (A)
Wixson, F. C. (A)

Palisade
Andrews, E. (A)
Copper, F. K. (A)
Schnoll, N. (A)

Palisades Park
Jean, R. P. (VA)
Levine, O. W. (A)

Paramus
Deiss, E. W. (A)

Passaic
Barlow, W. A. (A)
Capen, H. N. (A)
Cramer, L. F. (A)
Faust, W. E. (A)
Fockler, W. G. (A)
Gricher, F. A. (A)
Kihn, A. (A)
Librizzi, P. N. (M)
Mihalik, J. J. (A)
Maron, M. (A)
Rollman, R. F. (M)
Ruiter, J. H., Jr. (M)
Sokasits, F. M. (A)
Zajac, C. (A)

Paterson
Butterworth, J. W. (A)
Conti, C. (A)
Frank-Jones, G. (A)
Hannah, W. M. (A)
Lome, J. B. (A)
Lucas, E. F. (A)
Osherow, S. A. (A)
Pagonis, G. G. (A)
Petruska, P. C. (A)
Van Haste, W. (M)

Pennington
Krulikoski, S. J., Jr. (A)

Pennsauken
Bauer, J. A. (A)
Gihring, H. E. (VA)
Quinby, G. F. (A)
Solomon, S. (A)

Pequannock
Bodle, D. W. (A)

Perth Amboy
Garretson, T. A. (M)
Milwitt, W. (A)

Plainfield
Bomberger, D. C. (VA)
Case, H. M. (VA)
Cowperthwait, W. L., Jr. (M)
Coxhead, H. B. (SM)
Cumming, K. N. (SM)
Custer, C. J. (VA)
Edison, J. O. (SM)
Gossland, J. K. (A)
McDermott, S. G. (M)
Miller, R. A. (VA)
O'Connor, J. T. (A)
Saunders, H. M. (VA)
Siegelin, C. O. (SM)
Swain, W. P. (A)
Williams, W. M. (M)

Pompton Plains
Anthony, R. L. (A)
Ware, P. (SM)

Preakness
Curry, R. O. L. (M)

Princeton
Allen, H. C. (VA)
Artzt, M. (VA)
Baker, G. M. K. (M)
Bartman, F. L. (M)
Barton, L. E. (SM)
Bedford, A. V. (SM)
Bliss, W. H. (SM)
Brown, G. H. (F)
Burnside, D. G. (SM)
Burrill, C. M. (SM)
Burns, L. L., Jr. (A)
Carlson, W. L. (SM)
Chandler, C. H. (M)
Chandler, H. M., Jr. (M)
Creager, F. L. (VA)
Crouch, G. E., Jr. (M)
Cuccia, C. L. (A)
Day, J. H. (A)
De Vore, H. B. (SM)
Dickey, E. T. (SM)
Dodge, S. W. (SM)
Donal, J. S., Jr. (SM)
Donley, H. L. (SM)
Engstrom, E. W. (F)
Epstein, D. W. (SM)
Epstein, J. (SM)
Flory, L. E. (SM)
Friend, A. W. (SM)
Hackley, R. A. (A)
Hamilton, D. R. (SM)
Harrison, A. E. (SM)
Hart, H. C. (M)
Harvey, R. L. (SM)
Hegyi, I. J. (M)
Herkart, P. G. (M)
Hershberger, W. D. (SM)
Holmes, R. S. (SM)
Hoyler, C. N. (SM)
Jenny, D. A. (A)
Jensen, A. S. (M)
Johnson, H. (SM)
Johnson, W. C. (SM)
Jolliffe, C. B. (F)
Karns, M. E. (VA)
Keizer, E. O. (M)
Kell, R. D. (F)
Kurshan, J. (M)
Landon, V. D. (SM)
Law, H. B. (SM)
Law, R. R. (SM)
Linder, E. G. (A)
Luck, D. G. C. (M)
Lund, C. O. (A)
Martinelli, C. C. (SM)
Mather, N. W. (M)
Mesner, M. H. (A)
Mihelyi, M. (A)
Mitchell, L. V. (M)
Morrison, W. C. (A)
Morton, G. A. (SM)
Mueller, C. W. (SM)
Nergaard, L. S. (SM)
Neumann, A. J. (M)
Nicoll, F. H. (SM)
Norman, F. H. (A)
North, D. O. (F)
Olson, H. F. (VA)
Olyphant, M., Jr. (A)
Pande, A. (SM)
Pennie, D. F. (M)
Pensak, L. (SM)
Peterson, D. W. (A)
Pike, W. S. (M)
Pomerene, J. H. (M)
Rajchman, J. A. (SM)
Raymond, C. A. (A)
Richey, J. L. (SM)
Roberts, W. V. B. (F)
Robinson, J. G. (A)
Rose, A. (SM)
Rudnick, P. (SM)
Schairer, O. S. (SM)
Schenck, J. (A)
Shulman, C. (SM)
Smith, P. T. (SM)
Stone, R. P. (M)
Surber, W. H., Jr. (M)
Sziklai, G. C. (SM)
Tolson, W. A. (SM)
Vose, C. H. (SM)
Ware, W. H. (A)
Webb, R. C. (M)
Weimer, P. K. (A)
Whalley, W. B. (VA)
Wilkinson, W. C. (M)
Willis, C. H. (SM)
Whittman, F. (A)
Wolff, I. (F)
Woodward, O. M., Jr. (A)
Young, C. J. (SM)
Yuan, L. C. (SM)
Zworykin, V. K. (F)

Rahway
Robinson, G. D. (A)
Sensening, W. A. (A)
Turnbull, H. A., Jr. (A)
Veals, T. A. (A)

Ramsey
Armstrong, C. A. (SM)
Cox, J. L. (A)
Muller, F. (SM)
Tague, W. T. (A)

Red Bank
Beck, A. C. (SM)
Berg, R. A. (M)
Bond, F. E. (M)
Borgeson, C. A. (A)
Brandt, R. H. (A)
Bruce, E. (SM)
Buegler, J. A. (M)
Bush, J. A. (A)
Carson, V. S. (A)
Chaney, H. L. (M)
Dahlman, H. E. (A)
Dale, G. V. (VA)
Davidson, E. D. (A)
Domidon, W. G., Jr. (A)
Egli, J. J. (A)
Edwards, C. F. (A)
Engberg, C. T. (A)
Frankel, H. (M)
Green, M. (A)
Gruol, J. W. (M)
Herber, J. C. (SM)
Huebner, D. L. (M)
Hunt, D. W. (M)
Johnson, G. D., Jr. (VA)
Keigher, B. J. (A)
King, A. P. (SM)
Klenk, L. M. (SM)
Lindner, H. G. (M)
Matzinger, K. (A)
McCandless, J. B. (M)
Meier, D. J. (A)
Mirman, I. (A)
Mond, L. I. (VA)
Morse, M. S. (A)
Neeley, A. C. (A)
Perkins, O. D. (SM)
Petrillo, S. E. (A)
Pratt, E. M. (A)
Reilly, V. E. (M)
Ring, D. H. (VA)

Robertson, S. D. (SM)
Roder, C. C. (VA)
Rubin, I. (M)
Schatz, H. J. (A)
Senn, G. F. (SM)
Sherburne, F. B. (A)
Spittle, S. E. (VA)
Swanson, J. W. (SM)
Taffel, B. R. (A)
Washileski, E. (A)
Vansant, F. T. (VA)
Young, H. H. (A)

Ridgefield
Colman, A. (A)
Kinzer, J. P. (SM)
Resides, W. C. (SM)

Ridgefield Park
Minton, W. C. (A)
Seidner, J. H. (M)

Ridgewood
Altman, F. J. (M)
Berry, C. D. (A)
Boyle, G. G. (A)
Cahill, W. J. (VA)
Cahoon, B. B. (A)
De Leon, J. (A)
Demarest, C. S. (SM)
Engel, G. C. (A)
Halford, J. H., Jr. (M)
Holt, A. C. (SM)
Katelansky, M. S. (A)
Roberts, J. M. (SM)
Seeley, E. S. (SM)

River Edge
Ennis, F. T. (VA)
Hopper, A. L. (M)
Samuelson, C. D. (VA)
Slack, S. J. (A)
Willms, G., Jr. (A)

Riverton
Collings, F. C., Jr. (M)
Good, L. H. (M)
Gunn, M. E. (M)
Whatley, R. L. (M)

Rochelle Park
Blumberg, M. (M)
Bowes, H. J. (A)
Hammond, M. L. (A)

Rockaway
Berger, U. S. (A)
Blackman, H. W. (A)
Davidson, C., III (A)
Lundstedt, C. V. (VA)

Roseland
Schoenbaum, J. R. (SM)

Roselle
Elwell, H. G., Jr. (A)
L'Hommediej, A. P. (A)
Ziolkowski, A. (A)

Roselle Park
McNicol, D. (F)

Rumson
Blom, B. V. (A)
Friis, H. T. (F)
Gottfried, A. H. (A)
Graul, D. P. (M)
Lacy, R. E. (SM)
Southworth, G. C. (F)
Teeter, A. A. (A)
Ward, J. E. (A)
White, A. S., Jr. (A)

Rutherford
Bailey, V. G. (A)
Bartholy, F. E. (VA)
Beyer, J. W. (SM)
Brett, H. M. (M)
Ecklund, R. E. (A)
Hanley, J. F. (VA)
Happe, W. H., Jr. (A)
Hartmann, W. A., Jr. (A)
Horbach, S. (M)
Kane, H. E. (VA)
Kearney, L. E. (A)
Kline, M. B. (M)
Mahler, A. E. (A)
O'Brien, F. L. (M)
Ring, C. E. (A)
Sakate, F. S. (A)
Schneider, A. E. (M)
Scott, G. R. (M)
Shea, T. E. (SM)
Simpson, W. F. (VA)
Van Winkle, E. W. (M)
Walter, C. W. P. (SM)

Salem
Clement, B. R. (A)
Morton, R. S. (VA)

Scotch Plains
Alsberg, D. A. (A)
Bailey, A. B. (SM)
Bell, J. S. (VA)
Eaton, S. B. (M)
Erholm, W. H. (M)

Seabright
Van Doeren, C. A. (VA)

Sea Girt
Pope, W. T., Jr. (M)

Sewell
Collar, H. W. (A)
Woodward, J. D. (SM)

Short Hills
Bailey, J. T. (A)
Brown, J. T. L. (VA)
Budenbom, H. T. (SM)
Curtis, R. C. (VA)
Fischer, H. B. (SM)
Giese, R. C. (SM)
Gilman, G. W. (SM)
Harrison, A. E. (M)
Heberlein, A. A. (VA)
Huber, G. H. (SM)
Jewett, F. B. (F)
Kelly, M. J. (F)
Lazier, J. C. (SM)
Martin, W. H. (SM)
Miller, J. H. (SM)
Morelock, O. J. (VA)
Norwine, A. C. (SM)
Tucker, J. P. (VA)
Vanderbilt, S. (A)
Wright, A. K. (SM)

Shrewsbury
Digby, J. F. (A)
Doering, K. M. (A)
Ross, A. H. (A)
Webster, R. G. (A)
Winkler, E. H. (A)

Sicklerville
Haines, P. K. (M)

Somerville
Hickman, D. H. (A)

South Orange
Bayles, J. C. (SM)
Burnap, R. S. (F)
Field, W. T. (VA)
Gardner, P. S. (A)
Garmany, W. J., Jr. (A)
Goldsmith, B. M. (A)
Hight, S. C. (SM)
Jervis, E. R. (VA)
Miller, H. J. (SM)
Misenheimer, H. M. (SM)
Robinson, A. L. (SM)
Royden, G. T. (F)
Stanwick, C. A. (VA)
Simbelkoff, J. A. (A)
Stoddard, R. N. (A)
Taylor, P. H. (VA)

South Plainfield
Bishop, J. C., Jr. (A)
Eggerding, H. B. (A)
Frantz, G. R. (SM)
Kmosko, J. A. (A)

South River
Ratynski, M. V. (M)

Sparta
Hussey, L. W. (SM)

Springfield
Beardsley, C. (A)
Bonadies, V. J. (M)
Cavenaugh, D. E. (A)
Goddard, C. T. (SM)
Lane, R. F. (VA)
Ozsvath, D. R. (M)

Spring Lake
Bozzelli, J. F. (A)
Brown, W. C. (M)
Kilgore, G. R. (SM)
Kunze, A. A. (SM)
Slattery, J. J. (SM)

Stelton
White, S. T. (M)

Stirling
Yocom, W. H. (A)

Summit
Affel, H. A. (SM)
Bennett, W. R. (SM)
Bohren, A. K. (SM)
Bond, W. L. (SM)
Boysen, A. P., Jr. (A)
Britnell, P. R. (A)
Carbrey, R. L. (M)
Cisne, L. E. (A)
Clement, A. W. (SM)
Cooper, E. D. (A)
Doherty, W. H. (F)
Dudley, H. W. (SM)
Eberhart, E. K. (M)
Ellis, B. T., Jr. (A)
Fagen, M. D. (M)
Feldman, C. B. (F)
Gabel, W. (M)
Hartman, C. D. (VA)
Hays, J. B., Jr. (A)
Hector, L. G. (SM)
Heising, R. A. (F)
Hull, R. W. (M)
Jensen, A. G. (F)
Kircher, R. J. (SM)
Knoop, W. A. (VA)
Knowlton, A. D. (SM)
Koerner, L. F. (VA)
Lenigan, T. E. (VA)
Llewellyn, F. B. (F)
Lundry, W. R. (A)
Maggio, J. B. (SM)
Marshall, R. W. (M)
Mathews, W. E. (A)
McKay, K. G. (M)
Meacham, L. A. (SM)
Mendenhall, H. E. (SM)
Michon, A. E. (M)
Miller, C. F. (M)
Moeder, W. D. (A)
Moore, G. E. (M)
Nail, J. J. (M)
Nichols, L. C. (VA)
Orth, R. T. (SM)
Ransom, G. B. (M)
Reiling, P. A. (VA)
Ridings, G. H. (M)
Russell, F. A. (M)
Ryder, R. M. (SM)
Satterthwaite, W. F. (A)
Sharon, J. L. (M)
Smith, D. A. (A)
Snow, W B. (VA)
Sprague, C. A. (SM)
Steiger, B. F. (A)
Taylor, C. W. (VA)
Trucksess, D. E. (VA)
Veazie, E. A. (VA)
Velie, A. C. (A)
Virgadamo, F. (M)
Waterman, F. N. (SM)
Wrathall, L. R. (A)
Young, W. R. J. (A)

Sussex
Bliss, D. C. (A)
Warren, H. B. (A)

Tabor
Stephenson, R. G. (M)

Teaneck
Billman, E. F. (A)
Credner, L. L. (A)
Florence, H. C. (M)
Luhrs, C. H. (A)
Mezger, G. R. (VA)
Preston, J. G. (VA)
Pulley, A. A. (VA)
Rado, J. A. (SM)
Sather, O. J. (M)
Shelby, R. E. (SM)
Triesner, J. E. (A)
Verseput, P. C. (A)

Tenafly
Copp, W. C. (A)
Eller, K. B. (VA)
Fink, D. G. (F)
Grenier, T. B. (A)
Grierson, C. A. W. (SM)
Hull, R E. (A)
Javna, S. L. (A)
Leddy, E., Jr. (A)
Paulson, G. A. (A)
Penick, D. B. (VA)
Russell, J. B., Jr. (SM)
Swensen, J., Jr. (VA)

Teterboro
Graham, R. B. (SM)
Rylsky, G. V. (M)

Trenton
Ballard, R. C. (SM)
Braytenbah, A. S. (A)
Carver, L. A. (M)
Dilley, J. E. (A)
Harris, F. M. (VA)
Hornyak, E. A. (A)
Parcinski, H. J. (M)
Rogers, E. S. Jr. (A)
Rosenberg, M. (A)
Sherman, J (A)
Steck, G. W. (A)
Strother, W. F. (A)
Wentzel, A. G., Jr. (M)
Yard, E. M. (M)

Tuckerton
Loux, S. (A)
Slater, F. R. (A)

Union
Edwards, J. B. (VA)
Heinz, A. (A)
Higgs, R. E. (A)

Union City
Bedoian, B. (A)
Bond, L. (M)
Donovan, D. R. (A)
Yockel, A. P. (A)

Upper Montclair
Arnott, R. F. (A)
Atwater, C. K. (A)
Borden, E. W. (A)
Chestnut, R. W. (SM)
Christaldi, P. S. (SM)
Coffman, B. C. (M)
Crane, R. E. (SM)
De Long, O. A., Jr. (VA)
Dumont, A. B. (F)
Everett, L. C. (SM)
Fernald, O. H. (A)
Findlay, J. H. (SM)
Godley, P. F. (VA)
Godley, P. F., Jr. (A)
Goldsmith, T. T., Jr. (SM)
Gunther-Mohr, G. R. (A)
Hulst, G. D. (M)
Lempert, I. E. (M)
Moore, J. H. (SM)
Neill, C. L. (A)
Osborne, H. S. (F)
Rich, P. A. (A)
Roemisch, J. L. (SM)
Rose, F. C. (A)
Steadman, A. (A)
Wheeler, M. S. (A)

Verona
Bokovoy, S. A. (A)
Butler, H. R. (VA)
Cameron, E. G. (A)
Dailey, H. J. (A)
Edwards, P. G. (SM)
George, E. E. (SM)
Griffith, B. G. (VA)
Jacobs, G. W. (M)
Janes, A. W. (A)
Knowles, D. D. (A)
Porter, T. R. (A)
Shaw, G. R. (SM)
Tompson, E. C. (A)

Wallington
Zak, S. (A)

Wanamassa
Ercolino, M. D. (A)
Mudgett, A. H. (A)

Wanaque
Ryerson, J. D. (A)

Watchung
Warren, C. A. (SM)

Weehawken
Nielsen, G., Jr. (A)
Porterfield, C. (A)
Treuhaft, M. A. (A)

West Belmar
Hixson, J. D. (M)
Strom, C. A., Jr. (M)

West Caldwell
Baxter, C. L. (A)
Eberhard, L. E. (VA)
Hampshire, R. A. (VA)
Hazlehurst, E. (VA)
James, W. M. (SM)
McKechnie, J. S. (SM)
Miller, H. P., Jr. (SM)
Myers, R. H. (A)
Schade, O. H. (SM)
Schor, H. (M)
Wilde, A. E., Jr. (A)
Willis, F. C. (SM)

West Collingswood
Berry, H. W. (A)
Daly, G. M. (A)
Henderson, R. A. (SM)
Keith, E. G. (A)
Lee, W. S. (A)
Newborg, D. S. (A)
Perry, S. V. (VA)
Talmage, F. E. (A)

West End
Mangiameli, V. S. (A)

West Englewood
Anthony, I. B. (A)
Brown, W. G. (A)
Lanxner, J. M. (A)
Paulsen, J. F. (A)
Scott, D. A. (A)
Walsh, A. A. (SM)
Wilbur, E. C. (VA)
Zuschlag, T. (A)

Westfield
Burns, G. K. (VA)
Dinzl, R. A. (A)
Green, L., Jr. (A)
Hanson, F. E. (SM)
Hart, G. W. (A)
Horne, J. F. (A)
Klute, W. A. (SM)
Laube, H. W. (VA)
Mas ingham, H. J. (A)
Mathes, R. E. (SM)
Peterson, L. J. (M)
Pulley, L. A. (VA)
Smith, K. D. (SM)
Stillwell, A. L. (SM)
Toole, L. J. (A)
Vance, R. L. (SM)
Van Tassel, E. K. (SM)
Winter, H. F. (A)

West Long Branch
Deisinger, D. A. (SM)
Emurian, A. D. (SM)
Griffith, P. E. (M)

Westmont
Brown, E. M. (A)
Ewing, D. H. (SM)
Fish, C. A. (A)
Grundmann, G. L. (VA)
Lev, S. N. (VA)
Taylor, J. P. (VA)

West New York
Kovarik, H. (A)
Parrott, R. D. (M)
Thomas, W. E. (VA)

West Norwood
Griffin, A. T. (A)

West Orange
Bain, J. C. (VA)
Bobrow, E. N. (A)
Crowley, H. L. (SM)
Dalrymple, H. C. (A)
Edison, T. M. (VA)
Glauber, J. J. (SM)
Hess, R. C. (A)
Hetherington, G. V. (A)
Higgins, W. H. C. (M)
Kishpaugh, A. W. (SM)
Mason, W. P. (F)
McCurdy, R. G. (SM)
Panter, P. F. (A)
Perkins, G. C. (VA)
Perkins, T. B. (M)
Puder, R. K. (A)
Reise, H. A. (SM)
Ryan, F. M. (F)
Schapra, M. (A)
Sears, R. W. (SM)
Shangraw, C. C. (SM)
Snow, H. A. (VA)
Somers, R. M. (SM)
Taft, C. R. (SM)
Walcutt, J. L. (A)
Warren, W. H. (M)

West Paterson
Zarpaylic, J. (A)

West Summit
Steele, R. B. (A)

Westwood
Daviet, W. C. (A)
Gregory, G. S. (A)
Kunz, W. J., Jr. (SM)

Wharton
Cohen, I. S. (A)

Whippany
Adamson, A. A. (M)
Helm, H. A. (A)
Leibing, J. K. (A)
McFarland, R. T. (M)
Morrison, J. F. (SM)
Nordahl, I. G. (SM)
Reichle, W. E. (SM)
Stanton, S. W. (VA)
Wischmeyer, C. R. (M)

Woodbury
Haines, B. P. (A)
Hershey, R. L. (A)
Seeberger, L. M. (A)
Skinner, R. L. (A)

Woodbridge
Arcand, W. (M)

Gempp, T. A. (A)
Kennedy, A. (M)
Kennedy, J. (A)
Legrand, J. S. (VA)
Milne, G. O. (SM)
Warner, H. K. (M)

Wyckoff
Menes, H. (A)

NEW MEXICO

Alamogordo
Marsano, R. W. S. (A)

Albuquerque
Church, T. S. (A)
Creveling, R. (M)
Crozier, W. D. (VA)
Dodds, L. F. (A)
Gessert, E. C., Jr. (A)
Hopkins, L. A., Jr. (M)
Johnson, G. S. (A)
Kabell, J. (A)
Larsen, P. J. (SM)
Miller, E. G., Jr. (M)
Morgan, R. B. (A)
Pace, T. L. (A)
Paddison, L. J. (A)
Palmer, J. E. (M)
Sangster, L. M. (A)
Senter, C. H. (M)
Smith, W. T. (A)
Wright, O. L. (M)

Carlsbad
Nifong, H. A. (A)

Cedar Crest
Milton, O. (A)

Clovis
Engle, B. E. (A)

Fairacres
Bright, W. E. (M)

Hot Springs
Culp, H. R. (A)

Las Cruces
Hemingway, F. S., Jr. (M)
Meyer, C. F., Jr. (A)

La Luz
Smith, C. R. (A)

Los Alamos
Hedberg, C. A. (M)
Hiestand, N. T. (M)
Jensen, K. S. (M)
Lawler, R. J. (A)
Pollock, B. D. (A)
Rupert, G. N. (A)
Sewell, C., Jr. (A)
Sperling, P. (A)
Tascher, R. F. (A)
Taylor, R. A. (A)
Weber, W. (A)

Lovington
Blackmon, T. M. (A)

Monista
Rothman, M. I. (M)
Wisner, R. M. (M)

Portales
Pratt, F. E. (A)

Santa Fe
Lilienthal, J. R. (A)
Woodward, M. W. (SM)

State College
Brown, H. A. (A)
Fleissner, C. L. (A)
Riese, R. L. (A)

Tulurosa
Crom, G. C. (SM)

NEW YORK

Albany
Bloomsburgh, R. A., Jr. (M)
Conway, M. J. (A)
Daloisio, V. G. (A)
Dewire, D. S. (M)
Feiker, G. E., Jr. (M)
Gisser, D. (A)
Hudson, A. E. (A)
Johnson, G. L. (M)
Marin, I. L. (A)
Myers, S. F. (A)
Norvik, F. J. (A)
Rubenstein, A. S. (A)
Schoenfuss, A. F. (A)

Albion
Yahnke, W. J. (A)

Alfred
Burzycki, M. (A)

Amityville, L. I.
Brockner, C. E. (A)
Cardwell, A. D. (VA)
Cosmos, A. (A)
Gagne, D. J. (A)
Krueger, A. C. (M)
Smith, A. D., Jr. (M)
Wyman, J. E. (A)

Amsterdam
Garratt, P. M. (A)

Angola
Schlee, M. (A)

Ardsley
Conviser, H. (VA)

Atlantic Beach
Ricker, A. M. (A)

Attica
Pratt, D. E. (A)

Auburn
McMillen, C. J., Jr. (A)

Babylon, L. I.
Abernethy, R. L. (A)
Bleil, F. J. (SM)
Brewer, H. G., Jr. (A)
Buff, C. (A)
Gollhofer, P. J. (M)
Hoeper, H. B. (A)

Baldwin, L. I.
Andrews, E. G. (A)
Barnes, R. S. (A)
Bowie, W. S. (SM)
Costello, E. (M)
Dayton, F. R. (A)
Ellis, T. H. (A)
Fleming, C. C. (M)
Fraser, R. M. (M)
Hanson, K. W. (A)
Jahn, D. M. (A)
Skipper, L. C. (M)
Storey, A. E. (A)
Walker, L. C. (A)
White, J. A. (A)

Baldwinsville
Fitzmaurice, S. R. (M)
Jensen, R. C. (VA)
Johnson, M. R. (SM)
Keister, J. E. (SM)
Mayer, H. F. (SM)
Rhodehamel, A. J. W. (A)
Vladimir, L. O. (M)

Ballston Lake
Reynolds, M. T. (M)
Teare, W. H. (SM)
Webber, S. E. (A)

Ballston Spa
Bain, G. W. (VA)

Bayport, L. I.
Kuper, J. B. (SM)
McCauley, A. R. (A)

Bayshore
Faltin, J. W. (A)

Bayville, L. I.
Bartolomei, G. G. (A)

Beacon
Conover, D. G. (A)
Cummings, C. E. (M)
Pullis, F. D. (A)

Bellmore, L. I.
Glaser, E. M. (SM)
Schill, R. H. (A)
Young, R. A. (A)

Berne
Chalberg, H. W. A. (A)

Binghamton
Crago, P. H. (A)
Decker, G. A. (VA)
Hicken, J. (A)
Merchant, J. H. (A)
Stantz, L. H. (A)

Bowmansville
MacArthur, R. C. (A)

Brentwood, L. I.
Den Onis, A. (A)

Brewerton
Mills, T. L. (A)

Brightwaters, L. I.
Garrettson, T. M. (A)
Lang, J. G. (VA)

Bronxville
Ashby, A. L. (VA)
Ayer, O. G. (VA)
Bartelink, E. H. B. (SM)
Beverage, H. H. (F)
Brown, H. A. (A)
Farrand, C. L. (F)
Getting, H. W., Jr. (A)
Hussey, C. M. (A)
Keller, A. C. (VA)
Lord, R. (A)
Lutz, S. G. (SM)
McCoy, R. D. (A)
Meloy, T. (A)
Miller, E. (A)
Pannill, C. J. (F)
Serrell, R. (SM)
Simberkoff, S. W. (A)
Spence, P. W. (M)

Buchanan
Rose, H. E. (A)

Buffalo
Andriatch, N. D. (A)
Arnold, R. F. (A)
Bargman, M. (A)
Bergerson, W. (A)
Blinzler, R. F. (M)
Bolm, A. A. (A)
Bozak, R. T. (A)
Bruch, R. (VA)
Burbank, J. (VA)
Carlson, K. J. (M)
Coon, M. A. (A)
Corey, V. B. (A)
Corp, D. E. (A)
Dybowski, A. J. (VA)
Earshen, J. J. (A)
Ehrhardt, R. (A)
Ellison, D. R. (A)
Fogel, C. M. (A)
Forster, H. F. (A)
George, D. E. (A)
Glass, L. M. (A)
Grossman, H. (SM)
Hark, G., Jr. (A)
Hoffman, K. B. (M)
Huber, C. W. (VA)
Hull, R. E. (A)
Hultberg, C. A. (SM)
Iddings, H. G., Jr. (A)
Kiefer, C. F., Jr. (A)
Kingsley, R. J. (M)
Kowal, L. J. (A)
Landay, R. B. (A)
Lang, H. J. (A)
Lautz, C. F., Jr. (A)
Levin, K. L. (A)
Levy, R. S. (A)
Manchester, E. J. (A)
Marcinkowski, C. J. (A)
Masque, N. (A)
Maynard, H. M. (A)
McGarvey, H. J. (A)
Meyer, H. (A)
Mezger, C. C. (A)
Milton, L. A. (M)
Myers, J. F. (M)
Newman, J. J. (A)
Nowicki, J. J. (A)
Obrofta, A. L. (A)
Odien, E. J. (A)
Okonski, C. B. (A)
Olney, V. W. (A)
Podbielniak, T. (M)
Popovich, B. (A)
Posluszny, A. G. (A)
Ridgeway, F. B. (M)
Roy, E. H. (A)
Rupert, W. L. (A)
Sanders, E. R. (SM)
Sanders, E. W. (M)
Schukowski, J. (A)
Schuler, J. G. (A)
Seeman, W. F. (VA)
Spencer, N. A. (A)
Staderman, H. W. (M)
Swartzel, K. D. (M)
Tittle, H. C. (VA)
Vanacore, T. (VA)
Van Baalen, J. M. (A)
Van Every, B. (A)
Wagner, R. W. (M)
Wand, E. C. (VA)
Yerger, L. K. (A)

Callicoon
Denning, L. S. (A)

Canandaigua
Brough, A. E. (A)
Mountjoy, G. (SM)
Schafer, C. R. (A)

Canisteo
Ingalls, C. E. (SM)

Canton
Boak, I. S. (M)

Catskill
Bryant, H. G. (A)

Cazenovia
Chamberlain, P. L. (A)

Cedarhurst, L. I.
Carduner, W. (VA)
Dick, T. M. (A)
Glucksman, H. A. (A)
Harris, H. (A)
Koch, R. F. (A)
Mercier, A. E. (VA)
Norris, S. (A)

Centerport, L. I.
Joss, E. T. (VA)
Mims, C. E. (A)

Central Islip
Bruck, G. G. (SM)
Tate, J. B. (M)

Central Valley
James, R. T. (VA)

Chappaqua
Gilbert, C. M. (A)
Leach, E. A. (SM)

Commack
James, G. W. (M)

Constantia
Copp, J. H. (SM)

Corning
Bell, A. N. (A)
Cammen, M. M. (M)
Eilers, W. (A)
Guyer, E. M. (M)
Hocker, J. P. (M)
Shaw, M. R., Jr. (M)
Wetmore, W. L. (A)
Wohlwill, H. E. (M)

Cortland
Rust, W. M. (A)

Crestwood
Maass, C. E. (A)

Croton-on-Hudson
Lescarboura, A. C. (M)

Cuba
Miller, E. A. (A)

Dewitt
Clark, H. T. (SM)
Taylor, F. W. (A)
Walker, O. F. (SM)
Watts, D. E. (SM)

Dobbs Ferry
Boyle, H. G. (A)
Crawford, R. V. (A)
Espersen, G. (VA)
Fezer, H. (A)
Lorber, J. F. (M)
Trifari, F. R. (A)
Warren, J. B. (A)

Dolgeville
Pickert, C. E. (A)

Dover Plains
Crawford, C. S. (A)

Dumont
Morris, R. M. (A)

Dunkirk
Barris, H. A. (A)

East Aurora
Hopkins, J. E. (A)

East Hempstead, L. I.
Cornes, R. W. (VA)
Folland, D. F. (M)
Fragola, C. F. (A)
Gould, R. V. (A)
Murphy, E. J. (M)
Venaglia, E. J. (M)

East Meadow, L. I.
Slack, W. J. (M)

East Moriches
Burditt, W. F. (A)

East Norwich, L. I.
Churchill, D. B. (M)
Fowler, C. A. (A)

East Patchogue, L. I.
Blewett, J. P. (A)

East Rockaway, L. I.
Edgerton, J. F. (A)
Finch, L. (SM)
Hanseman, C. (A)
Lephakis, A. J. (A)
Peters, A. E. (A)
Roemer, A. K. (M)

East Syracuse
Barlow, L. C. (A)
Downie, J. W. (SM)
Hatchett, S. E. (SM)
Smee, P. G. (M)
Wintle, H. C. (M)

East Williston, L. I.
Byrne, J. F. (SM)
Fromm, W. E. (M)
Schulz, R. F. (A)

Eggertsville
Borkowski, C. J. (M)
Forbes, H. C. (F)
Laurien, I. M. (A)

Elma
Vorie, I. N. (VA)

Elmira
Greene, T. A. (M)
Hart, W. E. (A)

Elmont, L. I.
Bloom, L. (A)
Guenther, J. H. (M)
Miller, G. (A)
Rhodes, M. L. (A)

Elmsford
Carlisle, R. W. (A)
Greenbaum, W. H. (A)
Jaques, P. I. (A)

Endwell
Canning, R. G. (A)

Fairport
Harris, L. M. (M)
Holmes, L. C. (M)
MacKenzie, J. M. (A)

Farmingdale
Elliott, J. O. (A)
Westlake, P. R. (A)

Fayetteville
Barhydt, C. R. (SM)
Blakelock, A. O. (A)
Deerhake, F. M. (SM)
Galbraith, C. R. (SM)
Kelley, J. J. (A)
Mushrush, R. S., Jr. (A)
Norem, R. E. (A)
Rives, F. M. (SM)
Thomas, H. P. (SM)

Fishkill
Corson, B. R. (A)

Franklin Square, L. I.
Blaisdell, H. L. (M)
Clark, T. G. (A)
Colton, A. J. (A)
Graham, W. B. (A)
Lorch, J. (M)

Franklinville
Wagner, D. W. (A)

Freeport, L. I.
Barone, S. A. (SM)
Bernstein, P. (A)
Dolphy, E. L. (VA)
Dorne, A. (M)
Hesse, A. N. (VA)
Martin, J. L. (A)
Nelson, R. C. (A)
Prichard, J. S. (A)
Tricamo, V. A. (M)

Galway
David, W. R. (A)

Garden City, L. I.
Allen, H. E. (SM)
Browder, J. E. (M)
Buttschardt, C. C. (A)
Caswell, J. N. (A)
Cooke, W. T. (SM)
Dunn, L. J. (SM)
Dyer, J. N. (SM)
Eveland, E. H. (A)

Fitch, W. A. (SM)
Frantz, W. P. (M)
Fuboni, E. G. (SM)
Gamble, J. H. (A)
Gemmill, F. Q. (A)
Grabiec, J. J. (M)
Hackley, G. E. (A)
Heins, J. L. (VA)
Henney, K. (F)
Isbister, E. J. (SM)
Keim, D. Y. (VA)
Learned, V. (SM)
Lebenbaum, M. T. (SM)
Lundstrom, O. C. (A)
Mallett, J. D. (A)
Marston, R. S. (M)
McGregor, J. C. (M)
Mellor, W. N. (VA)
Morton, G. W. (M)
Palmer, R. N. (SM)
Rambo, W. R. (SM)
Rau, D. S. (SM)
Schock, J. O. (M)
Schwartz, H. E., Jr. (A)
Sensiper, S. (SM)
Somers, B. A. (VA)
Stewart, S. W. (M)
Wies, G. A. (M)
Wilson, L. B. (M)
Winchell, W. H. (VA)

Getzville
Wroblewski, T. (A)

Gibson, L. I.
Ruppel, A. E. (A)

Glen Cove, L. I.
Disney, V. H. (A)
Doncese, G. (A)
Hanson, G. N. (SM)
Kiser, W. L. (M)
Martin, P. S. (M)
Meinheit, C. E. (A)
Shannon, W. W. (A)
Stobbe, J. A. (SM)

Glen Head
Martin, E. E. (A)
Reed, F. C., Jr. (A)
Thomas, E. U. (M)

Glens Falls
Pace, E. C. (A)
Wells, H. D. (M)

Glenwood Landing
Wang, C. C. (A)

Gloversville
Horton, M. D. (A)

Goshen
McClean, J. F. (M)

Gouverneur
Greene, W. E. (A)

Great Neck, L. I.
Beverly, N. E. (A)
Bradley, G. G. (M)
Chubb, C. F., Jr. (A)
Crawford, J. D. (SM)
Davidson, E. D. (A)
Dostal, F. X. (VA)
Dunlap, O. E., Jr. (SM)
Fraser, R. (A)
Hinchey, R. L. (A)
Kellogg, D. S. (A)
Langley, R. H. (F)
Loughren, A. V. (F)
Muller, J. H. (SM)
Okrent, J. (SM)
Pasek, D. M. (A)
Quick, A. E., Jr. (A)
Relson, M. (M)
Roake, W. C. (M)
Seigle, R. K. (A)
Stone, W. R. (A)
Sussman, H. (SM)
Valentine, R. W. (A)
Waples, P. E. (M)
Wathen, R. L. (M)
Weinberger, J. (F)
Wheeler, H. A. (F)
Willenbecker, J. F. (SM)

Greenlawn, L. I.
Sadler, W. E. (A)

Halesite
Boughtwood, J. E. (M)

Hall
Phillips, L. B. (M)

Hamburg
Fiedler, L. (M)
Marks, F. L. (A)
Wertz, H. J. (A)

Hampton Bays, L. I.
Knapp, J. F. (VA)
Moore, H. A. (A)
Turner, F. T. (A)

Harmon
Devereux, W. E. (A)

Harrison
Robin, H. L. (A)

Hartsdale
Caldwell, J. H. (A)
Deuth, A. F. (SM)
Crownover, J. W. (A)
Engelhardt, G. B. (VA)
Lawrence, J. G. (A)
Stanbery, J. F. (M)

Hastings
Cooper, F. S. (A)
Runyon, C. R., III (A)

Hastings-on-Hudson
Batchelor, J. C. (VA)
Chasan, L. (A)
Davies, J. D. (A)
Guild, B. (SM)
Landry, A. W. (A)
Leonard, A. A. (A)
Lodge, W. B. (SM)
Miller, D. H. (VA)
Murray, W. W. (A)

Hawthorne
Barrett, E. (M)
Casabona, A. M. (A)
Smith, L. A. (A)

Hempstead, L. I.
Allen, W. T. (A)
Andrews, G. B. (A)
Avery, R. D. (SM)
Bourquin, J. L., Jr. (A)
Carlstrom, T. H. (A)
Collens, C. W. (M)
Crist, P. W. (A)
Dannals, E. W. (M)
Dean, W. (A)
Downs, J. W. (A)
Evans, C. L. (A)
Fails, W. A. (M)
Farnsworth, N. B. (A)
Feeney, C. J. (A)
Ferrill, T. M., Jr. (SM)
Gillette, P. R. (M)
Guiles, C. H. (A)
Hartman, L. A. (A)
Hesse, H. R. (M)
Hollywood, J. M. (SM)
Johnson, H. E. (A)
Johnston, C. M. (A)
Keeler, P. M. (A)
Kent, S. F. (VA)
Lester, J. M. (SM)
Longacre, H. C. M. (M)
Mandl, G. P. (M)
Miller, D. M. (SM)
Miller, V. F. (A)
Peters, J. L. (VA)
Preston, W. H. (A)
Rich, C. E. (A)
Richards, G. F. (M)
Rothschild, R. F. (M)
Shepherd, J. E. (SM)
Sherwood, E. M. (VA)
Skirrow, J. E. (A)
Spencer, B. F. (M)
Stearns, H. M. (A)
Stotz, C. C. (A)
Strum, P. D. (A)
Thomson, V. E. (A)
Wattson, H. B. (SM)
Wehner, R. S. (A)
Wheeler, R. B. (A)
Wilkerson, J. R. (A)
Woodworth, F. B. (SM)
Yuran, T. (A)

Hewlett
Metcalfe, D. (SM)

Hicksville, L.I.
Alter, J. (A)
Steinhaus, A. W., Jr. (A)
Tolles, W. E. (M)

Hillsdale
Sabeff, S. S. (M)

Huntington, L. I.
Aske, V. H. (M)
Bethel, C. D., Jr. (M)
Cahill, F. C. (SM)
Day, W. B. (A)
Kolp, J. S. (A)
Litchford, G. B. (M)
Lyman, J. (A)
Lyons, R. C. (A)
Rivers, R. A. (A)
Steber, W. C. (A)
Stephenson, J. G. (M)
Webber, H. E. (A)

Huntington Station, L. I.
Harvey, N. L. (M)
Serniuk, W. (M)

Irvington
Doll, E. B. (SM)
Kendall, P. R. (M)
Kohler, T. R. (A)
Roberts, F. B. (A)
Roush, G. E. (A)

Islip, L. I.
Koleda, J. T. (A)
Thomas, F. G. (A)
Wiener, W. A. (A)

Ithaca
Ankrum, P. D. (A)
Ballard, W. C., Jr. (SM)
Beck, G. (A)
Burrows, C. R. (F)
Credle, A. B. (VA)
De Neuf, D. K. (SM)
De Young, B. (A)
Farugie, J. R. (A)
Hamlin, E. W. (A)
Kraushaar, W. L. (A)
Kreezer, G. L. (A)
Logue, J. C. (A)
McGaughan, H. S. (M)
McLean, T. (A)
Miller, G. H. (M)
Newhall, H. F. (A)
Osborn, R. E. (A)
Sarwate, V. V. (A)
Seeger, C. L., III (A)
Watlington, F. W. (A)
Zimmerman, S. W. (A)

Jamestown
Heston, W. S. (M)

Johnson City
Pittsley, E. L. (A)

Kenmore
Bieda, W. C. (A)
Brown, I. J. (A)
Chandler, J. F. (A)
Fischler, P. E. (M)
Frazier, R. E. (A)
Gull, R. A. (A)
Higgs, H. P. (A)
Holmes, W. S. (A)
Kaushagen, W. M. (A)
Kelly, R. E. (A)
Lamy, R. H. (A)
McCullough, F. S. (A)
Noel, L. S. (A)
Riggs, J. H. (A)
Stephenson, H. B. (A)
Wiley, V. H. (A)

Kings Park
Young, R. D. (A)

Kings Point
Thompson, J. L., Jr. (A)

Kingston
Segal, H. (A)

Lake Ronkonkoma, L. I.
Eslinger, R. L. (A)
Pine, C. C. (M)

Lake Success, L. I.
Barrow, W. L. (F)
Morrow, C. T. (A)

Lakewood
Carlson, E. R. (A)
Samuelson, F. L. (A)

Lancaster
Scott, M. C. (A)

Larchmont
Connor, G. C. (VA)
De Pasquale, R. H. (M)
Eaves, A. J. (SM)
Johnson, E. M. (SM)
Kerby, G. A. (A)
Levy, M. L. (SM)
McCann, T. A. (A)
Nielsen, H. V. (VA)
Plowman, F. R. (A)
Rosenberg, P. (A)
Rudd, W. C. (A)
Van Der Veen, H. (VA)
Van Lieshout, L. J. A. (SM)
Watson, E. F. (SM)

Lawrence, L. I.
Rich, E. M. (A)

Leroy
Fallon, M. W. (A)
Lapp, R. S. (VA)

Lincolndale
Bruns, W. H. (M)

Lindenhurst, L. I.
Blackstone, H. (A)
Hansel, P. G. (A)
Kramer, A. S. (A)

Liverpool
Anderson, H. W. (SM)
Crawford, C. H. (A)
Fisk, R. E. (M)
Goetter, W. F. (A)
Hafstrom, W. E. (M)
Malheiros, L. G. (A)
Miner, C. R. (M)
Rankin, J. G. (A)
Sturtevant, C. E. (M)
Upham, S. W. (M)
Wadsworth, C. A. (M)
Wayne, C. R. (A)

Livonia
Du Bois, H. E. (A)

Lockport
Bulmore, H. R. (A)

Long Beach, L. I.
Meehan, J. D. (A)
Seccombe, W. T. (VA)
Shary, R. F. (A)
Shiren, N. S. (A)

Loudonville
Rulison, J. P. (M)

Lynbrook, L. I.
Alexander, G. M. (A)
Dixon, L. G. (M)
Gittelson, F. (A)
Heitner, A. J. (A)
Hubbard, F. A. (SM)
Knaack, F. E. (A)
Loughlin, B. D. (M)
Mahoney, J. J., Jr. (A)
Mas, G. E. (A)
Richardson, K. (A)
Simon, W. C. (SM)
Teommey, G. H., Jr. (M)
Vandenburgh, A. A. (A)
Walker, A. C. (A)
Weinstein, M. (A)

Malverne, L. I.
Callahan, J. L. (SM)
Felix, E. H. (SM)
Gaffney, F. J. (SM)
Gibbs, E. D. (A)
Johnson, G. R. (M)
Rojas, F. R. (SM)
Schneider, R. E. (VA)
Tanck, H. (VA)
Thogersen, G. O. (A)
Thompson, R. G. (VA)
Van Rosenbergh, W. (A)

Mamaroneck
Pelton, R. G. (M)
Schoenfeld, E. (SM)

Manhasset, L. I.
Anderson, E. I. (SM)
Bitner, R. E. (A)
Bowie, R. M. (F)
Brunn, R. B. (VA)
Carter, E. F. (F)
Flackbert, A. C. (A)
Hamlett, R. T. (SM)
Hathaway, J. L. (SM)
Miller, R. E. (A)
Nickel, F., Jr. (VA)
Peck, A. G. (SM)
Pratt, H. (F)
Rea, W. T. (SM)
Rich, G. C. (VA)
Robinson, J. T. (A)
Rogan, J. J. (SM)
Scott, G. G. (A)
Srebroff, C. M. (SM)
Steen, J. R. (SM)
Taylor, C. C. (M)
Wertz, H. S. (A)
Wright, J. W. (SM)

Manlius
Caldwell, P. G. (A)

Manorville, L. I.
Howard, E. P. (A)

Marcellus
Stronger, W. L. (A)

Massapequa, L. I.
Baunach, E. L. (VA)
Desnoes, A. B. (A)
Osmundson, W. O. (A)

Mastic Beach
Fuelling, P. W. (A)

Mayville
Page, R. S. (A)

Milton
Fox, P. E. (A)
Fredendall, B. F. (VA)

Mineola, L. I.
Anderson, C. R. (M)
Berge, R. G. (M)
Bock, E. L. (A)
Brockman, M. H. (A)
Close, R. N. (A)
Comstock, G. C. (M)
Crosby, M. G. (F)
Edwards, R. S. (A)
Grossman, A. J. (M)
Harring, D. M. (A)
Hom, W. R. (A)
Howard, W. A. (M)
Ihrig, L. C. (M)
Johnson, J. H. (A)
Jones, B. F., Jr. (VA)
Karcher, E. R. (A)
Lamb, W. X., Jr. (M)
Lynch, W. A. (A)
Mankin, A. (M)
Margolin, J. (M)
Mieher, W. W. (M)
Skifter, H. R. (SM)
White, W. D. (A)
Woodward, J. E. (M)
Yost, R. R., Jr. (M)

Monroe
Vollkommer, W. A. (VA)

Monticello
Fleischer, A. P. (A)

Montour Falls
Shepard, W. H. (A)

Mount Vernon
Benzig, R. O. (A)
Brazee, G. (VA)
Campbell, C. H. (M)
Crotty, F. W. (A)
Davidson, S. (A)
Dubin, L. (A)
Eaton, J. E. (A)
Ehret, C. V. (A)
Foster, J. E. (A)
Hendricks, P. S. (VA)
Hineline, H. D. (VA)
Ley, B. J. (A)
Lupo, F. J. (A)
Monroe, R. B. (SM)
Moore, A. R., Jr. (A)
Pearson, H. A. (VA)
Podell, S. (M)
Reiss, R. S. (A)
Schulz, H. R. (A)
Sherman, F. L. (A)
Sonkin, D. (SM)
Stone, C. G., Jr. (A)

Nassau
Merchant, R. (A)
Smith, G. H. (A)

Nedrow
Smith, P. J. (A)

Neponsit, L.I.
Mitchell, I. A. (VA)

Newburgh
Strohm, W. E. (M)
Youngblood, H. R. (M)

New City
Doellner, R. J. (A)

New Hartford
Rider, P. Z. (A)

New Hyde Park, L. I.
Aucremann, R. C. (A)
Bahnson, F. N. (A)
Barasch, M. V. (M)
Borgelt, W. E. (A)
Bruce, G. B. (VA)
Burroughs, F. L. (SM)
Gilmartin, J. J., Jr. (M)
Graham, V. M. (F)
Gruenfelder, R. J. (A)
Haas, P. (VA)
McDonald, J. F. (A)
Nachemson, P. R. (A)
Neidert, J. H. (A)
Rogers, G. F. (A)
Sachs, A. F. (M)
Sherry, R. S. (A)

Thorp, W. E. (A)
White, W. T. (SM)
Worster, J. R. (A)

New Rochelle
Andraud, R. J. (A)
Burnell, L. G. (SM)
Cameron, H. J. (A)
Cipperly, W. L. (A)
De Hart, R. N. (A)
Donofrio, C. J. (A)
Dubilier, W. (F)
Goodale, E. D. (SM)
Greibach, E. H. (VA)
Hemming, C. B. (A)
Hirsch, J. D. (A)
Israel, D. D. (F)
Johnson, L. (A)
Langmuir, C. R. (A)
Mayer, C. G. (SM)
Moffat, W. H. (VA)
Parker, J. D. (VA)
Pray, G. E. (SM)
Prestholdt, O. (M)
Roach, J. H. (A)
Smith, H. E. (SM)
Temple, D. I. (A)
White, F. E., Jr. (VA)

Niagara Falls
Bovee, B. A. (VA)
Curtis, D. L. (A)
Edmonds, R. H. (M)
Feder, H. W., Sr. (A)
Goslin, T. P. (A)
Harr, F. I. (A)
Lidbury, F. A. (SM)
Rogers, K. E. (VA)
Rowe, R. G. (M)
Yount, T. L. (A)

Northport, L. I.
Eddy, J. (A)
Lockwood, M. D. (N)
Ohman, J. (M)

North Syracuse
Bunger, J. W. (M)
Granberry, H. W. (A)
Revercomb, H. E. (M)
Wood, R. F. (A)

North Tarrytown
Akin, R. M. (A)
Brown, G. M. (SM)
Palmquist, C. A. (A)

North Tonawanda
Johnston, G. D. (A)
Schnidt, F. M. (VA)

North White Plains
Pickles, S. (VA)

Nyack
Murphy, R. P. (A)

Oceanside, L.I.
Dreyer, J. F., Jr. (SM)
Schrader, W. A. (VA)

Ogdensburg
Lafferty, R. E. (M)

Olean
Reese, F. A. (A)

Oneida
Jones, D. H. (A)

Orangeburg
Hurd, E. L., Jr. (A)
Parker, S. R. (A)
Sammon, A. C. (A)

Ossining
Cole, B. M. (A)
Stavis, G. (M)

Oyster Bay, L. I.
Bisby, J. F. (A)
Ley, J. F. (A)
Stoner, F. E. (SM)

Patchogue, L. I.
Kassner, R. R. (A)
Petersen, L. E. (A)
Pressman, A. (M)
Young, C. H. (A)
Young, L. L. (A)

Pearl River
Porter, H. A. (A)

Peekskill
Milinowski, A. S., Jr. (VA)

Pelham
Chenery, P. J. (A)
Middlebrooks, J. L. (A)
Taylor, E. R. (VA)
Taylor, H. S. (A)
Wagenseil, W. (SM)

Penfield
Tennant, M. J. (A)

Penn Yan
Swing, M. (A)

Pheonix
Blanchard, A. W. (A)

Piffard
De Gregorio, J. F. (A)

Pleasantville
Gamertsfelder, G. R. (SM)
Garman, R. L. (A)
Greenwood, I. A., Jr. (A)
Hodder, W. K.
Jacobson, A. W., Jr. (A)
Kranz, F. W. (VA)
McKendry, J. K. (A)
Platt, W. C. (A)
Pourciau, L. L. (M)
Reed, H. J., Jr. (A)
Tull, W. J. (M)

Point Pleasant
Bullis, O. F. (A)
Traino, C. (A)

Port Chester
Fingerle, W., Jr. (SM)
Goodwin, C. W. (VA)
Houck, G. B., Jr. (A)
Koch, H. J. (A)
Lombardi, E. H. (A)

Port Jefferson, L. I.
Carter, P. S. (SM)
Dow, O. E. (VA)
Goldstine, H. E. (SM)
Hansell, C. W. (F)
Houghton, W. D. (A)
Lindenblad, N. E. (SM)
Merkle, W. W. (A)
Usselman, G. L. (VA)

Port Washington, L. I.
Aitken, R. K. (A)
Baston, W. M. (M)
Bracic, M. M. (A)
Bullard, W. R. (VA)
Clark, R. W. (VA)
Eisele, W. (A)
Erickson, J. S. (A)
Fetsch, J. T. (SM)
Fisher, H. J. (A)
Hoag, O. (A)
Jorgensen, A. C. (A)
Lewis, H. A. (SM)
Little, D. S. (SM)
MacAdam, W. K. (VA)
Weaver, A. (A)

Potsdam
Record, F. A. (A)

Poughkeepsie
Abell, G. R., Jr. (A)
Ambrosio, B. F. (A)
Northrop, P. A. (VA)
Phillips, F. G., Jr. (A)
Saling, D. (A)
Seimes, M. S. (A)
Summers, L. L. B. (A)
Wolfe, I. P. (A)

Purchase
Halstead, W. S. (SM)

Riverhead, L. I.
Atwood, J. B. (SM)
Braaten, A. M. (SM)
Crosby, M. G. (F)
Etter, J. M. (A)
George, R. W. (SM)
Goddard, D. R. (SM)
Hansell, G. E. (SM)
Hastings, J. M. (A)
Lindow, I. L. (VA)
MacLean, K. G. (SM)
Olsen, W. E. (A)
Peterson, H. O. (F)
Schock, R. E. (SM)
Schoenborn, F. J. W. (VA)
Taylor, H. A. (VA)
Trevor, B. (SM)
Weigen, R. B. (M)
Wickizer, G. S. (SM)

Rochester
Anderson, R. S. (VA)
Andzer, A. (A)
Angevine, O. L., Jr. (SM)
Attwood, F. E. (VA)
Balling, A. W. (VA)
Bellor, W. F. (VA)
Benvouloir, F. D. (A)
Brown, W. J. (VA)
Burke, J. O., Jr. (A)
Chesna, J. (A)
Clark, D. L. (A)
Craib, J. F. (SM)
Davis, K. E. (A)
Dobbin, R. R. (A)
Duffus, R. A., Jr. (A)
Eskin, H. M. (A)
Ferry, R. N. (M)
Fink, E. J. (A)
Finnigan, C. W. (SM)
Flockencier, W. E. (A)
Freehafer, J. E. (M)
Gardner, K. J. (M)
Gilhousen, L. E. (A)
Gordon, H. E. (VA)
Grant, J. P. (M)
Hailes, W. D. (SM)
Haupt, G. H. (VA)
Hausler, W. B. (A)
Heit, J. C. (A)
Henderson, K. L. (VA)
Herrick, M. P. (A)
Hodges, A. R. (SM)
Holbrook, R. O. (A)
Huntington, M. B. (VA)
Hutchinson, F. B. (A)
Karker, E. C. (M)
Klumb, H. J. (VA)
Knox, J. L. (A)
Malone, W. J. (A)
Manson, R. H. (F)
Marshall, J. F. (M)
McCanne, L. (SM)
Meeker, W. F. (M)
Mitchell, F. A. (A)
Morse, J. E. (A)
Newlon, A. E. (SM)
O'Brien, B. C. (A)
O'Brien, J. C. (M)
Odell, N. H. (A)
Plotkin, L. E. (A)
Prasil, A. (A)
Reese, H., Jr. (A)
Reynolds, F. L. (A)
Rodgers, J. A. (VA)
Roos, P. A. (A)
Schmidt, P. S. (A)
Schoen, A. L. (M)
Sheve, H. C. (VA)
Shurkus, A. A. (A)
Slaymaker, F. H. (M)
Stevenson, H. (M)
Stutt, C. A. (A)
Talpey, R. G. (M)
Tepper, C. W. (A)
Tholstrup, H. (SM)
Town, G. R. (SM)
Trotter, H., Jr. (SM)
Van Voorhis, S. N. (SM)
Weinberg, N. L. (A)
Wilson, E. S. (SM)
Wyman, B. D. (A)
Yeaton, E. C. (A)
Zimmer, E. C. (A)

Rockville Center, L. I.
De Weese, H. W. (VA)
Everett, F. C. (VA)
Hinners, F. A. (F)
Hoxie, I. R., Jr. (A)
Lester, P. S. (A)
Leuteritz, H. C., Jr. (VA)
Maurer, K. L. (A)
Rockett, F. H. (A)
Schabbehar, E. A. (A)
Singer, F. J. (SM)
Somers, F. J. (SM)
Uzmann, J. G. (SM)
Wise, R. M. (F)

Rocky Point, L. I.
Jaggers, H. D. (A)
Martin, C. A. (VA)
Watson, C. W. (A)

Rome
Graham, R. C. (A)
Schatz, F. V. (A)

Roosevelt, L. I.
Adachi, W. Y. (VA)
Bailey, S. J. (A)
Brown, E. M. (A)
Popkin-Clurman, J. R. (A)

Roslyn, L.I.
Kearney, J. W. (M)
Snyder, W. W. (A)

Roslyn Heights, L. I.
Bohlke, P. G. (M)
Cooper, D. T. (VA)
Hungerford, E. A., Jr. (A)
Knutson, H. C. (VA)
Seeley, S. W. (F)
Smith, C. A. (A)

Rye
Buttner, H. H. (F)
Deri, H. B. (A)
Hamilton, S. H. (A)
Haselton, M. L. (M)
Reade, R. B. (A)

Salamanca
Foran, F. M. (A)

Sampson
Rohner, G. J. (A)

Scarsdale
Appel, J. H., Jr. (M)
Buchtenkrich, A. J. (A)
Chertok, S. L. (A)
Crews, F. H. (VA)
Hankar, R. E. (A)
Harbury, P. L. (A)
Hazelwood, C. F., Jr. (A)
Hogin, P. E. (A)
Hultquist, J. A. (M)
King, K. L. (SM)
Kraepelien, H. Y. (M)
Marx, F. L. (SM)
Seitz, F. (A)
Shea, H. G. (A)
Stansfield, J. Q. (VA)

Schenectady
Abrahams, I. C. (A)
Alexanderson, E. F. W. (F)
Anderson, R. E. (M)
Austin, R. W. (A)
Beebe, W. J. (A)
Bornstein, I. (A)
Borst, D. W. (A)
Broughton, W. G. (VA)
Brown, W. W. (SM)
Callahan, G. F. (A)
Carlson, A. F. (A)
Clapp, C. W. (A)
Clark, S. C., Jr. (A)
Cleary, E. P. (A)
Cobine, J. D. (SM)
Cripe, J. H. (M)
Crugar, B. W. (A)
Dehn, R. A. (M)
Dickey, F. E. (A)
Dickinson, T. M. (VA)
Diehl, E. P. (A)
Downing, L. B. (M)
Duckwald, C. S., Jr. (A)
Dunham, S. B. (M)
Dunnegan, T., Jr. (A)
Eachus, E. D. (A)
Floyd, G. H. (M)
Ford, W. A. (SM)
Fraenckel, V. H. (VA)
Gable, A. C. (SM)
Gardiner, A. J. (A)
Gardner, G. F. (VA)
Grover, F. W. (SM)
Gurewitsch, A. M. (SM)
Hausz, W. (SM)
Henyan, G. W. (VA)
Hickey, J. S., Jr. (A)
Hodgers, R. W., Jr. (A)
Horton, C. E. (M)
Hull, A. W. (F)
Jacob, D. M. (A)
Jenks, D. W. (SM)
Johnson, T., Jr. (SM)
Kent, H. A. (M)
Kessler, G. W. (A)
Kirkpatrick, G. M. (M)
Lafferty, J. M. (M)
Lake, C. J. (A)
Lang, J. M. (A)
Larew, J. J. (A)
Larrabee, C. W. (A)
Larson, R. W. (SM)
La Violette, F. G. (M)
Lavoo, N. (M)
Lee, E. S. (SM)
Lemmond, C. O. (A)
Lewis, C. W., Jr. (A)
Lingard, A. (A)
Louden, W. C. (A)
Martin, E. J. (M)
Maser, H. T. (SM)
McArthur, E. D. (F)
Mead, M. S. (SM)
Meahl, H. R. (SM)
Michel, P. C. (SM)
Miller, S. E. (A)
Moles, F. J. (SM)
Moore, R. A. (A)
Morgan, R. E. (A)
Morrison, R. H. (M)
Mullenger, K. E. (A)
Mumford, L. G. (A)
Myers, A. F. (A)
Nelson, J. E. (A)
Nelson, R. B. (M)
Ogle, H. M. (A)
Parkhurst, R. G. (M)
Patterson, F. G. (VA)
Pennoyer, R. T. (SM)
Pester, R. F. (A)
Peters, P. H., Jr. (A)
Peterson, E. F. (M)
Peyton, P. B., Jr. (A)
Pike, O. W. (SM)
Pohl, R. V. (A)
Prince, D. C. (SM)
Purcell, W. J. (VA)
Ralls, J. W. (A)
Reed, R. I. (M)
Reque, S. G., Jr. (A)
Rice, C. T. (A)
Rice, C. W. (F)
Ringland, R. S. (A)
Ross, B. R. (A)
Rothe, F. S. (A)
Russ, R. B. (SM)
Sampson, E. S. (A)
Samsel, R. W. (A)
Sayles, P. W. (A)
Schramm, M. C. (M)
Schwarzhaupt, P. J. (VA)
Smith, H. M. (A)
Smith, R. L. (M)
Speir, F. H. (SM)
Stein, A. J. (A)
Straney, K. O. (A)
Summerhayes, H. R., Jr. (VA)
Taylor, L. A. (VA)
Thomas, W. P., Jr. (A)
Thorson, H. L. (A)
Watson, R. P. (M)
Watters, R. L. (A)
Waugh, G. T. (M)
White, W. C. (F)
Williams, J. F. (A)
Williams, J. R. L. (A)
Wilson, T. M. (M)

Scotia
Bailey, F. M. (M)
Campbell, V. C. (M)
Chambers, D. E. (F)
Cook, E. D. (F)
Coolidge, A. W., Jr. (M)
Cummings, M. M. (A)
Curtis, T. P. (M)
Dewalt, K. C. (SM)
Dushman, S. (SM)
Elder, T. A. (SM)
Fritschel, E. H. (SM)
Gardiner, P. C. (SM)
Hahn, W. C. (SM)
King, E. M. (A)
Knight, C. R. (M)
Mrose, J. E. (A)
Neuland, J. G. (A)
Norgaard, D. E. (VA)
Novick, M. (A)
Roberts, S. (M)
Shepard, B. R. (A)
Travis, E. F. (A)
Wigington, W. H., Jr. (A)

Sea Cliff, L. I.
Buchtenkirch, A. J. (A)
Hoadley, G. B. (SM)
Henry, E. A. (A)
Reyling, G. F. (A)
Swanson, E. H. (A)

Shenorock
Renke, A. (A)

Sherburne
Lundahl, T. (M)

Sheridan
Buck, D. G. (M)

Sidney
Knudson, L. I. (M)
Maylott, C. F. (VA)

Slingerlands
Dillenback, G. V., Jr. (A)
Naum, L. H. (M)

Snyder
Frederick, C. L. (M)
Harvey, H. F. (A)
Hayslett, L. E. (VA)

Southampton, L. I.
Buckingham, W. D. (A)
Homer, E. C. (SM)
Lamar, R. E. (A)

Spencerport
Ossman, E. A. (A)
Sibley, H. C., Jr. (A)

Spring Valley
Hauptman, R. (A)
Rosenbaum, J. (VA)

Stafford
Sheffer, O. N. (VA)

Stewart Manor, L. I.
Dewhirst, T. P. (VA)

Stony Brook
Medd, J. S. (A)

Suffern
Drew, W. B. (A)

Syracuse
Ackley, E. H. (A)
Ahern, W. R. (SM)
Andrews, P. D. (SM)
Apple, L. S. (A)
Aronson, C. A. (SM)
Bachman, C. H. (VA)
Bahr, R. J. (A)
Baker, W. R. G. (F)
Baldwin, C. F. (SM)
Barker, J. (A)
Barnes, J. C. (VA)
Belle Isle, A. G. (A)
Bennett, H. W. (M)
Biele, R. J. (A)
Bones, T. M., Jr. (A)
Brannen, C. W. (A)
Buchanan, H. R. (A)
Campbell, C. M. (M)
Canfield, E. B. (A)
Carr, E. F. (A)
Chapman, J. K. (A)
Chivers, C. C. (A)
Clement, R. R. (M)
Clements, S. E. (SM)
Cochran, N. B. (M)
Cohen, L. R. (A)
Cowden, D. G. (A)
Crosby, H. M. (SM)
Cummings, A. P. (VA)
Custin, T. G. (M)
Davids, H. H. (SM)
Davis, R. J. (A)
Dean, W. W. (SM)
Dome, R. B. (F)
Downes, L. (A)
Downey, R. F. (A)
Earls, H. G. (M)
Elliott, R. M. (A)
Ewing, L. M. (SM)
Fancher, H. B. (A)
Farrell, J. J. (F)
Flessa, V. E. (A)
Fowler, K. (A)
Fritschel, P. G. (VA)
Gada, N. (A)
Gangberg, F. (A)
Garon, A. J. (M)
Ginsberg, I. (A)
Glasford, G. M. (A)
Gruen, W. J. (M)
Haedecke, A. D. (SM)
Haeger, J. R. (M)
Hall, W. H. (M)
Hawes, B. K., Jr. (M)
Hawkins, D. W. (M)
Herzog, E. F. (A)
Hiehle, M. E. (SM)
Himes, R. (A)
Holder, F. P. (A)
Hundstad, C. E. (A)
Ingerson, F. A. (A)
Ingerson, K. E. (A)
Johnson, K. E. (A)
Jones, J. L. (SM)
Junken, L. H. (VA)
Kaar, I. J. (F)
Kenefake, E. W. (SM)
Ketchum, P. M. (M)
Kinzie, M. M. (A)
Kluender, E. C. (SM)
Kochevar, H. J. (M)
Kovacs, F. M. (A)
Koprowski, E. M. (A)
Learned, A. J. (A)
Leeds, L. M. (SM)
Lepage, W. R. (SM)
Lewis, R. V. (A)
Lippert, H. B. (M)
Longfellow, R. C. (SM)
Lucas, V. M. (M)
Lynn, L. H. (SM)
MacLeod, W. R. (M)
Manke, A. G. (SM)
Marvin, H. B. (SM)
Mather, D. L. (A)
McAllister, J. F., Jr. (A)
Metcalf, G. F. (F)
Milan, G. (A)
Miller, J. E. (A)
Moe, R. E. (SM)
Muir, D. A. (A)
Mullin, L. A. (SM)
Muntz, W. E. (A)
Nelson, J. W., Jr. (SM)
Nigg, D. J. (A)
Oldfield, H. R., Jr. (SM)
Olson, F. A. (M)
Olski, J. (A)
Onder, K. (SM)
Paul, A. D. (M)
Perkins, D. W. (A)
Peterson, N. J. (A)
Pinkerton, D. C. (SM)
Place, J. F. (A)
Plusc, I. (M)
Polisse, L. F. (M)
Pratt, H. G. (A)
Priest, C. A. (F)
Randall, D. P. (VA)
Ranks, J. E. (A)
Rector, R. V. (SM)
Reinsmith, G. M. (A)
Reynolds, F. M. (VA)
Roberts, E. G., Jr. (M)
Roys, C. S. (SM)
Rudolph, R. H. (M)
Samulon, H. (A)
Schatz, F. W. (A)
Scheiner, C. J. (M)
Schick, N. E. (SM)
Sear, A. W. (SM)
Seely, S. (SM)
Shaw, D. B. (A)
Shea, R. F. (SM)
Shofstall, N. F. (A)
Shetler, R. L. (A)
Simon, C. J. (M)
Smith, W. B. (A)
Steates, E. F. (VA)
Swank, W. (VA)
Teich, P. J. (A)
Thrasher, P. M., Jr. (A)
Towlson, H. G. (SM)
Twyford, L. C., Jr. (A)
Uren, D. E. (A)
Weir, I. R. (SM)
Whitmyre, R. P. (A)
Wiggin, J. F. (A)
Wilcox, J. F. (SM)
Wilkinson, D. A. (A)
Williamson, R. H. (SM)
Winchester, D. S. (A)
Yerian, C. S. (SM)
Yungwirth, G. J. (A)

Tappan
Bacon, A. M. (M)
Ulrich, E. C. W. (A)

Tarrytown
O'Brien, R. S. (M)
Moffett, L. (VA)

Thornwood
Drenker, J. W. (A)

Tonawanda
Davison, M. C. (A)
Haner, L. P. (A)
Reese, J. S. (A)

Tribes Hill
Jankowski, H. (A)

Troy
Babits, V. A. (M)
Chismark, A. H. (A)
Crew, W. H. (SM)
Hall, C. F. (A)
Harris, H. D. (VA)
Jackson, H. S. (A)
McLaughlin, W. J. (M)
Merrigan, C. F. (A)
Schwartz, R. F. (A)
Stoker, W. C. (VA)
Vosteen, R. E. (A)
Whitmer, R. M. (VA)

Tuckahoe
Austin, K. B. (VA)
Chinn, H. A. (F)
Collison, P. B. (SM)
Denmead, H. R. (A)
Drew, C. E. (SM)
Harnett, D. E. (F)
Waldron, R. E. (A)

Uniondale, L. I.
Hawkins, W. G. (M)

Upton, L. I.
Richards, P. I. (A)

Utica
Dowdell, J. T. (A)
Humphrey, J. G. (A)
Sherline, M. J. (A)

Valhalla
Genz, W. F. (A)
Hild, A. H. (A)
Jones, L. F. (A)
Mainberger, W. A. (A)
Parr, A. F. W. (A)

Valley Stream, L. I.
Bailey, W. F. (VA)
Chan, W. W. (A)
Cruickshank, J. E. (M)
Daugherty, R. H., Jr. (A)
Griesan, G. F. (A)
Hansen, J. A. (A)
Harley, J. B. (VA)
Hedler, A. C. (M)
Hornung, J. L. (SM)
Luntz, J. (A)
Rokosz, A. J. (A)
Schottland, F. D. (VA)
Schreiner, R. (A)
Swenson, W. J. (A)
Voelpel, J. (A)
Woodbury, W. F. (M)

Walker
Snook, R. J. (A)

Wappinger Falls
Phelps, B. E. (M)

Water Mill
Coroniti, S. C. (M)

Watertown
Bonadio, G. (A)
Morgan, C. W. (A)
Walck, W. J. (A)

Watervliet
Read, J. H. (A)

Watkin's Glen
Andreasen, I. (A)

Waverly
Spencer, S. W. (M)

Webster
Chalmers, E. D. (A)
Seibert, R. M. (A)
Tennant, M. J. (A)

Weedsport
Forman, J. (M)

West Albany
Lester, B. R. (A)

Westbury, L. I.
Abajian, H. B. (M)
Eldredge, E. E. (VA)
Fishman, G. N. (A)
Hana, T. C. (VA)
Hellmann, R. K. (VA)
Norde, L. (A)
Proskauer, R. (A)

West Hempstead, L. I.
Aveney, R. J. (M)
Boyd, H. W., Jr. (A)
Buck, J. D. (A)
Clarke, R. L. (A)
Fairweather, R. W. (A)
Hollingsworth, R. L. (M)
Palmer, W. (A)
Simmons, J. C. (M)
Stroebel, J. C. (SM)
Thiede, F. C. W. (VA)
Uttendorfer, E. A. (M)
Walker, R. M. (SM)
Weller, E. J. (A)
Westman, H. P. (SM)
Williamson, R. G. (A)

West Point
Gillette, E. C., Jr. (A)

White Plains
Adler, B. (VA)
Colvin, J. D. (M)
Desnoyers, H. (M)
Detar, D. R. (SM)
Duffendack, O. S. (SM)
Fearing, J. L. (VA)
Fetherolf, J. M. (A)
French, E. C. (VA)
Fullman, H. E. (A)
Gano, A. S. (SM)
Gilbert, J. (A)
Goddess, E. D. (A)
Griggs, E. V. (VA)
Hillman, D. A. (A)
Jacobus, H. R. (SM)
Kaye, H. W. (A)
Kleinberger, R. C. (A)
Lamarque, J. W. (VA)
Lambert, F. C. (A)
Napolin, S. (A)
Schwerin, P. (SM)
Smack, J. C. (VA)
Spaulding, F. E., Jr. (VA)
Speller, J. B. (A)
Watson, E. S. (A)

Williamsville
Janowsky, R. H. (A)
Kuhn, H. G. (M)
Pifer, M. J. (A)
Pontius, J. C. (M)

Williston Park, L.I.
Cutrona, L. J. (SM)
Fisher, D. L. (M)
Ghirlando, F. L. (A)
Lerch, Q. A., Jr. (A)
LeVay, T. C. (M)

Woodborn
Kile, R. L. (M)

Woodhaven
Derganc, W. (A)

Woodmere, L. I.
Bach, H. M. (A)

Woodstock
Van Rijn, J. C. (SM)

Yonkers
Allerton, G. L. (A)
Ames, I. M. (A)
Anner, G. E. (A)
Bailey, R. B. (A)
Buckley, F. A. (A)
Campbell, J. A. (A)
Carpenter, A. G., Jr. (A)
Condon, R. J. (A)
Dickert, J. E. (A)
Duggan, J. R. (A)
Fortington, W. H. (M)
Hefele, J. R. (VA)
Hesse, G. L. (A)
Jennings, M. H. (A)
Latzer, R. I. (A)
Looney, L. A. (VA)
Lynch, H. G. (A)
Miller, K. S. (A)
Miller, T. W. (A)
Mischer, W. D. (A)
Morrissey, D. J. (A)
Runyon, C. R., Jr. (VA)
Ryan, J. U. C. (A)
Wilson, H. C. (A)
Wilson, L. F. (A)

Yorktown Heights
Matarainen, K. O. (M)

Youngstown
Ackerman, W. W. (A)
Hildyard, J. M. (A)

NEW YORK CITY

Bronx

Abend, I. J. (M)
Abbott, S. L. (A)
Ackerman, M. (A)
Adler, L. L. (A)
Affias, I. M. (M)
Altman, S. S. (A)
Anagnost, A. L. (A)
Arasi, D. (A)
Argintar, H. (A)
Atkin, R. (A)
Balter, I. (A)
Balter, S. A. (A)
Barkey, R. (A)
Beck, D. H. (A)
Beers, Y. (M)
Bendetti, J. (A)
Bennett, H. S. (SM)
Bennett, R. S. (A)
Berger, L. (A)
Bergman, S. (A)
Berkoff, S. (A)
Berman, H. (A)
Bernard, P. (A)
Bernardone, G. S. (A)
Bernstein, J. (A)
Bernstein, S. (A)
Bertero, E. P. (A)
Bloom, W. E. (A)
Bradburd, E. (A)
Bromberg, J. J. (A)
Brownman, H. L. (A)
Busch, W. R. (VA)
Buyer, E. M. (A)
Byrnes, I. F. (SM)
Cilin, L. A. (A)
Cinelli, M. N. (A)
Clark, R. R. (A)
Cohen, A. B. (A)
Conto, J. (A)
Cooperman, P. (A)
Corbett, E. L. (VA)
Cosgrove, T. (A)
Coughlin, J. J. (A)
Cronberg, C. I., Jr. (M)
Cuddy, E. J. (A)
Dammond, H. R. (A)
Davidson, G. M. (A)
Divins, B. (A)
DelVecchio, S. (A)
Doller, S. (A)
Donald, D. D. (SM)
Dorfman, E. (A)
Douglas, D. A. (A)
Dubbs, B. (M)
Dunefsky, M. (A)
Dursht, S. (A)
Einsohn, I. A. (A)
Ellman, M. J. (A)
Emanuel, F. (A)
Engle, V. M. (M)
Farago, J., Jr. (A)
Fazio, J. A. (A)
Federing, A. M. (VA)
Feinman, G. (A)
Fenichel, I. (A)
Fidelman, D. (A)
Fishberg, S. (VA)
Flynn, W. J. (A)
Fonda-Bonardi, G. (A)
Freedman, S. (M)
Freier, J. B. (A)
Frezzolini, D. (VA)
Gardner, D. A. (A)
Gaydos, G. J. (VA)
Gerstein, M. G. (A)
Gillmer, A. H. (A)
Giordano, A. B. (SM)
Gleimer, B. (A)
Glick, J. (A)
Glinert, M. (A)
Goetzl, M. (M)
Goldberg, H. (A)
Goldberg, H. D. (A)
Goldstein, A. D. (A)
Goldstein, S. E. (A)
Goodstein, J. (A)
Grad, H. (A)
Grandizo, L. A. (A)
Greenberg, A. L. (A)
Greenberg, S. (A)
Greenstein, P. (VA)
Gross, A. S. (M)
Gross, S. (A)
Gunderson, R. W. (M)
Guttman, N. X. (A)
Halsall, M. (A)
Harrison, R. I. (A)
Hegel, B. (A)
Henning, R. E. (A)
Herrera, J. C. (A)
Hershler, A. (A)
Hertsch, G. (A)
Hillman, P. L. (A)
Hinrichs, J. H. (A)
Hittner, C. (A)
Holden, M. (A)
Howell, C. A. (A)
Hoyes, V. V. (A)
Hughes, F. J. (A)
Hutson, L. S. (A)
Immen, G. H. (A)
Intiso, J. F. (A)
Jacobi, G. T. (A)
Jacobson, N. (A)
Jasik, C. (A)
Jatlow, J. L. (A)
Kaplan, M. (A)
Kansas, R. (A)
Kantrowitz, P. (A)
Karda, W. O. (A)
Karpeles, M. A. (A)
Kaszerman, P. (A)
Kilian, L. H. (A)
Klein, M. E. (A)
Klein, R. M. (M)
Klemantowitz, W. (A)
Konigstein, M. (A)
Krampel, H. (A)
Krauth, E. A. (M)
Kubelnick, J. (A)
Lerner, L. (A)
Levens, L. M. (A)
Levey, A. W. (M)
Levin, R. (A)
Levine, D. (A)
Lewinski, J. (A)
Lewis, G. (A)
Lichtenstein, M. J. (M)
Lindenberg, S. (M)
Lisman, H. (A)
Loeb, M. (A)
Lopata, H. H. (A)
Lurie, W. B. (M)
Mack, A. (A)
Maken, G. (A)
Mansberg, H. (A)
Martin, B. (A)
Martinez, C. I. (A)
Mazzei, A. L. (A)
McGinnis, F. (M)
McPherson, R. W. (A)
Meyers, J. G. (A)
Michael, H. (A)
Michaels, H. M. (A)
Miller, D. A. (A)
Miner, J. T. (A)
Miner, W. A., Jr. (A)
Moro-Lin, H. (A)

Mural, F. (VA)
Nadler, B. D. (M)
Neidoff, S. (A)
Nelson, E. P. (A)
Neuschaefer, G. C. (A)
O'Connor, R. A. (M)
Olick, J. (A)
Orbach, M. L. (A)
Paradise, L. P. (M)
Paskin, M. (A)
Pellegrinelli, G. L. (A)
Pesce, W. V. (A)
Phillips, D. (A)
Pierce, J. L. (A)
Pizzuti, F. D. (M)
Plonsey, R. (A)
Popkin, J. L. (A)
Rabinowitz, I. M. (A)
Ratner, M. (A)
Rattner, S. (A)
Reeves, J. J. (A)
Reich, P. J. (A)
Reiche, L. P. (A)
Reisman, S. J. (M)
Rocamora, R. L. (A)
Rogers, W. (A)
Rosenberg, S. L. (A)
Rotker, W. (A)
Rubel, S. J. (A)
Rund, L. (A)
Salzberg, A. (A)
Schaller, J. (A)
Schick, W. (A)
Schmidt, C. R. (M)
Schneider, P. (A)
Schwartz, M. P. (A)
Scibilia, S. P. (A)
Seger, L. (VA)
Seldin, L. (A)
Shamis, S. S. (M)
Shatzkin, J. (A)
Shaw, D. (A)
Sherbin, L. E. (A)
Sherman, R. (M)
Sherr, S. (A)
Shulman, I. (A)
Shultz, R. S. (A)
Sicuranza, C. A. (A)
Siegel, B. L. (A)
Sills, M. M. (A)
Smoller, M. (A)
Solzberg, S. (A)
Stahl, J. (M)
Stahl, P. D. (M)
Sterner, L. M. (A)
Storch, H. (A)
Sundberg, A. A. (A)
Swedlow, S. (A)
Taffet, I. (A)
Taffet, M. S. (A)
Taffet, W. (A)
Taylor, S. G. (M)
Thorn, H. (SM)
Tucker, M. H. (A)
Tykulsky, A. (A)
Vallarino, A. R. (A)
Venditto, A. C. (A)
Vorperian, H. (A)
Wachsman, L. B. (A)
Ward, B. R. (A)
Wasserman, D. (A)
Waxler, B. (VA)
Weiland, C. F. V. L. (A)
Weiss, M. M. (M)
Weller, R. I. (A)
Willett, E. (A)
Wichsler, M. S. (A)
Wohl, C. J. (A)
Wolfson, H. (A)
Wong, H. (A)
Zinn, A. W. (A)

Brooklyn

Abrams, J. N. (A)
Agresti, F. (A)
Aguele, A. (A)
Ahrens, G. C. (A)
Aitken, R. A. (M)
Allen, T. (A)
Anderson, C. L. (A)
Anton, N. G. (SM)
Anzalone, C. (A)
Arkus, H. (A)
Aron, M. (M)
Ascione, R. (A)
Auerbacher, W. F. (A)
Axel, P. (A)
Backinoff, B. (A)
Bader, A. (A)
Bahr, R., Jr. (A)
Balton, I. A. (M)
Bambara, J. E. (A)
Baron, A. (A)
Barrack, I. (A)
Baum, S. H. (VA)
Bayer, S. (A)
Becken, E. D. (M)
Beckhardt, T. (A)
Bellare, D. (M)
Benoit, R. C., Jr. (M)
Berger, A. L. (A)
Berger, M. (A)
Berman, R. (M)
Bernstein, C. (A)
Besmertnik, J. (A)
Bierman, H. (A)
Boilen, I. (A)
Borst, J. M. (VA)
Bower, J., Jr. (VA)
Boyle, B. (A)
Bramwell, F. (A)
Bresson, J. (A)
Briskin, H. B. (A)
Broman, H. F. (M)
Brooks, G. (A)
Brown, A. L. (A)
Brown, R. W. (A)
Burk, P. O. (A)
Cahan, L. C. (M)
Canavan, J. J. (M)
Carle, P. V. (A)
Chanes, H. (A)
Charton, S. (A)
Cheifetz, R. M. (A)
Cherry, M. (A)
Chertock, M. (M)
Christopher, E. J. (A)
Climent, L. J. (A)
Cohen, A. (A)
Cohen, G. (A)
Cohen, M. J. (M)
Cohen, S. B. (A)
Conroe, A. H. (A)
Cornfeld, N. J. (A)
Cottrell, B. P. (A)
Craige, T. L. (A)
Curtin, J. N. (M)
Dagavarian, H. O. (A)
D'Agostino, V. F. (A)
Dahlbom, C. A. (M)
Danziger, A. (A)
Davidoff, S. (M)
Davis, H. (A)
Davis, S. (A)
Day, G. (SM)
Deblasio, C. (A)
Decker, S. M. (A)
DeLano, R. B., Jr. (A)
Deloi, D. J. (M)
DeSimone, D. J. (A)
Dettman, M. C. (A)
Deutsch, L. (A)
Deutsch, S. (A)
Diamond, S. (M)
Dibrell, J. W. (M)
Dick, T. M. (A)
Diehl, R. T. (A)
Dieli, F. J. (A)
Dillon, S. K. (A)
DiToro, M. J. (SM)
Dolinko, L. (A)
Dooner, J. L. (A)
Dwork, L. E. (M)
Edelberg, S. (A)
Egert, S. S. (A)
Egolf, R. S. (A)
Eichwald, B. (M)
Epstein, M. (A)
Erdel, S. (A)
Ettenberg, M. (A)
Fairweather, B. A. (A)
Farley, J. A. (A)
Feinstein, J. (A)
Fenn, W. H. (A)
Fialkov, H. (A)
Figlia, J. R. (M)
Fine, S. (A)
Finke, H. A. (M)
Finkelstein, S. M. (A)
Fioravanti, J. S. (A)
Fisch, O. (A)
Fischer, L. G. (A)
Fishbein, M. (A)
Flomenhaft, L. (A)
Florez, M. A. (A)
Flyer, I. N. (A)
Forman, J. B. (A)
Franzel, I. H. (A)
Fraser, J. M. (A)
Frawley, J. E. (A)
French, H. A. (A)
Frieborn, J. K. (A)
Friedman, E. D. (M)
Friedman, H. (A)
Gainen, J. (A)
Geiger, J. R. (A)
Geller, D. (A)
Gellman, H. D. (A)
Gervais, W. A. (A)
Gillette, D. (A)
Glenn, A. B. (SM)
Goldberg, H. (A)
Goldberg, N. (A)
Goldstein, E. (A)
Goodman, S. (A)
Gorczycki, E. (A)
Goronin, A. (A)
Graef, R. L. (VA)
Graf, R. (A)
Graham, W. (A)
Greenberg, D. (A)
Greenblum, C. (A)
Greene, I. (A)
Greene, L. R. (A)
Greenwald, C. (A)
Grelck, H. L. (M)
Grib, B. (A)
Griffing, W. W. (A)
Gross, V. (A)
Gruber, P. (A)
Hachemeister, C. A. (M)
Haertig, M. M. (A)
Halabi, T. (A)
Hancock, P. L. (A)
Harris, L. (M)
Heller, J. I. (SM)
Heller, S. (A)
Hembrooke, E. F. Jr. (VA)
Henning, E. Jr. (A)
Herr, D. L. (SM)
Hertzler, E. A. (M)
Hirshorn, R. W. (A)
Hollis, W. C. (M)
Hopkins, E. J. (VA)
Horowitz, S. (A)
Hyman, A. (A)
Howite, R. (A)
Johansen, A. E. (M)
Jones, H. W. (A)
Jorysz, A. (M)
Joseph, H. M. (A)
Jurek, W. M. (A)
Kahgan, J. J. (A)
Kahn, F. J. (M)
Kahn, H. (A)
Kane, I. M. (A)
Kaplan, I. (A)
Kaplowitz, M. (A)
Kappauf, E. F. (A)
Kappelmann, G. E. (A)
Karmin, I. (A)
Katz, S. (A)
Katzoff, P. (A)
King, R. E. (A)
Kirdahy, E. (M)
Kirishjian, H. H. (A)
Kittler, F. W. (A)
Klepper, A. (A)
Klibaner, B. (A)
Kline, A. (A)
Kline, M. (M)
Krieger, P. (A)
Kritz, J. (M)
Kroessler, A. W. (A)
Kurtz, J. A. (VA)
Laemmel, A. E. (A)
Lack, F. R. (F)
Lake, R. E. (M)
Lapatine, S. (A)
Lapping, A. M. (A)
Lebowitz, L. L. (A)
Lebowitz, R. A. (A)
Lee, F. (A)
Lee, M. (A)
Leifer, M. (A)
Leonard, E. V. (M)
Levi, S. (VA)
Levin, H. S. (A)
Levine, D. J. (A)
Levine, H. (VA)
Levitsky, J. (A)
Levy, L. (VA)
Lewyt, A. M. (SM)
Likel, H. C. (SM)
Lough, J. I. (A)
Love, A. L. (A)
Luskin, B. (A)
Lynch, W. M. (M)
Madey, R. (A)
Maedel, G. F. (SM)
Mandel, M. (A)
Marantz, S. A. (A)
Margosian, J. W. (A)
Margulies, F. (A)
Marino, J. L. (M)
Markinson, I. (A)
Marriott, R. H. (F)
Marshall, S. L. (A)
Maxwell, H. H. (A)
MacLean, W. (A)
Mehlman, S. J. (M)
Meyer, B. C. (A)
Milazzo, S. (M)
Milbourne, S. C. (VA)
Miller, M. L. (VA)
Moore, J. B. (SM)
Moore, W. C. (A)
Morgen, M. (A)
Morrow, J. E., Jr. (A)
Morton, A. R. (SM)
Moskowitz, S. (M)
Moss, J. A. (A)
Mostofsky, D. (A)
Mostov, P. M. (A)
Mucher, G. J. (VA)
Myers, C. J. (A)
Nadel, A. (A)
Nakagawa, S., Jr. (A)
Nechemias, M. (A)
Nelson, H. C. (A)
Newton, A. (A)
Nickerson, F. W. (VA)
Nicolosi, J. (A)
O'Connor, D. G. (A)
Oliner, A. A. (M)
Olsen, O. C. (A)
Oravetz, A. S. (A)
Osbahr, B. F. (A)
Paige, S. (A)
Painting, J. A. (A)
Parsegan, V. L. (SM)
Patel, M. B. (A)
Pelavin, M. H. (A)
Pelitsch, E. J. (A)
Perlman, S. (M)
Petrucelly, V. J. (A)
Platzer, H. L. (A)
Plotkin, M. (A)
Pochmerski, D. (A)
Polak, H. L. (A)
Posner, S. (A)
Prager, M. (A)
Prise, W. J. (A)
Purcell, R. H. (M)
Rabinowitz, M. (A)
Reidel, J. E. (A)
Reiss, A. (A)
Resnicow, L. (A)
Restaino, J. J. (A)
Richter, A. R. (M)
Rivman, L. H. (A)
Robinson, J. D. (A)
Romano, F. J. (A)
Roselli, D. J. (A)
Rosenbaum, A. H. (VA)
Rothbart, A. (A)
Rousku, A. W. (A)
Rowe, I. (A)
Rubenson, J. G. (A)
Rubin, A. (A)
Rubin, S. (A)
Russell, G. M. (A)
Ryan, E. H. (A)
Sabin, A. T. (A)
Sachs, A. (A)
Saffitz, I. M. (A)
Safir, R. (A)
Salzman, D. (A)
Santino, L. (A)
Svalli, F. P. (A)
Scheraga, M. (A)
Schiffman, S. (VA)
Schuchman, N. (A)
Schumacker, A. L. (VA)
Schwalbe, J. H. (A)
Schwartz, P. (A)
Sears, C. B. (A)
Seewald, E. J. (A)
Seidel, H. (A)
Seligsohn, M. (A)
Senauke, A. (SM)
Shapiro, A. (A)
Sheffield, B. (A)
Shenk, E. R. (SM)
Sherman, S. (A)
Shulman, J. (A)
Silver, B. L. (VA)
Sillman, D. (A)
Singer, E. M. (A)
Singer, H. J. (A)
Small, B. (A)
Smith, E. J. (A)
Smith, E. K., Jr. (A)
Smith, R. M. (A)
Smolen, A. (A)
Sobel, A. D. (M)
Soderquist, W. A. (VA)
Squitieri, A. (A)
Stein, E. (A)
Stein, R. S. (A)
Stempler, S. (A)
Stephens, G. F. (A)
Stephenson, H. L. (A)
Strum, R. (A)
Taffuri, M. L. (A)
Talesnick, S. (A)
Talley, D. (SM)
Taylor, I. R. (A)
Tehen, M. F. (A)
Telang, V. S. (M)
Temple, W. J. (A)
Tongue, B. H. (A)
Trees, A. E. (A)
Trimboli, B. J. (A)
Trupiano, J. F. (A)
Turczyn, W. A. (M)
Variano, V. V. (A)
Vergeichik, J. (M)
Vitrogen, D. (A)
Volpe, I. D. (M)
Waicule, D. (A)
Wald, D. (A)
Waller, K. L. (M)
Waller, W. E. (M)
Warshaw, D. (A)
Watine, M. N. (A)
Watson, R. F. (M)
Weber, E. (SM)
Weil, R. T., Jr. (SM)
Weinberg, S. (A)
Weinschel, B. C. (A)
Weinstein, D. C. (A)
Wendroff, M. (A)
Werner, G. L. (M)
Whistler, C. H. (M)
White, R. L. (A)
Whitehead, J. C. (VA)
Winter, D. W. (A)
Wolff, J. (A)
Wolk, N. (A)
Wollman, E. (A)
Wynne, W. M. (VA)
Yankofsky, M. (A)
Yanowitch, M. (A)
Youngren, A. E. (A)
Zaretsky, S. (A)
Zbar, P. B. (M)
Zdan, W. (A)
Zeiger, L. B. (VA)
Zimet, B. L. (A)
Zimmerman, S. (A)
Zupnick, I. N. (A)

Manhattan

Aceves, J. G. (SM)
Adams, G. R. (A)
Adams, M. D. (SM)
Albert, D. (A)
Alexander, L. (VA)
Alexander, S. B. (A)
Allen, M. E. (A)
Allison, J. L. (SM)
Alper, A. D. (A)
Amatneck, K. V. (A)
Amy, E. V. (SM)
Anderson, C. N. (F)
Anderson, L. N. (M)
Anderson, R. E. (A)
Andreasko, J. P. (VA)
Appel, H. W. (SM)
Arany, D. M. (A)
Arditi, M. (SM)
Armstrong, E. H. (F)
Arnett, W. (A)
Arnold, J. W. (SM)
Arnson, L. (SM)
Arnson, R. B. (A)
Austrian, R. B. (SM)
Babcock, S. M. (VA)
Bailey, A. (F)
Bailey, G. W. (SM)
Bailey, R. S. (A)
Baker, G. W. (A)
Bangert, J. T. (A)
Bangs, J. R. (M)
Bannett, D. R. (A)
Bark, A. (M)
Barkley, W. J. (SM)
Barlow, D. S. (A)
Barrett, A. E. (SM)
Baruch, S. N. (A)
Batcheller, A. (SM)
Battison, J. H. (M)
Baum, E. (A)
Bayer, M. (A)
Becchetti, F. J. (F)
Bell, W. L. (A)
Bereza, A. (A)
Berinsky, M. (A)
Berkley, C. (A)
Berler, R. M. (A)
Berstein, J. J. (A)
Bernstein, J. L. (A)
Bertram, A. A. (A)
Binns, J. R. (VA)
Birnbaum, I. (M)
Blachere, B. (A)
Black, D. M. (SM)
Black, E. Jr., (M)
Black, L. D., Jr. (A)
Blackwell, O. B. (F)
Blitzer, R. (M)
Bocharoff, G. M. (VA)
Bode, H. W. (SM)
Bogert, B. P. (A)
Borner, R. C. (A)
Bose, J. H. (VA)
Boss, B. B. (A)
Bouie, W. (A)
Brackmann, W. J. (M)
Bramhall, F. B. (SM)
Braunfeld, M. T. (A)
Braverman, M. (A)
Brenner, B. (VA)
Bresler, D. (A)
Bressler, J. J. (A)
Briggs, L. A. (SM)
Brillouin, L. N. (SM)
Brociner, V. (M)
Brown, A. C. (M)
Brown, D. S. (VA)
Brown, J. (A)
Brown, R. M. (A)
Brown, W. A. R. (A)
Brownell, H. R. (A)
Browning, S. D. (VA)
Brueck, J. O. (A)
Bruggeman, J. T. (A)
Brunet, M. (SM)
Burghard, E. G. (SM)
Burnell, N. (A)
Burton, E. T. (SM)
Busch, C. R. (A)
Byron, M. (A)
Cadicott, E. (A)

Cambridge, C. G. (SM)
Carlebach, W. M. (VA)
Carlin, B. (A)
Caselli, V. J. (A)
Cassell, J. L. (VA)
Castrignano, R. A. (A)
Ceccanti, L. P. (A)
Chalfin, N. L. (A)
Charchian, B. M. (M)
Chemkalis, L. G. (A)
Chick, A. J. (SM)
Chittick, C. (A)
Cohen, E. (A)
Cohn, H. (SM)
Coler, B. A. (A)
Coles, F. A. (SM)
Conrad, M. (A)
Cooley, A. G. (M)
Corbett, C. W. (SM)
Corbin, J. E. (A)
Corwith, H. P. (SM)
Costello, A. W. (A)
Court, L. M. (A)
Cowan, F. A. (SM)
Crandon, L. H. (A)
Cravis, H. (A)
Cruse, A. W. (SM)
Cumming, I. G. (SM)
Cutting, F. (F)
Cybick, J. J. (A)
Darcey, R. J. (A)
Darrell, R. D. (A)
Davey, J. R. (A)
Davidoff, F. (A)
Davidson, W. F. (SM)
Davis, R. F. (A)
Deakin, G. (VA)
Dean, N. J. (A)
DeBilderling, A. (A)
Deloraine, E. M. (F)
DeSoto, C. B. (M)
Deutsch, M. E. (A)
Dewey, G. C. (A)
D'Humy, F. E. (SM)
Dickey, D. W. (M)
Dickieson, A. C. (SM)
Dietrich, F. (VA)
Dietzold, R. L. (SM)
Doba, S., Jr. (A)
Donnelly, J. T. (A)
Donovan, W. E. (SM)
Dorf, R. H. (A)
Dorfman, N. G. (A)
Douglas, R. H. (M)
Dowell, K. P. (A)
Downing, H. L. (VA)
Drake, J. B. (A)
Dubinin, A. V. (SM)
Duncan, R. L. (SM)
Dunlap, K. S. (A)
Dunn, G. (F)
Durkee, A. L. (VA)
Duskis, E. F. (A)
Duttera, W. S. (SM)
Dwork, B. M. (A)
Eastman, P. J. (VA)
Easton, I. G. (SM)
Echtman, L. (A)
Eglin, J. M. (A)
Ehrlich, C. N. (VA)
Eichel, J. M. (SM)
Elliott, A. G. (M)
Elliott, S. J. (VA)
Elspas, B. (A)
Evans, H. W. (SM)
Everett, J. E. (M)
Fabricant, P. (VA)
Facey, J. W. (VA)
Fahsing, W. F. (A)
Fallert, R. J. (A)
Fein, B. (A)
Feldt, R. (M)
Fergusson, E. S. (A)
Ferguson, J. G. (SM)
Fernandez, J. A. (A)
Finch, W. G. H. (SM)
Finn, P. L. (A)
Fish, P. (SM)
Fogel, M. H. (A)
Fowler, J. A., III (A)
Frank, R. L. (M)
Franke, H. C. (A)
Freed, A. (A)
Freed, R. D. (A)
Freeman, L. C. (A)
Freeman, O. S., Jr. (A)
Freundlich, M. M. (SM)
Friebele, E. J. (VA)
Friedland, M. S. (A)
Friedman, O. (A)
Fritschi, W. W. (A)
Gaillard, R. L. (A)
Gams, T. C. (A)
Ganzenhuber, J. H. (A)
Garcelon, J. (A)
Gilbert, J. J. (VA)
Gilcher, V. (A)
Gillen, R. G. (A)
Ginsberg, A. J. (A)
Given, I. K. (M)
Glass, M. S. (VA)
Goeser, J. N. (A)
Gofencheffer, M. (A)
Golbert, S. A. (A)
Goldman, H. (A)
Goldsmith, A. N. (F)
Goldwater, F. J. (A)
Goodstein, L. P. (A)
Gordon, T. M., Jr. (A)
Gould, G. B. (A)
Graham, R. E. (M)
Grant, S. P. (A)
Gray, R. E. (VA)
Gray, R. P. (A)
Greenbaum, J. R. (A)
Greig, J. H. (A)
Grob, B. (M)
Gronner, A. (A)
Grosselfinger, W. H. (SM)
Grossfield, S. (A)
Gruen, W. J. (M)
Grumet, A. (A)
Grunberg, B. (A)
Gulack, J. G. (A)
Gunther, H. S. (A)
Gunzbourg, P. M. (SM)
Gurevics, D. (A)
Habich, R. C. (A)
Hafemeister, E. F. (M)
Hallborg, H. E. (F)
Hallenbeck, F. J. (SM)
Handelman, R. B. (A)
Handelsman, M. (M)
Hanson, F. E. (SM)
Hara, B. (VA)
Hargrave, E. T. (A)
Harmatz, H. J. (A)
Harold, M. (A)
Harper, H. (A)
Harries, J. H. O. (SM)
Harris, W. C. (A)
Hartley, S. H. (M)
Havens, B. L. (SM)
Hayami, F. Y. (A)
Helt, S. (A)
Hernandez, C. F. (A)
Herr, F. J. (A)
Herrmann, F. J. (M)
Hertzberg, A. (A)
Hill, E. B. (A)
Hillyer, C., Jr. (A)
Hodgson, A. R., Jr. (M)
Hoenig, W. (A)
Honeiser, V. P. (A)
Hopkins, G. C. (M)
Hough, J. B. (A)
Hovgaard, O. M. (SM)
Hubbard, V. Y. (A)
Hunchberger, A. P. (VA)
Hughes, V. W. (M)
Huth, A. G. (M)
Hyman, A. (A)
Ignatowsky, P. (A)
Ingram, S. B. (SM)
Isele, H. A. (A)
Iskenderian, H. P. (M)
Jacobs, C. F. (A)
Jacobson, R. I. (M)
Jacoby, D. L. (M)
Jaffe, D. L. (SM)
Jamieson, F. C. (A)
Jaronski, T. (A)
Jelen, M. J. (SM)
Johnson, C. M. (A)
Jones, W. J. (M)
Jonker, W. E. (A)
Juanille, J. J. (A)
Kagalwala, A. F. (M)
Kahn, A. (A)
Kahrilas, P. (A)
Kain, G. H. (A)
Kallmann, H. E. (SM)
Kao, C. C. (M)
Keith, C. R. (A)
Kelly, H. P. (A)
Kelvin, W. (A)
Kendall, J. A. (A)
Kent, R. A. (A)
Kiebert, M. V. (SM)
Kievit, B. (SM)
King, F. (SM)
Kinne, C. B. (A)
Kinsburg, B. J. (M)
Kishi, H. J. (A)
Knaul, J. E. (A)
Kohlhaas, H. T. (SM)
Kopecky, G. F. (A)
Korin, S. B. (A)
Kraemer, G. S. (SM)
Kramer, A. (A)
Krause, C. K. (VA)
Kudo, F. M. (A)
Kuehn, R. L. (A)
Kunc, F. (VA)
Kurrelmeyer, B. (SM)
Labin, E. (SM)
Ladner, H. (VA)
Latham, J. C. (A)
Launer, D. M. (A)
Layton, B. (A)
Lebel, C. J. (SM)
Ledermann, F. (A)
Lee, P. (A)
Lee, V. C. (A)
Leeds, I. N. (A)
Lentz, J. J. (A)
Leslie, F. (VA)
Levin, S. A. (VA)
Levy, S. L. (A)
Liguori, A. (A)
Limen, M. L. (A)
Lindner, F. A. (A)
Locker, M. (A)
Loomis, A. L. (F)
Lopez, J. B. (A)
Lovenstein, A. J. (A)
Lowman, R. V. (A)
Lubell, R. (A)
Lubianecki, M. (A)
Lukas, W. (A)
Lukashewitz, P. (A)
Lun, M. J. (A)
Lurye, J. R. (A)
Lynch, J. A. (A)
MacDonald, W. A. (SM)
Mack, P. W. (M)
Mackey, R. W. (A)
Magin, J. J. (A)
Maher, R. A. (M)
Malin, J. J. (A)
Mallalieu, F. R. (A)
Mann, F. J. (M)
Marchand, N. (M)
Mardock, R. W. (A)
Markel, A. (A)
Marolda, J. (A)
Marriner, A. W. (A)
Marrison, W. A. (SM)
Martin, A. E. (M)
Martin, D. (VA)
Martin, H. B. (SM)
Martin, R. E. (A)
Martowicz, C. T. (A)
Marx, E. A. (A)
Massy, F. M. (A)
Mautner, R. S. (M)
Mayer, C. R. (A)
Mayer, E. E. (F)
Maxwell, D. E. (SM)
McCoy, E. W., Jr. (A)
McCoy, J. C. (SM)
McCutchen, B. S. (F)
McDavitt, M. B. (M)
McGee, F. M. (M)
McGuigan, J. H. (A)
McIlwain, K. (SM)
McLaren, I. H. (A)
McNally, J. O. (SM)
McProud, C. G. (M)
McSweeny, R. (SM)
Meece, E. W. (A)
Mezger, G. (VA)
Meyerson, A. H. (M)
Miller, J. R. (A)
Millar, J. Z. (SM)
Miller, K. W. (A)
Miller, S. C. (SM)
Mitchell, T. H. (SM)
Mohr, H. M. (A)
Morse, L. R. (A)
Morse, S. P. (A)
Moy, W. T. (A)
Mueller, H. (A)
Munn, A. J. (A)
Murray, H. J., Jr. (A)
Naidamast, D. (A)
Natrajan, R. (A)
Neel, R. I. (A)
Neuman, G. J. (A)
Nikonow, J. P. (A)
Nissim, W. (M)
Nyquist, H. (SM)
Odarenko, T. M. (SM)
Oettinger, A. G. (A)
Oliver, B. M. (M)
O'Neill, L. H. (A)
Osiatinsky, L. (SM)
Ostrolenk, S. (VA)
Owen, C. H. (VA)
Packard, G. N. (M)
Paddon, J. W. (SM)
Paine, D. C. (A)
Paley, W. D. (A)
Panzen, W. (A)
Parisier, M. (A)
Parker, O. B. (SM)
Parks, H. F. (A)
Pataki, E. (A)
Patel, R. V. (A)
Pease, R. M. (SM)
Pegram, G. B. (VA)
Pellegrini, H. A. (A)
Pelzman, L. (A)
Peskin, E. (A)
Peterson, E. (SM)
Petraglia, F. A. (A)
Phelps, R. B. (A)
Phinney, E. D. (SM)
Pincus, L. (A)
Pineau, N. T., Sr. (M)
Pineles, M. S. (A)
Plotkin, M. N. (A)
Polk, M. L. (A)
Ponsolle, W. J. (VA)
Poor, W. E. (VA)
Poppele, J. R. (SM)
Potter, J. T. (A)
Powell, L. H. (VA)
Preston, L. S. (A)
Prisament, N. T. (A)
Purgett, L. J. (SM)
Rabbin, I. G. (A)
Ragazzini, J. R. (M)
Rambo, L. W. (A)
Ramsey, W. S. (A)
Rashduni, H. D. (A)
Reichardt, J. P. (A)
Reiss, L. (A)
Rendell, G. (A)
Reoch, A. E. (F)
Resler, C. (A)
Rich, F. N. (A)
Richman, D. (A)
Rider, J. F. (VA)
Rieber, F. (SM)
Riley, D. H. (A)
Rips, E. M. (A)
Roberts, W. W. (A)
Robinson, H. A. (SM)
Rocke, A. (A)
Rod, R. L. (M)
Rogoff, M. (M)
Roller, W. P. (A)
Romnes, H. I. (SM)
Rose, A. F. (SM)
Rose, T. T. (A)
Rosenbaum, E. (A)
Rosenbaum, G. (A)
Rosenblatt, P. (A)
Rosenthal, A. H. (A)
Rosin, A. (A)
Ross, G. A. (A)
Ross, U. B. (M)
Rossoff, A. L. (A)
Rubin, S. (M)
Rusinow, K. (A)
Rynkowsky, N. (A)
Salazar, L. A. (A)
Sanders, R. G. (A)
Sarnoff, D. (F)
Saslaw, M. R. (M)
Scal, R. K. F. (M)
Schacher, D. L. (A)
Scheiner, M. L. (A)
Schelkunoff, S. A. (F)
Schmied, J. W. (VA)
Scholz, C. E. (SM)
Schubert, W. (A)
Schulman, J. R. (A)
Schwartz, H. T. (A)
Schwartz, S. (A)
Schwartz, T. F. (A)
Schwarz, R. J. (A)
Seeley, S. W. (VA)
Seidman, G. (A)
Seklemian, R. S. (A)
Shackleton, S. P. (SM)
Shamos, M. H. (M)
Shapiro, L. C. (SM)
Shaw, R. C. (SM)
Shecklen, G. F. (A)
Sheer, C. (SM)
Shelley, E. F. (A)
Sher, F. D. (A)
Sherman, J. B. (VA)
Shotliff, L. A. (A)
Shmoys, J. (A)
Simon, E. J. (F)
Simpson, S. H., Jr. (VA)
Singleton, H. E. (A)
Sira, M. A., Jr. (A)
Skelley, C. L. (A)
Skrobisch, A. (A)
Slate, M. W. (A)
Smith, A. V. (M)
Smith, C. A. (SM)
Smith, D. P. (A)
Smith, G. M. (VA)
Smith, P. A. (A)
Smith, P. W. (A)
Smith, R. J., Jr. (A)
Snyder, E. P. (A)
Snyder, S. J. (M)
Sokolski, E. A. (A)
Sollie, S. A. (SM)
Sonnemann, H. (A)
Spangenberg, L. F. (M)
Sparks, S. (A)
Sperr, A. E. (A)
Spitalny, M. (A)
Sprung, J. (A)
Stanton, L. J. (A)
Starr, A. R. (A)
Staschover, L. (A)
Steinman, B. (A)
Stenhammer, H. T. (A)
Stephenson, S. S., Jr. (A)
Sterling, H. T. (A)
Stern, M. K. (A)
Stern, R. M. (A)
Stevens, A. M. (F)
Stoll, V. B. (A)
Stone, E. W. (F)
Streeter, E. C., Jr. (A)
Streifus, C. A. (A)
Sumerlin, W. T. (M)
Svedlow, J. D. (A)
Szilasi, A. (A)
Taffet, W. (A)
Talley, T. J., III (M)
Tatarsky, M. (A)
Taussig, C. W. (VA)
Tavaniotis, C. (A)
Taylor, C. H. (F)
Taylor, W. H. (SM)
Thomas, D. E. (SM)
Tidd, W. H. (SM)
Tingley, G. R. (A)
Toeppen, M. K. (SM)
Torian, J. T. (A)
Traver, H. A. (M)
Trevor, J. B., Jr. (M)
Turner, A. (VA)
Turner, T. B. (A)
Tuttle, C. W. (A)
Ulm, E. H. (M)
Upton, D. J. (A)
Vadersen, C. W. (M)
Valladares, J. A. (M)
Van Dissel, G. F. (SM)
Van Dyck, A. F. (F)
Vaughan, C. (A)
Vehling, R. H. (VA)
Vincent, E. P. (A)
Voegler, R. A. (M)
Von Baudissin, J. (VA)
Wagner, R. J., Jr. (A)
Walker, D. F. (A)
Walsh, A. L. (A)
Walsh, J. B. (A)
Warnick, G. H. (A)
Wassa, G. M. (A)
Watkins, C. E. (M)
Weible, N. R. (VA)
Weil, K. (A)
Weinstein, F. (A)
Weiss, G. (A)
Wendelken, G. J. (A)
West, J. L. (A)
Weyer, E. R. (A)
White, M. F. (A)
Whiting, H. L. (A)
Wiley, J. L. (A)
Williams, A. B. (M)
Williams, R. C. G. (SM)
Williams, S. B. (A)
Willis, F. H. (VA)
Willits, R. L. (A)
Wilson, I. G. (SM)
Winner, L. (M)
Wojciechowski, B. M. (M)
Wolf, S. K. (SM)
Wolfthal, D. A. (A)
Wolk, A. B. (A)
Wood, I. E. (A)
Wood, R. A. (A)
Worthen, G. B. (A)
Wouk, V. (M)
Wright, S. B. (SM)
Yamasaki, A. A. (A)
Yelsey, B. (A)
Yieh, T. (M)
Youdin, M. (M)
Young, C. H. (SM)
Zadeh, L. (A)
Zauderer, J. (A)
Zeamans, H. R. (VA)
Zuckerberg, H. (A)
Zvorist, H. (A)
Zwick, G. (A)

QUEENS

Arverne, L. I.
Foschi, E. J. (A)

Astoria, L. I.
Frangoulis, S. I. (A)
Guarrera, J. J. (A)
Iversen, R. J. (SM)
Jackson, B. A. (M)
Kung, L. (A)
Nuss, S. L., Jr. (A)
Parant, N. (A)
Puntin, E. J. (VA)
Schwab, D. (M)
Stolze, W. J. (A)
Wojiechowski, E. T. (A)

Bayside, L. I.
Anspach, K. E. (A)
Babcock, W. C. (M)
Battle, R. P. (A)
Black, P. B. (M)
Bowman, D. F. (M)

Dalton, J. L. (VA)
Delany, F. J. (A)
Dinga, E. W. (A)
Ellefson, B. S. (F)
Farel, V. M. (SM)
Farr, K. E. (M)
Fickett, M. M. (A)
Frink, F. W. (SM)
Fultz, M. E. (SM)
Gatti, W. (A)
Gray, J. E. (A)
Hayes, K. V. (A)
Hayward, G. H. (A)
Holt, H. W. (SM)
Israel, J. O. (M)
Janis, P. (SM)
Larson, G. C. (SM)
Lyons, W. (SM)
McKee, L. H. (M)
Moncton, H. S. (M)
Riddle, E. R. (VA)
Robinett, L. L., Jr. (A)
Troxler, L. J. (SM)
Tyson, B. F. (VA)

Beechhurst, L. I.
Battin, D. C. (A)
Benson, C. L. (A)
Schacht, E. L. (M)

Bellaire, L. I.
Dye, R. E. (A)

Belle Harbor, L. I.
Mahland, E. W. (A)
Lurch, E. N. (M)
Rhodes, C. E. (A)
Weber, V. J. (A)

Bellerose, L.I.
Mertz, P. (SM)
Schwartz, L. S. (SM)

Bellport, L.I.
Cowan, F. P. (M)

College Point, L. I.
Del Giorno, A. E. (A)
Hoffman, R. A. (A)
Stiepel, G. W. (A)
Wappler, A. C. (A)

Corona, L. I.
Johl, M. J. (A)
Silbar, J. I. (A)

Douglas Manor, L.I.
Apolant, R. J. (A)

Douglaston, L. I.
Anderson, E. C. (SM)
Batchelor, R. R. (SM)
Batcher, R. R. (SM)
Bristol, R. W. (A)
Cox, W. W. (A)
Grover, H. G. (SM)
Hirsch, C. J. (SM)
Long, F. A. (A)
McClellan, G. B. (SM)
Mensur, F. (M)
Merten, D. J. S. (M)
Ruvin, A. E. (A)
Shanck, R. B. (SM)

East Hills, L.I.
Harges, M. T. (M)

Elmhurst, L. I.
Auditore, C. J. (A)
Bawer, L. I. (A)
Beidler, S. (A)
Berge, R. P. (A)
Carlan, L. B. (A)
Depp, W. A. (SM)
Erdman, A. (A)
Galione, W. J. (A)
Halpern, W. (A)
Hlipala, N. (A)
Kolding, A. R. (A)
Norton, H. N. (A)
Rosenberg, L. (A)
Siegmund, E. L. (A)
Stuhler, R. E. (A)
Thulin, C. W. (A)

Far Rockaway, L. I.
Brown, W. (M)
Frum, A. (A)
Gallay, H. (VA)
Haynes, N. M. (M)
Schoenfeld, M. (M)
Williams, R. J. (A)

Floral Park, L. I.
Acheson, M. A. (F)
Eberle, E. E. (A)
Goodwin, V. D. (VA)
Gunnell, G. T. (VA)
Hammerschmidt, A. L. (SM)
Hoffman, E. J. (SM)
Ishler, H. K. (M)
Keen, A. W. (SM)
Loynes, O. H. (VA)
Marshall, T. A. (A)
Mooney, V. J. (A)
Nixon, G. M. (VA)
Novikoff, E. G. (A)
Parchman, J. B. (M)
Spittal, W. R. (A)
Stokes, B. C. (A)

Flushing, L. I.
Angevine, R. A. (A)
Aull, W., Jr. (SM)
Barber, A. W. (VA)
Bennett, H. W. (A)
Breeden, F. C. (M)
Burns, E. P. (A)
Cater, J. R. (A)
Chambers, G. R. (A)
Chapin, R. S. (A)
Cohen, A. L. (A)
Cohn, I. H. (A)
Dimond, J. (A)
Dolnick, A. (M)
Dong, J. G. (A)
Eisaman, L. C. (A)
Findley, P. B. (SM)
Flynn, J. G. (A)
Forrest, G. E. (A)
Gable, N. P. (A)
Gehrke, F. (A)
Gray, M. C. (A)
Grazda, E. E. (A)
Grossman, M. (A)
Hackenberg, J. H. (M)
Hall, R. C. (A)
Hamilton, G. R. (A)
Hanna, R. E., Jr. (A)
Hatfield, L. N. (SM)
Hutter, R. G. E. (SM)
Jensen, R. M. (A)
Kanz, W. J. (M)
Kaparoff, P. S. (A)
Kerver, N. E. (A)
Koehler, E. F. (A)
Lebert, A. W. (VA)
Lenfest, G. C., Jr. (A)
Leskinen, J. I. (A)
Levine, S. (M)
Mangini, F. A., Jr. (A)
Markowitz, J. S. (A)
McClintock, R. K. (SM)
Melancon, N. J. (A)
Millman, J. (A)
Moerman, N. A. (M)
Newhoffer, F. L. (A)
Nittoli, A. J. (A)
Nittoli, V. A. (A)
Novick, R. (A)
Olson, O. F. (M)
Odessey, P. H. (A)
Orth, F. (A)
Oszy, A. J. (A)
O'Neil, G. D. (SM)
Pater, O. C. (A)
Rennenkampf, L. J. (M)
Rothstein, M. (A)
Russ, B. H. (VA)
Ryan, J. A. (A)
Sanial, A. J. (SM)
Schlegel, R. A. (A)
Schlegel, W. R. (A)
Schoenfeld, K. (VA)
Shaw, L. L. (A)
Silver, B. (A)
Sieminski, E. (A)
Stockman, W. E. (M)
Sutter, A. W. (A)
Taylor, F. E. (A)
Tepper, H. H. (A)
Thropp, C. H. (VA)
Waag, J. P., Jr. (A)
White, E. S. (A)
Witten, A. L. (A)
Wolf, H. A. (A)

Forest Hills, L. I.
Ander, J. (A)
Black, D. G., Jr. (A)
Brown, W. R. (M)
Bunim, G. C. (A)
Busignies, H. (F)
Canavaciol, F. E. (SM)
Carlat, B. (A)
Chamberlain, A. B. (F)
Della-Corte, J. P. (SM)
Dietz, H. G. (A)
Dow, J. B. (F)
Drechsler, F. P. (A)
Farkas, F. S. (SM)
Finke, R. S. (A)
Frankel, S. (SM)
Freeman, E. E. (SM)
Gilman, B. S. (A)
Grieg, D. D. (SM)
Henley, E. M. (A)
Hogan, J. V. L. (F)
Horak, R. J. (A)
Howard, R. (A)
Karel, G. M. (A)
Lehr, P. (A)
Levine, A. M. (A)
Lovette, E. S. (A)
Marcinko, F. C. (A)
Marcuvitz, N. (VA)
McDonough, V. T. (A)
Molday, B. V. (SM)
Morawetz, F. (M)
Onyskin, M. (A)
Oram, D. K. (VA)
Schooley, C. E. (SM)
Shmurak, B. (M)
Sokoloff, P. W. (SM)
Toepel, W. A. (A)
Weston, S. (M)
Wild, J. J. (A)

Glendale, L. I.
Seitz, H. J. (A)

Hollis, L. I.
Caputo, N. J. (VA)
Chubbuck, E. L., Jr. (M)
Clemens, G. J. (A)
Ehlert, F. C. (A)
Goldan, T. J. (A)
Gunn, D. W. (M)
Rose, B. (A)
Schlafly, H. J., Jr. (SM)
Simonds, R. E. (A)
Squire, F. M. (A)
Stellwagen, F. W. (VA)

Jackson Heights, L. I.
Barco, A. A. (SM)
Bauser, S. F., Jr. (A)
Blankmeyer, W. A. (A)
Bronzo, J. A. (A)
Clough, R. F. (A)
Coundjeris, A. (A)
Ehlers, D. E. (A)
Ehrbar, R. D. (SM)
Finch, T. R. (M)
Helpert, L. R. (A)
Hertzberg, R. E. (A)
Hickman, C. N. (VA)
Hollabaugh, M. G. (M)
Kelley, L. A. (VA)
Klein, M. M. (A)
Koci, J. (A)
Malone, J. P., Jr. (M)
Martin, S. J. (A)
Miller, H. M. (A)
Mitchell, W. M. (A)
Nevitt, H. J. B. (SM)
Nidzyn, J. J. (A)
Petitjean, A. E. (A)
Pleasure, M. (M)
Rehberg, C. F. (A)
Richman, W. (A)
Richter, E. (A)
Riechers, H. (A)
Rumpel, C. H. (VA)
Schoenfeld, G. (A)
Sherwood, H. R. (M)
Simons, B. H. (A)
Snyder, N. (SM)
Thatcher, T. W. (A)
Van Horn, R. H. (M)
Werzyn, E. A. (A)
Zaslavsky, S. (A)

Jamaica
Baller, H. (A)
Baldwin, T. W. (A)
Brock, W. T. (A)
Heindel, H. J. (SM)
Hilty, R. M. (A)
Jackson, W. J. (A)
Kipp, L. (A)
Langevin, R. Z. (A)
Lewinstein, M. (M)
Markantes, P. N. (A)
Melman, I. J. (A)
Parsons, B. L. (A)
Smith, F. W., Jr. (A)
Tawney, G. L. (SM)
Thienpont, M. C. (A)
White, J. D., Jr. (VA)

Kew Gardens
Altman, D. (A)
Barnes, L. (A)
Bluestone, E. S. (M)
Brilmayer, E. W. (A)
Broga, F. J. (M)
Davis, C. F. (A)
Davis, G. (A)
Drucker, R. (A)
Elsea, I. W. (M)
Espenschied, L. (F)
Freedman, M. M. (M)
Graham, R. E. (A)
Jewett, R. A. (A)
Kahal, R. (A)
Kronenberg, M. H. (A)
Parker, H. W. (A)
Ruben, A. S. (VA)
Saunders, C. L. (A)
Schaffir, W. B. (A)
Shapiro, D. L. (M)
Susskind, S. E. M. (A)
Tierney, W. L. (SM)
Trotter, W. E. (A)
Wheeler, W. R. (A)
Wiesner, L. (A)

Laurelton
Aha, R. S. (A)
Francoeur, G. R. (A)
Glaser, M. (A)
Lurie, E. M. (VA)

Little Neck
Bosman, E. H. (M)
Darwin, F. A. (SM)
Dean, C. E. (SM)
Dettinger, D. (M)
DeWitt, D. (A)
DiBlasi, J. (M)
Dunning, O. M. (SM)
Karlson, J. E. (M)
Kunicky, B. F. (VA)
Lane, C. C. (A)
Larick, S. H. (M)
Nurmela, G. E. (A)
Pacent, L. G. (F)
Page, C. E. (A)
Palter, N. (A)
Potts, T. J., Jr. (A)
Salati, O. M. (SM)
Sproul, S. (A)
Wilson, W. H. (M)
Zimmer, E. W. (A)

L. I. City
Bagno, S. M. (VA)
Baran, M. (A)
Borman, E. C. (A)
Damon, F. A. (A)
Dorman, J. (A)
Easton, A. (A)
Janiszewski, F. A. (A)
Kramer, S. (A)
Krcik, J. F. (A)
Limansky, I. (A)
Martin, L. (SM)
Muth, J., Jr. (A)
Poehler, H. (A)
Pollack, L. (A)
Schure, A. (A)
Soderquist, W. A. (VA)
Wilhelm, H. T. (M)
Youngblood, I. J. (VA)
Zaret, M. E. (A)

Malba, L.I.
Sorenson, E. (A)

Maspeth, L. I.
Biberacher, R. (A)
Grumich, J. (VA)
Kline, L. M., Jr. (A)
Lauraitis, A. J. (A)
Powell, T. (A)
Tullius, A. B. (A)

Middle Village, L. I.
Camp, S. N. (A)
Clark, H. L. (M)
Marx, J. (A)
Reinhard, F. C. (A)

Ozone Park, L. I.
Fuco, P. J. (A)
Mehr, A. (A)
Mellard, J. (A)
Simon, L. (A)

Queens
Gabelman, I. J. (A)

Queens Village
Adams, B. N. (M)
Behrens, H. G. (A)
Berg, S. (M)
Dravneek, W. R. (M)
Duval, M. V. (A)
Griemsmann, J. W. E. (A)
Hansen, E. L. (VA)
Kodera, C. F. (A)
Lord, G. C. (A)
Maurer, C. D. (A)
Metzger, S. (M)
Moore, C. E. (M)
Moreno, C. A. (A)
Sypher, E. L., Jr. (VA)
Stangl, F. P. (M)
Tennis, J. E. (M)
Uzzell, W. C. (A)
White, C. E. (A)
Yeager, J. R. (A)

Rego Park, L. I.
Black, H. S. (F)
Bullington, K. (A)
Gellert, A. W. (A)
McLinden, J. E., Jr. (A)
Silver, M. (A)

Richmond Hill, L. I.
Armentano, J. A. (A)
Berger, S. J. (A)
Brown, E. L. (A)
Charlton, J. (A)
Corl, J. L. (A)
Egan, W. G. (A)
Ellis, H. J., Jr. (A)
Hannahs, W. H. (M)
Jacobs, F. (VA)
Knuth, H. G., Jr. (A)
Masnik, M., Jr. (A)
Mesa, J. O. (SM)
Oakes, R. E. (A)
Parzen, B. (A)
Picardy, P. (A)
Sharp, W. O. (M)
Smith, C. R. (SM)
Turnow, W. F. (A)
Wolf, H. (A)
Woodruff, E. T. (A)

Ridgewood, L. I.
Brodsky, J. L. (A)
La Via, J. (A)

Rosedale, L. I.
Byrnes, J. F. (A)
Levenstein, H. (A)

Saint Albans, L. I.
Behr, J. (A)
Cooper, C. W. (A)
Parker, H. L. (A)
Reese, J. S. (SM)
Rothenberg, S. M. (VA)
Salz, N. P. (A)
Smedes, R. L. (A)
Spool, S. (A)

South Ozone Park
Samoluk, P. (A)

Springfield Gardens, L. I.
Berthold, R. V. (A)
Green, M. (M)
Kolz, C. T., Jr. (A)

Sunnyside, L. I.
Cohen, J. E. (A)
Skobel, F. (A)

Whitestone, L. I.
Aldrich, A. J. (A)
Cetrone, V. C. (A)
Di Cecio, S. A. (A)
Levy, R. J. (M)
Smith, J. W. (A)

Woodhaven, L. I.
Clinton, R. E. (A)
Day, E. C. (A)
Derganc, W. (A)
Hintz, R. T. (VA)
Reitlinger, A. (A)

Woodside, L. I.
Balamuth, L. (A)
Ebert, J. E. (A)
Keith, W. S. (A)
Middleton, R. G. (A)
Ostheimer, E. J. (A)
Rehberg, L. H. (A)
Reuman, W. H. (VA)
Stavitski, L. X. (A)
Thieblemont, A. H. (VA)
Truhlar, G. (A)
Wade, E. (M)
Wilkinson, R. J. (A)

Staten Island

Auriema, R. C. (A)
Avins, J. (A)
Barden, W. S. (SM)
Davis, W. R. (A)
Ellis, R. I. (A)
Embrechts, A. C. (VA)
Fornari, R. P. (A)
Gallonio, A. (A)
Gunther, F. A. (SM)
Haugk, W. V. (A)
Kelly, L. J. (A)
Kostriza, J. A. (M)
Levine, M. E. (M)
Lowney, D. J., Jr. (A)
Mack, E. J. (A)
Marcy, H. T. (M)
Reeves, J. F. (A)
Rodwin, G. (SM)
Ruedisueli, R. W. (A)
Schillinger, R. F. (A)
St. Cyr, A. L. (A)
Stewart, J. A. (A)
Taylor, J. C. (A)

NORTH CAROLINA

Albermarle
Hatley, M. T., Jr. (A)

Ashville
Greer, P. A. (A)
Morgan, Z. K., Jr. (A)

Burlington
Apple, H. L. (M)
Hornaday, G. L. (A)
Turrini, J. J. (M)

Cary
Estelle, W. E. (M)

Chapel Hill
Caldwell, E. E. (A)

Charlotte
Carey, J. G. (A)
Caudle, L. L., Jr. (M)
Hicklin, W. H., Jr. (A)
Kickler, E. M. (A)
Minor, M. J. (A)
Ramsey, R. W. (VA)
Sheats, H. W., Jr. (A)
Stewart, A. E. (VA)

Clinton
Vann, I. M., Jr. (A)

Dongan Hills
Hower, P. A. (M)

Draper
Swinney, J. G. C., Jr. (M)

Durham
Bartlett, G. W. (A)
Goddard, E. G. (M)
Seeley, W. J. (SM)

El'zabethtown
Baird, J. W. (A)

Farmville
Palmer, W. G. (A)

Fayetteville
Lechman, O. (VA)

Fort Bragg
Deal, W. R. (A)
Spainhour, E. S., Jr. (A)

Graham
Andrews, J. R. (M)

Greensboro
Bivins, W. P. (A)
Briggs, D. K. (A)
Dillon, P. (M)
Harrell, L. B. (A)
Hastings, C. L. (A)
Marteena, J. M. (VA)
McMasters, P. A. (A)
Norwood, C. A. (A)
Webb, H. E., Jr. (A)

Hickory
Morrison, C. R. (A)

Lake Toxaway
Miller, A. T. (A)

Marion
Martin, H. C. (A)

Nags Head
Graham, D. A. (A)

Nashville
Leonard, A. B. (A)

Raleigh
Brennecke, C. G. (M)
Brown, S. H. (A)
Browning, W. P. (VA)
Carley, W. S. (M)
Dickinson, W. T. (A)
Hulick, H., Jr. (VA)
Kahn, S. H. (A)
Porter, B. E. (A)
Pereda, E. F. (A)
Reynolds, R. H. (A)
Seagraves, W. P. (A)
Willard, F. R. (M)
Wilson, W. (F)

Reidsville
Alexander, L. H. (M)

Rural Hall
Peters, R. A. (A)

Salisbury
Ramsey, M. F. (A)
Watson, C. B. (A)

Shelby
Smith, S. S. (M)
Van Sleen, R. (A)

Thomasville
Sugg, L. M. (A)

Wadesboro
Thomas, J. H. (A)

Washington
Jowdy, M. (VA)

Wendell
Todd, M. C. (M)

Wilmington
Peebles, N. A. (A)
Ryssy, J. W. (VA)

Wilson
Day, J. L. (A)

Winston-Salem
Arnold, H. H. (A)
Beard, C. E. (VA)
Bregar, J. C. (A)
Buranich, G. F. (A)
Burley, F. E. (SM)
Coan, J. O., Jr. (A)
Corderman, R. C. (SM)
Crouch, J. B. (A)
Duke, H. (A)
Gegenheimer, W. C. (A)
Grassia, C. C. (A)
Hedrick, P. F. (M)
Heimburger, W. M. (A)
Ivester, H. E. (A)
King, L. C. (A)
Lanford, W. E. (A)
Mitchell, D. H. (A)
Neher, H. T. (A)
Palmer, C. W. (SM)
Porter, G. R. (A)
Smith, C. M., Jr. (M)
Stadheim, K. (A)
Stouse, L. E., Jr. (A)
Welsh, W. A. (A)

NORTH DAKOTA

Bismark
Murdoch, J. P. (A)
Nelson, I. (M)
Vavra, H. G. (A)

Dickinson
Weeks, I. B. (A)

Fargo
Bey, W. I. (A)
Dodge, W. A., Jr. (A)
Hetland, J. M. (VA)
Kirkpatrick, E. L. (M)

Fessenden
Zobel, E. R. (A)

Grand Forks
Thomforde, C. (M)

Hampden
Harpster, W. T. (A)

Jamestown
Amoo, L. R. (A)

OHIO

Akron
Batcheldor, W. E. (A)
Berg, B. (M)
Berkey, R. H. (A)
Bock, A. W. (A)
Bosomworth, G. P. (VA)
Braden, W. V. (A)
Brennan, L. J. (VA)
Burtner, R. L. (M)
Caulkins, F. A. (A)
Colletti, N. (A)
Hegbar, H. R. (SM)
Huffman, E. B. (A)
Jones, J. W. (A)
Kime, J. M. (A)
Larson, N. E. (A)
Price, L. A. (A)
Redmond, J. F. (A)
Reynier, E. H. (A)
Rhine, J. A. (A)
Schott, S. (A)
Shewchik, S. (A)
Shively, H. G. (A)
Skocpol, C. L. (A)
Smith, J. E. (A)
Smith, P. C. (SM)
Trego, D. G. (A)
Van Horn, I. H. (M)
Waldvogel, J. (M)
Wittig, W. L. (A)

Alliance
Deming, A. F. (A)
Ray, S. E. (A)
Smith, A. E. (A)
Unger, J. W. (A)

Amherst
Young, M. L. (A)

Ashtabula
Bernato, F. N. (A)
Cornwell, R. G. (A)
Morrison, H. F. (A)
Munsell, R. S. (A)
Wightman, E. E. (A)

Athens
Green, D. B. (VA)

Aurora Village
Johns, L. T. (M)

Avon Lake
Dobosy, J. F. (A)

Barberton
Austin, A. O. (F)

Bay Village
Cain, J. D. (A)
Humiston, H. A. (A)
Schneider, P. (A)
Smith, C. W. (A)
Swanker, W. C. (A)

Bedford
Helber, C. A. (A)
Jerome, W. R. (VA)

Belle Fontaine
Weiss, H. (A)

Berea
Epperson, J. B. (SM)
Sanderson, R. B. (A)
Zajackowski, J. A. (A)

Bexley
Brooke, E. F. (M)

Blanchester
Saville, H. F. (A)

Bluffton
Maxon, J. S. (M)

Brecksville
Banfer, K. J. (VA)
Clark, H. L. (A)
Csenich, J. E. (A)
Hutton, W. G. (SM)
Makinson, G. E. (VA)
Ulrich, J. F. (VA)

Bucyrus
Lahman, G. H. (A)

Canfield
Poulson, W. A. (A)

Canton
Duff, J. E. (A)
Koenrich, J. L. (A)
Leist, L. G. (M)
Matzinger, J. R. (M)
Phillips, W. M. (VA)
Regen, R. R. (A)
Roderick, E. R. (A)
Walker, N. S. (VA)

Centerburg
Dixon, E. D. (A)

Centerville
Piety, E. W. (M)

Chagrin Falls
Noon, J. R. (A)
Sanborn, C. B., Jr. (A)

Chardon
Mumma, H. A., Jr. (A)

Cheviot
Dresch, R. (A)
Spinner, L. N. (A)

Chillicothe
Morris, C. A. (A)

Cincinnati
Adams, R. F. (A)
Ashman, A. B. (A)
Baylor, A. D. (M)
Bereskin, A. B. (SM)
Bissonette, A. J. (M)
Boothe, A. M. (A)
Bopp, C. (M)
Borders, C. R. (A)
Bowman, J. Y. (A)
Brockway, R. M. (A)
Brouse, H. L. (SM)
Bussard, E. J. H. (SM)
Canady, D. R. (A)
Clement, L. M. (F)
Crosley, P., Jr. (SM)
Davis, G. A. (A)
Duncan, J. R. (M)
Ebbeler, J. R. (A)
Emmerich, W. S. (A)
Emmerling, E. J. (A)
Fenstermacher, A. L. (A)
Ferrell, D. (A)
Fischer, R. E. (M)
Fowler, R. W. (A)
Fox, W. F. (M)
Frommer, J. C. (A)
Garoutte, C. D. (A)
Giannetto, C. (M)
Gieringer, C. K. (SM)
Gillette, A. D. (VA)
Gimon, E. E. (M)
Haehnle, C. G. (A)
Hancock, H. E. (M)
Herb, A. P. (A)
Himes, H. D. (A)
Hoeltge, E. J. (A)
Hultgren, R. D. (M)
James, D. C. (M)
Jenkins, E. F. (M)
Jones, E. M. (M)
Jordan, D. M. (VA)
Kilgour, C. E. (SM)
Kimbrel, G. M. (M)
King, F. W., Jr. (M)
Kiss, J. S. (M)
Knoblaugh, A. F. (M)
Kolks, R. H. (VA)
Konkle, P. J. (M)
Kuck, B. M. (A)
Lantzer, F. N. (M)
Ledbetter, J. B. (A)
Lehnoff, R. G. (M)
Lepple, H. (M)
Magee, H. A. (A)
Matthews, L. M. (A)
McDonald, J. M. (M)
Miller, L. W. (A)
Montgomery, W. D. (M)
Mork, R. P. (M)
Novy, E. W. (M)
Osterbrock, W. C. (SM)
Overman, C. I. (A)
Peters, M. K. (A)
Quitter, J. P. (M)
Ramey, R. A. (M)
Reid, J. D. (SM)
Richardson, D. (A)
Robson, C. A. (A)
Rockwell, R. J. (F)
Schenk, R. L. (M)
Schneider, C. A. (A)
Schroeder, W. R. (VA)
Schwesinger, W. L. (VA)
Shirk, W. B. (M)
Stubbins, W. F. (A)
Symons, W. E. (M)
Taylor, G. O. (A)
Thornell, J. H. (A)
Turrell, R. M. (M)
Umbach, L., Jr. (A)
Uphaus, R. H. (A)
Wahl, A. C. (M)
Weber, C. E. (M)
Wedig, F. L., Jr. (M)
Whitehouse, J. E. (SM)
Williamson, G. F. (M)
Wissel, F. A. (SM)
Witt, L. F. (M)
Young, P. A. (M)
Zimov, L. R. (A)
Zlatin, N. (A)

Clayton
Sickets, W. H., Jr. (M)

Cleveland
Ackerman, E. K. (SM)
Akers, W. F. (A)
Ballasch, L. J. (A)
Blue, C. L. (A)
Bossard, G. L. (M)
Bousky, S. (SM)
Boyd, B. (M)
Briggs, R. F. (M)
Brinkman, H. A. (A)
Caskey, H. B. (M)
Chatterton, L. N. (VA)
Collins, D. L. (M)
Cornell, P. M. (A)
Cornshey, R. W. (A)
David, B. W. (SM)
Delany, R. H. (A)
Deuring, W. G., Jr. (A)
Dittenberger, R. J. (A)
Ehrbar, E. J. (A)
Elmendorf, D. E. (A)
Erf, H. A. (M)
Feldsteen, J. J. (A)
Fiorilli, N. J. (A)
Geczi, J. (VA)
George, W. C. (A)
Guarino, P. A. (SM)
Guthrie, H. G. (A)
Haden, J. C. (A)
Hansen, R. E. (A)
Heinzelman, G. J. (M)
Hoff, H. B. (M)
Hunter, J. L. (M)
Jaberg, A., Jr. (A)
Jansen, W. R. (A)
Jerauld, A. N. (VA)
Jira, J. W. (M)
Keithley, J. F. (M)
Kres, A. J. (A)
Leemon, W. (A)
McCollister, D. R. (A)
McIlwain, McD. S. (A)
Nace, A. S. (SM)
Neal, N. A. (A)
Nesbitt, A. D. (M)
Novak, A. J. W. (A)
Oestermeyer, C. F. (A)
Okeson, H. B. (VA)
Page, H. C. (SM)
Pierce, D. E. (A)
Pierce, R. M. (SM)
Plakadis, A. P. (VA)
Reitz, J. R. (A)
Rickards, W. H. (A)
Roads, W. A. (A)
Rockwell, W. S. (A)
Roehrer, C. R., Jr. (A)
Schilling, M. O. (M)
Sherman, K. S. (A)
Smart, T. E. (M)
Smith, C. E. (SM)
Snedeker, M. L. (M)
Somerville, H. V. (A)
Stoffel, L. L. (A)
Sutto, J. F. (A)
Tomcik, D. J. (A)
Watson, B. S. (A)
Weiss, W. A. (A)
Welman, V. A. (A)
Williams, H. C. (M)
Winter, L. L. (M)
Young, P. A. (M)
Zelle, J. (M)

Cleveland Heights
Allen, H. B. (A)
Baerwald, H. G. (M)
Begun, S. J. (SM)
Brown, W. J. (SM)
Fox, R. A. (SM)
Friedberg, M. R. (M)
Friedman, T. B. (M)
Hoover, P. L. (SM)
Keachie, J. H. (VA)
Leonard, S. E. (SM)
Massa, F. (VA)
O'Gara, J. J. (A)
Pritchard, D. A. (A)
Scofield, P. F. (SM)
Scott, E. P. (A)

Clyde
Gilbert, L. H. (VA)

Columbus
Anthony, G. E. (A)
Aronoff, M. (A)
Bacon, J. (A)
Bauer, W. (M)
Benedict, G. R. (A)
Bennett, L. C. (A)
Berriman, M. (A)
Boehnker, C. H. (A)
Boone, E. M. (SM)
Buccione, V. S. (A)
Buck, D. B., Jr. (A)
Campbell, J. R. (A)
Carl, J. E. (A)
Cleckner, D. C. (A)
Coffland, A. E. (A)
Clutter, E. C. (A)
Daugherty, W. M. (A)
Davis, W. L. (M)
De Connick, L. G. (M)
Ebright, J. L. (A)
Eckardt, F. (A)
Fouty, R. A. (A)
Gamble, E. H. (M)
Garing, H. R. (M)
Griffith, B. D. (A)
Guernsey, E. D. (A)
Hayden, J. R. (A)
Heinrich, R. E. (A)
Higgy, R. C. (SM)
Huffman, D. A. (A)
Ishmael, O. L. (A)
Jacques, R. B. (M)
Jaeger, J. H. (M)
Jones, E. A. (A)
Kahn, D. A. (A)
Keagy, W. R., Jr. (A)
Kraus, J. D. (SM)
Krausz, A. (A)
Kroeger, F. B. (A)
Lamp, L. B. (A)
Lodge, L. L. (A)
Lowers, C. E. (A)
Lucas, H. L. (A)
McCleece, H. M. (A)

Merrill, R. L. (A)
Merz, R. E. (A)
Minor, W. C. (M)
Morris, G. W. (VA)
Mueller, G. E. (SM)
Nafzger, L. H. (VA)
Patton, R. F. (A)
Paul, I. (A)
Payne, D. T. (A)
Rasnak, J. J., Jr. (A)
Reynolds, F. D. (A)
Ribner, M. (A)
Rife, W. E. (A)
Schoedinger, R. G. (A)
Schumacher, C. M. (A)
Trinter, V. E. (A)
Turner, E. S. (A)
Watts, R. J. (A)
Weimer, F. C. (M)
Winkle, L. V. (A)
Wright, P. C., Jr. (A)
Yen, J. T. (A)
Young, D. A. (VA)
Young, H. R. (A)
Young, P. D. (A)

Conneaut
Chorpening, C. M. (M)
Dvorsky, A. L. (A)
Keskinen, A. R. (M)
Morrell, G. A., Jr. (A)

Coshocton
Myers, O. C. (A)
Schroder, R. D. (A)

Cove
Gahm, W. L. (A)

Cuyahoga Falls
Davis, H. P. (A)
Menelevy, C. A. (M)
Miller, R. F. (A)
Toman, W. J. V. (M)
Wildermuth, J. L., Jr. (A)

Damascus
Tary, J. (A)

Dayton
Adams, E. L. (SM)
Albano, J. A. (M)
Allen, F. W. (A)
Amrhein, O. C. (A)
Andrew, G. W. (SM)
Anglin, D. (A)
Antman, M. A. (M)
Aschbacher, S. J. (A)
Astholz, P. T. (M)
Bailey, K. D. (A)
Baker, W. H. (A)
Bassett, D. M. (A)
Beams, D. W. (A)
Behnke, A. O. (M)
Berens, G. E. (M)
Bertram, S. (SM)
Biddle, W. G. (M)
Blasi, E. A. (SM)
Boeckerman, L. F. (M)
Braden, P. F. (A)
Braverman, N. (A)
Brothers, A. L., Jr. (M)
Brown, A. S. (SM)
Buehler, M. E. (A)
Campbell, C. C. (A)
Carpantier, V. J. (M)
Cherpeski, R. P. (M)
Chevally, E. A. (M)
Colbert, C. (A)
Conn, J. A. (A)
Conover, R. E. (A)
Conrad, C. G. (M)
Cooper, E. H. (M)
Cooper, Z. R. (A)
Copp, R. S. (A)
Cunningham, L. W. (A)
De Jonghe, J. J. (A)
Dennis, J. L. (SM)
Derey, C. H. (A)
Desch, J. R. (A)
Dicke, A. H. (A)
Dietrich, D. J. (M)
Drake, R. E. (SM)
Duckwitz, W. G. (M)
Durant, J. V. (M)
Dybdal, M. B. (A)
Easley, L. E. (M)
Eaton, W. G. (SM)
Eckert, C. C. (SM)
Ely, C. H. (A)
Ensall, T. (M)
Eppenstein, H. F. (M)
Finders, R. M. (A)
Finocharo, J. J. (M)
Forcier, R. A. (A)
Frankenstein, G. (M)
Friedman, H. (A)
Gardner, B. R. (A)
General, J. (SM)
Gibbons, T. J. (M)
Gilfilen, L. J. (M)
Glan, G. (M)
Goldfarb, B. J. (A)
Goldman, A. (M)
Greger, H. H. (A)
Griffing, B. L. (SM)
Gulden, E. V. (A)
Hagstrum, W. R. (A)
Hallman, L. B., Jr. (SM)
Hauser, P. D. (VA)
Hearsum, D. R. (A)
Helldoerfer, C. S. (M)
Henderson, A. B. (M)
Hendricks, L. A. (SM)
Henning, E. S. (A)
Heyd, J. W. (A)
Hill, M. A. (M)
Hilsabeck, D. M. (M)
Hinman, W. H. (A)
Hites, C. E. (A)
Hollaway, F. L. (SM)
Hull, R. S. (A)
Hummel, J. F. (A)
Ittelson, R. W. (A)
Jacobs, M. (SM)
James, R. L. (M)
Kantrowe, J. H. (A)
Keller, C. N. (A)
Kern, J. I. (A)
Kesler, C. K. (A)
Kester, R. E. (A)
Keto, J. E. (SM)
Kidd, G. B. (VA)
Kilheffer, L. D. (VA)
Kleinman, J. M. (A)
Klopf, J. A. (A)
Knauss, H. P. (M)
Knight, A. R. (SM)
Koenig, P. E. (SM)
Kovski, J. J. (M)
Kuhlmen, P. W. (VA)
Lahn, F. C. (A)
Langston, G. A. (A)
Laschever, N. L. (A)
Lauth, R. E. (A)
Lawrance, R. T. (A)
Lawrence, J. T. (M)
Lawson, S. A. (A)
Levine, D. (M)
Littell, C. C., Jr. (A)
Lloyd, L. H. (M)
Long, L. E. (M)
Long, R. E. (M)
Lord, A. S. (A)
Maier, O. C. (VA)
Manley, T. M. (A)
Marshall, C. J. (SM)
McCoppin, E. R. (A)
McLennan, M. A. (M)
Mead, W. L. (A)
Merley, G. A. (A)
Meth, I. (A)
Miller, K. K. (M)
Moore, W. E. (A)
Mumma, R. E. (A)
Murray, P. R. (SM)
Nelson, N. A. (A)
Newsome, E. G. (A)
Nighfenhelser, K. W. (A)
Noble, H. V. (SM)
Noble, J. C. (M)
Oebels, C. J. (A)
Ohmart, P. E. (M)
Overholt, R., Jr. (VA)
Owen, H. W. (M)
Oyster, D. E. (M)
Parker, A. P. (VA)
Perley, A. D. (A)
Perper, L. (A)
Peters, A. L., Jr. (VA)
Pile, D. H. (M)
Pollack, P. (A
Rappaport, G. (SM)
Reintjes, I. C. (A)
Retter, C. T. (VA)
Richmond, L. P. (SM)
Riley, B. R. (A)
Rogers, A. J. (A)
Root, L. W. (M)
Rounds, J. M. (A)
Ruble, H. E. (A)
Rudner, M. A. (A)
Rychlik, R. F. (A)
Schantz, G. W. (A)
Scheer, G. H., Jr. (SM)
Schoenberger, W. J. (M)
Schommer, G. R. (A)
Schram, S. M., Jr. (A)
Schutz, G. C. (M)
Sen, W. J. (SM)
Senn, P. J. (M)
Sennert, H. G. (M)
Sherman, J. M. (A)
Siek, J. R. (A)
Siff, R. G. (A)
Simon, J. N. (A)
Sinder, A. (A)
Speer, J. H. (A)
Springer, P. W. (M)
Stegner, V. J. (M)
Sturtz, S. L. (M)
Sullivan, W. L. (A)
Syancara, V. J. (A)
Tarbell, G. E. (M)
Taylor, P. B. (SM)
Tipton, V. L., Jr. (A)
Trimble, D. (A)
Vendely, B. (A)
Vollrath, W. W. (M)
Walcutt, R. P. (A)
Watton, A., Jr. (SM)
Watts, G. J. (A)
Webb, R. C. (A)
Wedin, A. G. (SM)
Weimer, L. M. (A)
Weis, C. F. (A)
Weissman, S. (M)
Welch, F. R. (A)
Welker, J. W. (A)
Wells, M. M. (SM)
Wells, M. T. (M)
Whitlock, R. S. (A)
Wiegert, P. G., Jr. (A)
Wieland, E. S. (A)
Wilkie, H. (SM)
Winston, C. B. (A)
Wolford, C. E. (A)
Wong, M.-S. (A)
Yolles, J. (SM)
Young, M. M. (SM)
Zimmerman, R. F. (M)

East Cleveland
Blount, R. (M)
Lawrence, J. C. (A)
Schuneman, C. F. (M)
Viton, E. J. (A)

East Liverpool
Pickering, C. K. (A)

Elmira
Hinderer, E. F. (A)

Elyria
Finegold, I. (A)
Mull, H. R. (A)

Euclid
Reeves, H. J. (A)
Summers, W. P. (A)

Fairfield
Mayer, I. S. (VA)
Schuster, H. E. (A)
Showen, L. (M)
Vance, W. H., Jr. (M)

Findlay
Smith, E. C. (A)

Fostoria
Bishop, B. E. (A)
Summers, W. C. (A)

Fremont
Risenburg, L. C. (A)
Swartzlander, G. W. (A)

Galion
Blashfield, W. H. (A)
Crissinger, W. W. (A)
Shuey, P. F. (M)

Gates Mills
Heintz, R. M. (F)

Granville
Clark, J. V. (A)
Marlow, W. C., Jr. (VA)

Greenfield
Clark, N. C. (A)

Greentown
Myers, W. D. (A)

Grove City
Barbee, V. A. (A)

Hamilton
Purdy, J. A. (A)
Staege, S. A. (VA)
Wear, J. (A)

Hillsboro
Sloan, C. B. (M)

Hudson
Buhl, W. T. (VA)
Hill, J. S. (A)

Ironton
Loftis, H. J. (VA)

Kent
George, E. M. (M)

Kenton
Lounsberry, E. P. (A)

Lakewood
Benkelman, G. F. (SM)
Bidlack, C. S. (VA)
Bowditch, F. T. (M)
Draper, C. A. (A)
Driver, J. P. (A)
Dutton, C. E. (VA)
Flack, S. G. (VA)
Fletcher, E. S. (SM)
Friswold, F. A. (A)
Gresslin, C. H. (A)
Hamman, G. B. (VA)
Horton, W. A., Jr. (A)
Jacob, W. P. (M)
Kline, R. L. (A)
Reed, P. B. (M)
Shandy, G. P. (M)
Sulstad, H. D. (AM)
Wells, M. (A)

Lancaster
Ancell, J. E. (A)
Eddey, E. E. (A)

Lima
Hunter, D. J. (A)
Mershon, C. L. (A)

Lorain
Cox, R. C. (A)
Goodell, W. A. (A)
Heisner, D. A. (M)
Herrick, R. H. (SM)
Huge, H. M. (A)
Kauffman, H. C. (M)
Phillips, C. W. (A)
Romoser, P. E. (A)
Van Deusen, R. K. (A)

Louisville
Roberts, R. E. (A)

Lyndhurst
Grossmann, J. J. (M)

Mansfield
Kissel, M. M. (A)

Maple Heights
Bean, R. N. (A)
Grostick, G. E. (VA)
Walker, F. R. (A)

Marietta
Manley, E. (VA)

Mason
Blackwood, J. E. (A)
Morse, C. (A)
Walker, R. E. (A)

Massillon
Burckhart, L. K. (A)
Schwab, C. B. (VA)

Maumee
Long, R. L. (A)

Medina
Lippert, G. R. (A)

Miamisburg
Drake, R. L. (SM)

Middletown
Christener, E. N. (VA)

Millersport
Storck, H. C. (M)

Mingo Junction
Crisante, A. E. (VA)

Mogadore
Du Bois, W. R. (VA)

Mt. Healthy
Bass, H. (M)
Holst, P. F. G. (SM)

New Carlisle
Lower, R. (SM)
Pittenger, C. H. (A)

Niles
Coleman, R. M. (A)

North Canton
Stahl, M. D. (VA)

North Olmsted
Kennedy, D. D. (M)

Norwood
Brelsford, H. (A)
Nitchals, J. L. (A)
Witt, R. (A)

Oberlin
Denny, W. B. (A)
Howe, C. E. (M)

Olmsted
Mock, W. C., Jr. (M)

Osborn
Archer, C. J. (M)
Baer, C. E. (M)
Dann, J. A. (A)
Ebert, H. P. (A)
Lambert, J. S. (M)
McRae, A. H. (M)
Nelson, V. G. (M)
Sides, J. D. (A)
Thurston, M. O. (A)
Varga, M. J., Jr. (A)

Ottawa Hills
Keller, C. A. R. (A)

Oxford
Fessler, A. L. (A)

Painesville
Plaisted, R. J. (A)

Parma
Dick, C. P. (A)
Hartman, A. E. (A)
Pranitch, J. (A)
Schindler, R. W. (A)

Peninsula
Bear, N. (A)

Piqua
Sprinkle, R. E. (M)

Portsmouth
Myers, M. L. (A)

Proctorville
Flowers, J., Jr. (A)

Rocky River
Douglass, J. D. (A)
Marsal, P. (M)
Whipple, G. D. (M)

Rossmoyne
Murphy, R. (A)

Saint Clairsville
Gaston, E. E. (M)

Sandusky
Derrick, W. A. (A)
James, A. (A)
Kenyon, H. S. (VA)
Wild, J. H. (A)

Shaker Heights
Gotschall, G. T. (A)
Oestermeyer, C. F. (A)
Pritchard, W. S. (A)
Seidman, S. M. (A)
Teplany, A. J. (A)

Silverton
Alberts, W. S. (M)
Bertram, M. A. (A)
Kleine, R. C. (M)
Schulte, R. J. (A)

Solon
Westbrook, R. D. (A)

Springfield
Bell, A. L. (SM)
Cory, R. W. (A)
Cronin, W. M. (M)
Davis, C. R. (A)
Littler, R. C. (A)
Schuster, R. R. (A)
Stolzenbach, R. W. (M)

Steubenville
Troesch, J. M. (VA)

Stow
Andresen, G. J. C. (A)

Strongsville
Morton, G. E. (A)

Tallmadge
Shaffer, R. C. (A)

Terrace Park
Jordan, J. F. (M)

Tiffin
Hartman, R. E. (A)

Tippecanoe
Chandler, A. M. (A)

Toledo
Beins, J. K. (A)
Bitter, A. R. (VA)
Botticher, G. H. L. (A)
Brown, W. R. (A)
Bryam, E. T. (A)
Collis, H. O. (A)

Conrad, K. (A)
Dunlap, J. D. (A)
Galambos, L. G. (A)
Garn, A. A. (A)
Hawley, F. S. (A)
Huber, P. (VA)
Joehlin, N. C. (A)
Keck, M. W. (M)
Ketcham, A. R. (M)
Kotlewski, J. P. (A)
Larson, R. G. (A)
Line, F. M. (A)
Mathias, B. B. (A)
Neuert, H. L. (VA)
Okun, A. M. (M)
Plummer, J. H. (M)
Powers, D. A. (M)
Rees, V. C. (A)
Rowe, H. N. (A)
Schaefer, J. H. (A)
Sheehan, F. J. (A)
Stringfellow, W. M. (VA)
Thomson, C. R. (M)
Webb, G. N. (A)
Zink, H. F. (A)

Troy
Rench, C. F. (A)

Uhrichsville
Charlton, V. E. (A)

Union
Apple, R. C. (VA)

University Heights
Klein, M. D. (A)
Schramm, F. B. (M)

Vandalia
Ackerman, S. L. (M)

Van Wert
Conley, W. H. (A)

Warren
Kinney, R. V. (A)
Marzullo, S. (A)
Shoemaker, W. F. (A)

Waynesville
Burdine, W. G. (A)
Smith, D. I. (A)
Wilde, A. J. (SM)

Wellington
Hannum, E. W. (A)

Westerville
Woodward, R. O. (A)

Willoughby
Harris, F. (A)
McClellan, L. W. (A)

Wilmington
Whiting, R. J. (A)

Wooster
Dalbey, W. O. (A)

Worthington
Emmons, C. J. (M)
Friedman, S. (M)
Shirk, A. B. (A)

Wyoming
Bolenbaugh, R. K. (M)
Foster, A. P. (M)
Foster, D. (M)

Xenia
Anderson, C. W. (VA)
Baylis, F. E. (M)
Chamberlain, J. E. (M)
Doran, R. J. (M)
Nordlund, R. J. (M)

Yellow Springs
Carr, D. L. (A)
Cohoon, B. C. (A)

Youngstown
Dieringer, F. A. (VA)
Ebert, H. J. (A)
Hershberger, W. O. (A)
Ogram, R. L. (A)
Phillips, R. G. (A)
Selke, G. H. (A)
Wilcomb, E. F. (A)

OKLAHOMA

Bartlesville
Goetz, L. P. (M)
Hensley, W. A. (M)
McMillan, F. L., Jr. (M)
Thomas, M. E. (A)
Peterson, G. (SM)
Piety, R. G. (VA)
Tilley, A. E. (M)

Bethany
Hill, W. M. (A)
Marrinah, H. J. (A)

Broken Arrow
North, R. C., Jr. (A)

Carnegie
Schaefer, R. K. (A)

Cushing
Jeske, H. O. (A)

Enid
Dalrymple, I. N. (A)

Norman
Farrar, C. L. (M)
Tuma, G. (A)

Oklahoma City
Ashby, R. H. (A)
Crippen, E. G. (A)
Easum, C. M. (A)
Ebner, W. H. (A)
Edwards, C. V. (A)
Freeland, R. R. (A)
Harp, C. E. (A)
Herrmann, F. (VA)
Jackson, J. H. (A)
Lyons, E. F. (A)
Ott, J. H. (A)
Patterson, G. D. (A)
Phillips, H. E. (A)
Russell, G. D. (A)
Shaeffer, C. F. (VA)
Spooner, A. J. (A)
Thomas, M. W. (A)

Pawhuska
Fisher, F. E. (A)

Shawnee
Ricciotti, S. (M)

Stillwater
Blackman, B. A. (A)
Cawood, J. L. (A)
Fristoe, H. (M)
Jones, H. L. (SM)
Oboukhoff, N. M. (SM)
Smith, F. G., Jr. (A)

Tulsa
Born, W. T. (VA)
Day, C. E. (M)
Dikeman, B. (A)
Doll, W. R. (A)
Durham, E. R. (A)
Gilmartin, T. (M)
Hadley, C. F. (M)
Harper, F. N. (A)
Hawkins, J. E. (A)
Hawley, P. F. (A)
Hidy, J. H. (M)
Kauhl, C. J. (A)
McManis, L. B. (A)
Miller, J. W. (M)
Silverman, D. (A)
Stinson, L. W. (VA)

Woodward
Drake, H. L. (A)

OREGON

Albany
Davidson, H. A. (A)

Astoria
Ellis, P. V. (A)

Corvallis
Albert, A. L. (SM)
Ballard, B. J. (A)
Brock, R. L. (A)
Feikert, G. S. (VA)
Haley, J. C., Jr. (A)
Kofoid, M. J. (SM)
Magnusson, P. C. (M)
McMillan, F. O. (SM)
Smith, A. V. (A)
Starr, E. C. (A)
Yunker, E. A. (SM)

Eugene
Clarke, W. L. (A)
Hoppe, P. R. (A)
McCready, S. W. (A)

Garden Home
Sturley, G. (A)

Garibaldi
Mackey, C. D. (A)

Hood River
Kiyokawa, S. (A)

Klamath Falls
Chandler, H. J. (A)
Cramer, K. H. (A)
Woodward, C. (A)

McMinnville
Anderson, C. M. (A)
Fender, K. L. (A)

Medford
Burnside, C. A. (A)
Walker, V. G. (VA)

Milwaukie
Endicott, H. L. (M)
Spoelstra, H. E. (A)

Nehalem
Keenan, S. G. (A)

Junction City
Reetz, L. W. (A)

Oswego
Church, P. K. (A)
Lund, C. W. (SM)

Philomath
Harvey, L. A. (A)

Portland
Andrews, L. K. (A)
Ashworth, N. P. (A)
Belleville, L. M. (M)
Biggerstaff, W. F. (A)
Bookwalter, L. S. (VA)
Brittain, V. M. (A)
Brown, F. M. (VA)
Brown, O. A. (A)
Calnon, D. C., Jr. (A)
Campbell, W. L. (A)
Carter, S. T. (A)
Christenson, C. K. (A)
Cohen, B. B. (A)
Collette, J. H. (A)
Curry, W. H. (A)
Cutting, W. A. (M)
Deardorff, R. W. (SM)
Ditzler, D. (A)
Doherty, D. E. (A)
Duba, L. (A)
Eastlund, L. C. (A)
Edmonds, S. C. (A)
Ellis, D. G. (A)
Ellison, G. C., Jr. (A)
Fay, F. H. (VA)
Foster, J. C. (M)
Griese, R. H. (A)
Hargreaves, R. F. (A)
Herrmann, T. A. (A)
Holtzman, M. (M)
Hood, F. D. (M)
Horseman, T. E. (A)
James, T. W. (A)
Johnson, K. C. (M)
Jones, R. W. (A)
Kearns, J. L. (A)
Kennington, W. W. (A)
Krieger, H. (M)
Larsen, L. J. (A)
MacMillan, R. A. (A)
Maisel, W. A. (A)
Marsa, A. R. (A)
McAllister, D. E. (A)
McCann, F. H. (M)
McCoy, R. E. (M)
McKay, W. M. (VA)
Meissner, E. R. (M)
Miller, F. E. (M)
Miller, V. F. (A)
Morey, A. M. (M)
Murdock, M. J. (A)
Paul, B. R. (VA)
Pittard, F. L. (A)
Randall, H. L. (A)
Richardson, W. E. (M)
Richmond, A. E. (M)
Riley, J. C. (A)
Ritter, H. C. (A)
Rogers, E. J. (A)
Sasser, W. L. (A)
Schmitt, G. W. (A)
Scott, E. D. (SM)
Sells, G. B. (VA)
Shipley, W. W., Jr. (A)
Singleton, H. C. (SM)
Smith, D. E. (VA)
Smith, F. W. (A)
Spaulding, L. R. (M)
Steele, O. A. (M)
Steinke, R. R. (M)
Sturtevant, H. (M)
Thomson, A. (A)
Thompson, E. M. (A)
Tunturi, A. R. (A)
Vassallo, W. H. (A)
Veek, P. E. (A)
Viles, F. M., Jr. (A)
Webber, W. B. (A)
Weeks, R. L. (A)
White, L. C. (M)
Winkler, L. R. (VA)

Salem
Burroughs, J. D. (A)
Morrow, R. E. (A)

Springfield
Maupin, A. A., Jr. (A)

Warrenton
Knotts, R. B. (A)

PENNSYLVANIA

Abington
Smith, N. F., Jr. (VA)

Allentown
Hamaty, L. A. (A)
Moose, L. F. (A)
Newhard, C. E. (M)
Nitschke, N. E. (A)
Ottens, R. C. (A)
Pollard, C. L. (A)
Smith, R. T. (A)
Taylor, R. R. (VA)
Tooker, H. A. (A)
Young, C. S. (VA)
Zartman, I. F. (M)

Altoona
Alter, J. M. (A)
Douglass, C. F. (A)

Ambler
Closson, L. E. (SM)

Ardmore
Hamilton, G. (VA)

Ardsley
Hoffmann, E. H. (M)

Aspinwall
Uleman, T. (M)

Avalon
Bennett, P. C. (A)

Bakerstown
Mag, A. (VA)

Bala
Lakatos, L. L. (VA)

Bala-Cynwyd
Butts, H. H. (M)
Faries, W. R. (M)
Julstedt, E. C. (A)

Bedford
Jefferies, D. W. (A)
Middleton, W. W. (A)

Bellfonte
Eurdus, H. W. (A)

Berwyn
Phelan, L. T. (A)

Bethlehem
Agocs, W. B. (A)
Clark, J. F., Jr. (SM)
Epstein, A. S. (A)
Griffis, J. E. (A)
Gucker, G. B. (A)
Hartman, E. D. (M)
Holetz, A. C. (M)
Karakash, J. J. (A)
Mode, D. E. (SM)
Prichett, P. P. (A)

Bloomsburg
Galbreath, J. R. (A)

Blue Bell
Brown, R. D., Jr. (VA)

Braddock
Zygmunt, H. J. (M)

Bradford
Craumer, H. S. (A)

Bridgeport
James, E. W. (A)

Bridgeville
Adkins, J. M. (M)

Brookville
Cummings, J. C. (M)
Miller, R. C. (M)
Porsch, A. W. (M)
Smith, W. H. (M)

Bywood
Boghosian, W. H. (M)

Camp Hill
Knerr, G. R. (A)
Peffer, R. M. (A)

Canonsburg
Nikas, G. J. (A)

Carlisle
Hill, B. C., Jr. (A)
Meyers, K. D. (A)
Minnich, E. L. (M)
Samuelson, W. H. E. (A)
Van Gavree, R. L. (A)

Carlton
O'Brien, F. E. (A)

Chester
Ruggiero, R. J. (A)
Tisdale, J. M. (A)
Yetter, E. W. (M)

Chestnut Hill
Bradley, W. E. (SM)
Woods, L. J. (SM)
Wyeth, F. H. (A)

Cheswick
Bossart, P. N. (SM)

Clarks Summit
Mack, D. W. (VA)

Clearfield
Benner, T. A. (M)
Bolton, S. W. (VA)
Boyd, J. C. (M)
Curley, D. C. (M)
Diehl, W. F. (F)
Fulmer, J. R., Jr. (A)
Haley, A. J. (A)
Thomas, J. E. (A)
Wilson, M. G. (M)

Clifton Heights
Warshaw, J. (M)

Collingdale
Merwin, R. E. (A)
Shallcross, D. H. (A)

Conestoga
Landis, C. G. (A)

Connellsville
Gallo, J. M. (A)

Conshohocken
Guinan, J. J. (A)

Cornwells Heights
Brewer, A. H., Jr. (A)

Cynwyd
Doughty, D. R. (M)
Sunstein, D. E. (M)

Darby
Bycer, B. B. (A)

Dauphin
Reisman, E. (A)

Dillsburg
Ryesky, S. (M)

Downingtown
Rappaport, H. (A)

Doylestown
Ansley, A. C. (VA)
Hargens, C. W., III (A)
Moyer, L. K. (VA)

Dresher
Ellis, W. G. (SM)

Drexel Hill
Dengate, C. D. (A)
Gleason, H. H. (SM)
Lewis, G. (VA)
Maginnis, W. P. (SM)
Miller, H. G. (A)
Pitts, W. L. (M)
Sharples, A. R. (VA)
Warshaw, H. D. (M)

Duquesne
Brannen, P. M. (A)
Murcek, S. J. (VA)

East Greenville
Pell, W. F., Jr. (VA)

East Lansdowne
Trainer, M. A. (VA)

Easton
Gares, L. F. (A)
Miller, R. E. (A)
Schaefer, J. B. (SM)
Shaffer, V. B. (A)
Smith, F. W. (SM)

East Pittsburgh
Chubb, L. W. (F)
Goggio, E. C. (A)
Hague, H. J., Jr. (A)
Harriman, D. E., Jr. (A)
Slepian, J. (F)
Wisleder, D. E. (A)

Elkins Park
Gillies, J. H. (SM)
Kreuzer, B. (VA)
Porter, H. F. (VA)
Sheldon, H. (A)
Voelker, W. D. (M)

Emporium
Ackman, H. E. (SM)
Baldwin, A. V. (SM)
Brunner, G. V. (SM)
Campbell, V. H. (SM)
Canning, J. H. (M)
Carlson, R. F. (SM)
Clark, J. H. (A)
Cooley, R. M. (M)
Dalasta, F. (M)
Dickinson, W. A. (SM)
Gessford, R. K. (SM)
Glantz, L. L. (A)
Hoffman, M. C. (VA)
Jones, W. R. (SM)
Kahl, E. (M)
Kahl, M. I. (SM)
Kiser, N. L. (SM)
Klinestiver, G. H. (VA)
Knowles, D. J. (M)
Kromko, V. J. (A)
Lambert, R. L. (M)
Loughlin, J. H. (A)
McNaughton, R. A. (M)
Melzer, H. (VA)
Mueller, W. P. (M)
Ottemiller, W. H., Jr. (M)
Overmier, E. E. (SM)
Peterson, A. W. (M)
Reash, C. W. (SM)
Reitz, N. J. (M)
Rishell, G. L. (M)
Robinson, A. J., Jr. (A)
Rolf, W. R. (M)
Schneider, E. J. (A)
Schultz, A. J. (M)
Shearer, C. E. (A)
Slinkman, R. W. (M)
Starek, R. A. (A)
Weiss, W. A. (M)
Woodward, T. M., Jr. (M)

Erie
Bliley, F. D. (A)
Heibel, J. D. (M)
Hestor, K. L. (A)
Minnium, B. B. (VA)
Mojden, W. W. (A)
Pratt, R. L. (A)
Raub, L. A. (VA)
Schlaudecker, R. T. (A)
Wolfskill, J. M. (A)
Wright, G. E. (A)

Fairview Village
Hilderbrand, R. H. (M)

Farrell
Kohut, M. (A)
Sateren, M. G. (VA)

Feasterville
Fredenhall, G. L. (SM)
Moore, G. O. (M)
Schroeder, A. C. (SM)

Flourtown
Ellsworth, W. C. (SM)
Stenzel, E. R. (A)

Ford City
Fisher, S. G. (A)

Fort Washington
Schantz, J. S. (VA)

Fox Chase
Frear, W. (VA)

Garden City
Simpson, O. (M)

Gettysburg
Laning, W. A. (M)

Gibsonia
Schoolberg, H. (A)

Gladwyne
Sheker, E. B. (A)

Glen Mills
Leitch, J. G. (SM)

Glenolden
Koch, J. F., Jr. (M)
Stott, H. B. (A)

Glenshaw
Alexander, F. C., Jr. (A)
Werner, J. E. (A)

Glenside
Armstrong, D. E. (A)
Austin, J. B., Jr. (A)
Bamford, H. S. (A)
Hoaglund, C. C. (A)
Jackson, R., Jr. (A)
Kleinhofer, B. A. (M)
Miller, A. C. (VA)
Wilson, H. R. (A)

Grampian
Moore, W. R. (VA)

Greencarson
Wine, R. E. (A)

Greensburg
Stark, R. E. (VA)

Grove City
Smock, D. O. (A)

Gwynedd Valley
Applegarth, A. R., Jr. (SM)

Hamburg
Thomason, J. F. (M)

Harrisburg
Bishop, H. O. (M)
Buckwalter, K. (A)
Drumheiser, A. W. (VA)
Marshall, B. T. (VA)
Miller, R. M. (A)
Strouse, W. M. (A)
Taylor, E. B. (M)

Hatboro
Barry, F. N. (VA)
Kennedy, J. F. (A)
Lockhart, J. C. (A)
Long, M. L., Jr. (A)
Noll, E. M. (A)
Remich, J. E. (A)
Scharmann, R. F. (M)
Wilkinson, L. A. (A)

Hatfield
Allen, J. E. (A)

Haverford
Benham, T. A. (A)
Clapp, R. G. (SM)
Crawford, A. L., Jr. (SM)
Sharpless, T. K. (A)

Havertown
Amelotti, E. (A)
Coffin, J. H. (A)
Crockett, J. G. (M)
Denk, W. E. (VA)
Edwards, C. L. (A)
Fulmer, J. W. (VA)
Hecht, B. (M)
Jacocks, T. B. (VA)
Jones, G. I. (SM)
Lofton, J. H. (M)
Marsden, W. Y. (A)
Moll, C. R. (A)
Oliver, J. K. (A)
Robinson, S. A. (M)
Seitz, F. R. (VA)
Sohon, H. V. (A)
Van Horn, J. C. (SM)
Woll, C. F. (SM)
Yeandle, R. S. (SM)
Zappacost, A. A. D. (M)

Hollidaysburg
Haller, E. J. (A)

Holtwood
Frey, J. E. (A)

Honesdale
Lozo, K. G. (A)

Huntingdon Valley
Spielman, S. C. (SM)
Thompson, M. L. (SM)

Indiana
Hitchcock, R. C. (SM)

Irwin
Brook, A. (A)
Cheek, R. C. (M)

Ithan
Hervey, J. P. (VA)

Jenkintown
Brauer, F. N. (A)
Clark, W. R. (SM)
Green, K. E. (M)
Koehler, J. F. (SM)
Schoenberg, M. L. (A)

Johnstown
Jones, R. D. (A)
Kocsan, E. S. (A)
Ludley, L. E. (A)

Johnsville
Wait, D. E. (A)

Kelayres
Lucian, T. F. (M)

Kennerdell
Smith, S. A. (A)

Kingston
Sakoski, C. (A)

Lafayette Hill
Adamson, R. G. (M)

Lancaster
Ayer, R. B. (SM)
Barrett, R. E. (A)
Bennett, W. P. (A)
Borman, A. P. (A)
Brown, B. B. (A)
Burnett, C. E. (SM)
Duckworth, G. W. (M)
Evans, H. J. (SM)
Feyerherm, M. P. (M)
Forman, J. M. (M)
Freund, W. H. (M)
Fry, H. M. (A)
Glover, A. M. (SM)
Headrick, L. B. (SM)
Hirlinger, J. F. (SM)
Jenny, H. (M)
Kelar, J. (A)
Mathiot, J. E. (A)
Nekut, A. G. (M)
Pratt, G. W. (A)
Quinn, J. L., Jr. (A)
Reinartz, J. L. (SM)
Richards, P. A. (M)
Seelen, H. R. (A)
Silva, J. A. (A)
Smith, C. P. (M)
Spitzer, E. E. (SM)
Swedlund, L. E (SM)
Ulrey, D. (SM)
Veith, F. S. (M)
Wilhelm, J. F. (M)
Wu, H. S. (A)

Lansdale
Harcher, A. J. (A)
Harz, E. W. (A)
Smith, W. E. (A)

Lansdowne
Brumbaugh, J. M. (SM)
Felton, W. W. (M)
Free, A. L. (M)
Mayer, R. (M)
Moritz, C. (A)
Pamphilon, L. E. (A)

Leechburg
Boario, W. R. (A)

Lemoyne
Smiley, W. A. (VA)

Lewisburg
Blythe, R. (M)
Bueffel, B. H., Jr. (A)
Kornetz, N. S. (VA)
Schaefer, H. W. (F)
Scheer, F. H. (VA)

Lititz
Haller, C. E. (SM)

Lock Haven
Hartwell, H. G. (M)
Miller, H. J. (A)
Palen, H. A. (M)
Schnering, C. J. (M)

Lynnport
Klingaman, G. W. (A)

Mars
Berninger, J. W. (A)

Marsteller
Lieb, J. M. (A)

McKeesport
Boyog, G. A. (VA)
Henrich, C. A. (A)
McMillen, G. (VA)
Puskarich, L. B. (A)

Meadowbrook
Bingley, F. J. (SM)
Walker, H. (VA)

Meadville
Brown, R. L. (M)

Mechanicsburg
Rife, C. J. (M)

Media
Chambers, C. C. (SM)
MacNichol, E. F., Jr. (A)
Tompkins, H. E. (A)

Melrose Park
Sheppard, C. B. (M)

Merion
Colehower, C. H., Jr. (A)
Dilks, U. C. S. (M)

Millvale
Popp, R. (A)

Minersville
Palasky, H. (A)

Montoursville
Smithgall, H. E., Jr. (M)

Morrisville
Bleazey, J. C. (A)
Hardin, R. O. (A)

Morton
Shawhan, E. N. (A)

Mount Lebanon
Teasdale, R. D. (A)

Moylan
Porter, T. J. (A)

Munhall
Peetz, G. E., Jr. (A)

Narberth
Forstall, E. L. (VA)
McCoy, C. T. (SM)
Myer, D. A. (SM)
Williamson, J. F. (VA)

Natrona Heights
Baechtel, A. R. (A)

New Brighton
Coss, W. L. (A)

New Freedom
Benson, H. C. (A)

New Kensington
Eash, J. J. (A)
Harris, D. E. (A)

Newtown
Beck, K. H., Jr. (A)

Newville
McElwain, J. L. (A)

Noble
Hilliard, D. M. (A)

Norristown
Anders, R. D. (A)
Briggs, T. H. (SM)
Eney, I. N. (A)
Laurent, G. J. (A)
Place, S. W. (VA)
Zern, R. T. (VA)

North Hills
Dolberg, C. E. (A)
Foley, G. M. (A)
Kunz, J. G. (A)
Reichert, H. A. (A)

North Wales
Brunner, R. F. (A)
Lyle, A. E. (SM)

Oakmont
Peters, L. J. (VA)
Westrick, E. W. (M)
Wyckoff, R. D. (SM)

Oil City
Anderson, V. A. (A)
George, T. S. (A)

Oreland
Hooper, G. A. (M)
Nupp, W. D. (A)

Palmerton
Symanovich, T. (A)

Paoli
Overmiller, C. M. (VA)

Penn Wynne
Capodanno, R. T. (M)

Philadelphia
Albee, C. (A)
Albee, M. M. (A)
Albright, R. B. (SM)
Alter, A. R. (A)
Ames, M. E., Jr. (M)
Antrim, D. M. (A)
Austin, W. R. (A)
Balmer, D. W. (A)
Baloga, J. J. (A)
Banks, J. (A)
Barnett, G. F. (A)
Barsky, H. S. (A)
Bartik, W. J. (A)
Baumann, J. A. (A)
Baumgartner, W. H. (A)
Bean, N. S. (VA)
Bechler, W. C., Jr. (VA)
Bell, R. A. (SM)
Bellew, H. P. (A)
Benge, J. R. (VA)
Benjamin, J. M., Jr. (A)
Bennon, M. (A)
Bernbaum, B. (A)
Bittner, E. J. (A)
Block, E. (A)
Bond, C. F. (A)
Bond, D. S. (SM)
Bonn, T. H. (A)
Boothroyd, W. P. (SM)
Bowdon, F. M. (A)
Brenner, W. F. (A)
Broomall, J. M. (M)
Brothers, J. T. (SM)
Brough, H. J. (A)
Buggy, R. V. (M)
Bundy, R. F., Jr. (A)
Burgett, M. I., Jr. (A)
Busser, J. H. (A)
Byers, A. C. (A)
Caporale, P. (VA)
Carapellotti, L. T. (A)
Carnes, E. C. (A)
Carver, J. G. (A)
Chadwick, P. S. (A)
Chamberlin, N. K. (A)
Charp, S. (M)
Chase, C. T. (SM)
Chedaker, J. (A)
Chen, T. C. (A)
Christiansen, W. G. (A)
Chudleigh, W. H., Jr. (A)
Churchill, H. J. (A)
Cianela, D. J. (A)
Clifford, M. L. (A)
Colodny, S. H. (A)
Cooley, D. L. (A)
Craven, C. L. (A)
Creamer, E. M., Jr. (A)
Crippen, C. E. (A)
Criss, G. B. (A)
Crooks, W. R. (A)
Cummings, E. J. (A)
Cutten, H. (M)
Dectrow, T. X. (M)
Devaney, R. G. (M)
Diamond, J. (A)
Diem, G. W. (M)
Dodge, F. R. (VA)
Dove, J. B. (A)
Dugan, D. J. (A)
Duncan, R. D., Jr. (SM)
Earnshaw, D. P. (SM)
Eckert, J. F., Jr. (A)
Eckert, J. P., Jr. (A)
Edmonds, W. H. (A)
Ehret, C. D. (F)
Elnegaard, E. (A)
Emerson, K. H. (SM)
Engleman, C. L. (SM)
Etkin, H. A. (VA)
Etter, W. A. (M)
Evans, H. (A)
Evry, A. A. (A)
Fernbach, M. (A)
Ferrell, O. P. (A)
Fisher, A. H. (A)
Flomenhoft, M. (A)
Florence, V. H. (M)
Forster, W. H. (A)
Fowler, C. J. (A)
Fox, B. (A)
Frank, N. E. (A)
Freeland, E. C. (VA)
Frekot, J. J. (A)
Friedman, M. (A)
Geer, H. L. (A)
Gelardi, M. (VA)
Gelles, A. J. (A)
Gerlach, G. G. (VA)
Gilbert, W. E. (SM)
Gillies, J. H. (SM)
Glace, K. (M)
Godsho, A. P. (VA)
Goldstein, I. E. (A)
Goodman, R. M. (A)
Gray, H. J., Jr. (A)

Gubin, S. (SM)
Hagerty, G. E. (M)
Halev, I. (A)
Hamm, N. G. (A)
Hammer, T. E. (A)
Hancock, J. W. (A)
Hanna, C. R. (SM)
Harris, H. H. (SM)
Harrison, C. W., Jr. (M)
Hartley, H. F., Jr. (A)
Hawthorne, E. I. (A)
Hayward, J. W. (VA)
Hazeltine, A. V. (A)
Henninger, J. H. (M)
Hilbourn, C. L. (A)
Himmer, F., Jr. (A)
Hubbert, E. C. (A)
Hussey, E. E. (M)
Irby, J. G. (A)
Joffe, A. S. (A)
John, L. E. (A)
Jones, L. F. (SM)
Just, G. A. (A)
Karker, A. S., Jr. (A)
Kauders, R. M. (A)
Keener, C. E. (A)
Kirksey, T. W. (A)
Kraus, C. R. (M)
Kraus, F. A. (A)
Kurdziel, J. F. (A)
Kyne, T. (A)
Lamb, W. G. (A)
Langberg, E. L. (A)
Le Blang, E. D. (A)
Levy, W. W. (A)
Liebscher, A. (M)
Loginow, S. (A)
Long, L. A. (A)
Lowe, L. (A)
Lubkin, S. (SM)
MacElroy, C. W., Jr. (A)
MacFadden, W. C. (VA)
MacKay, R. F. (A)
Major, R. P. (M)
Marshall, J. N. (M)
Marsten, J. (SM)
Matthews, A. C. (SM)
Matson, L. E., Jr. (A)
Mauchly, J. W. (A)
McDowell, A. P., Jr. (VA)
McKinley, R., Jr. (A)
McVey, J. H. (A)
Michael, F. R. (A)
Miehle, W. (M)
Miller, A. F. (M)
Miller, E. (A)
Montgomery, A. P. (VA)
Moor, W. L. (A)
Moore, R. C. (VA)
Mouradian, H. (VA)
Munsell, A. F. (A)
Munster, A. C. (A)
Murri, J. (A)
Myers, A. S., Jr. (A)
Neuber, H. K. (VA)
Nicholson, G. D. (A)
Nickerson, F. B. (A)
Norton, R. (A)
Nye, W. H. (M)
Nygren, A. C. (A)
O'Donnell, J. A. (A)
Olson, V. A. (A)
Ottens, R. C. (A)
Palm, K. E. (A)
Parnell, J. (A)
Payne, J. F., Jr. (VA)
Pearlman, N. (A)
Perlman, W. (A)
Perlsweig, A. M. (A)
Petterson, W. N., Jr. (M)
Pinter, P. J. (A)
Plotkin, M. (A)
Pointer, R. L. (A)
Polster, N. E. (A)
Porter, V. J. (A)
Postle, A. H. (A)
Rabinowitz, M. W. (A)
Ranalli, M. J. (A)
Rataski, C. P. (M)
Rawcliffe, A. S. (A)
Raymond, G. H. (M)
Rees, W. M., Jr. (A)
Reiss, H. R. (M)
Rheams, C. J. B. (M)
Rice, H. E. (SM)
Riebman, L. (A)
Robinson, H. A. (SM)
Rodgers, L. M. (M)
Rollo, W. S. (A)
Rothschild, L. I., Jr. (A)
Rowe, C. R. (SM)
Ruben, H. (SM)
Russo, J. S. (A)
Sabaroff, S. (M)
Schifreen, C. S. (A)
Schmitt, E. C. (A)
Schnitzer, B. E. (M)
Scholes, W. R. (A)
Schreiner, E. D. (A)
Schreiner, W. A. (A)
Schulz, R. B. (A)
Scott, S. R. (A)
Shaw, R. F. (M)
Sher, N. (A)
Showers, R. M. (M)
Sichel, A. T. (VA)
Sielke, E. L. (A)
Slawek, J. E. (A)
Slimm, A. W. (A)
Smith, D. B. (SM)
Smith, T. A. (SM)
Spector, E. N. (A)
Speed, D. K. (A)
Spehr, C. J. (A)
Spencer, C. H. (A)
Stambaugh, J. C. (M)
Stambach, G. L. (A)
Stein, H. B. (A)
Stoller, M. D. (A)
Strohlein, E. M. (A)
Suckle, B. W. (A)
Sugerman, R. H. (A)
Sung, L. (A)
Swafford, T. W., Jr. (A)
Sysko, S. J. (M)
Szumal, L. J. (A)
Tarpley, R. E. (VA)
Tarzian, V. (A)
Tellier, J. C. (SM)
Thomson, M. E. (A)
Thorne, P. A. (A)
Tiley, J. W. (M)
Tourshou, S. (A)
Trantham, H., Jr. (M)
Tuska, C. D. (SM)
Vance, D. H. (VA)
Van Horn, J. C. (SM)
Voegtlin, E. (A)
Waitkeneus, J. (A)
Walls, H. J. (SM)
Wanner, L. R. (M)
Warshaw, J. (M)
Washabaugh, D. G. (A)
Waterman, W. (VA)
Watson, J. R. (A)
Watson, R. E. (A)
Webb, D. T. (A)
Weise, R. C. (VA)
Weissman, J. G. (A)
West, W. P. (SM)
White, J. P. (A)
Wightman, R. R. (M)
Wild, R. F. (VA)
Willenborg, E. J. (A)
Williams, A. J., Jr. (VA)
Wills, W. P. (SM)
Wilson, L. D. (M)
Witkin, E. (A)
Wolin, S. (A)
Wood, H. O. (A)
Yerkes, H. W. (A)
Yust, H. J. (A)
Zappacosta, J. A. (A)
Zindel, G. (A)

Pine Grove Mills
Parsons, J. S. (A)

Pittsburgh
Aldrich, D. F. (A)
Allen, A. J. (M)
Allen, J. G. (SM)
Barse, G. R. (A)
Barton, J. P. (VA)
Baughman, G. W. (SM)
Beatty, C. G. (A)
Boyer, J. L. (A)
Bretzin, V. B. (A)
Brower, D. F. (A)
Brown, R. H. (A)
Buehl, L. H., Jr. (A)
Busse, C. C. (A)
Canning, R. (A)
Carpenter, V. A. (A)
Caywood, W. P., Jr. (M)
Cole, N. D. (SM)
Coleman, W. E. (A)
Colosi, A. (A)
Crooks, R. K. (SM)
Cummings, W. D. (A)
Cyhers, J. A. (A)
Diamond, H. (M)
Dodd, A. E. (A)
Donnelly, T. J. (A)
Duckett, E. J. (M)
Engel, F. A., Jr. (M)
Friedman, A. B. (A)
Gail, H. R. (A)
Gilbert, C. W. (A)
Goldbach, J. C. (A)
Goodboy, G. O. (VA)
Gorham, R. C. (VA)
Graul, T. A. (A)
Hall, C. T. (A)
Hamilton, W. H. (M)
Hollis, R. H. (A)
Horstmann, A. F., Jr. (A)
Hovey, B. K. (SM)
Hubscher, E. W. (A)
Hull, R. S. (A)
Huggler, L. R. (A)
Hutcheson, J. A. (SM)
Jackson, A. H. (A)
Jarrett, M. G. (VA)
Jones, C. H. (M)
Kaiser, H. R. (M)
Kenney, T. C. (A)
Kirby, M. J. (M)
Kirkland, R. E. (A)
Kleeb, G. F. (A)
Klotzbaugh, G. A. (A)
Knox, W. G. (A)
Konrad, W. L. (A)
Kozub, L. J., Jr. (A)
Krasik, S. (A)
Lazich, B. (SM)
Leahy, E. F. (A)
Lockhart, W. K. (A)
Lynch, E., Jr. (A)
Maas, W. C. (A)
Marlowe, E. W. (M)
McConnell, R. A. (SM)
McCoubrey, A. O. (A)
McDowell, J. M. (A)
McIntosh, R. O. (SM)
Middlecoff, H. W. (A)
Middleton, M. (A)
Miller, J. H. (A)
Miller, T. (A)
Miller, W. M. (VA)
Nagel, G. W. (A)
Nelkin, A. (A)
Nelson, R. E. (A)
O'Donnell, T. J. (A)
Osbon, W. O. (VA)
O'Shea, J. G. (M)
Pierce, J. F. (A)
Place, W. P. (A)
Redman, W. T. (A)
Reed, J. F., Jr. (A)
Rose, J. T. (A)
Sander, H. F. (A)
Saviers, G. B. (M)
Schatz, E. R. (A)
Schneeberger, R. J. (A)
Schultz, J. J. (A)
Schultz, M. A. (A)
Shafer, W. L. (A)
Sheppard, G. E. (M)
Siebert, W. M. (A)
Snefsky, E. A. (A)
Staubitz, E. J. (VA)
Strasser, A. (A)
Sunnergren, A. P. (VA)
Taylor, K. A. (A)
Teare, B. R., Jr. (SM)
Teslik, J. A. (A)
Thornton, F., Jr. (A)
Vogeley, C. E., Jr. (M)
Volz, C. (A)
Warreck, A. (A)
Williams, E. M. (SM)
Zambell, H. G. (M)
Zierdt, C. H., Jr. (M)

Pottstown
Mellon, R. E. P. (VA)

Pottsville
Hatfield, G. I. (A)
Thiel, J. G. (A)

Quakertown
Bartholomew, R. G. (A)
Cole, W. P. (M)
Granberry, D. S. (M)
Keil, O. C., Jr. (M)
Leibe, F. A. (VA)
Shower, E. G. (SM)

Reading
Brobst, A. K. (A)
Fister, T. J. (A)
Fritz, J. R. (M)
Hartman, G. R. (A)
Hornberger, J. E. (VA)
Landis, H. O. (VA)
Liesman, F. J. (A)

Richland
Blair, I. W. (A)

Ridley Park
Johnson, F. L. (M)
Ward, E. P. (A)

Rochester
Anderson, G. M. (A)

Rockledge
Hopwood, A. M., Jr. (VA)

Rosemont
Woodcock, V. E. (A)

Rydal
Grimditch, W. H. (SM)

Saint Marys
Abbott, H. W. (VA)
Andrews, L. D. (A)
Dressel, H. (A)
Herrick, G. G. (VA)
Hoffman, R. R. (SM)
McKnight, G. P. (M)
Pierson, I. S. (VA)

Sayre
Ward, S. A. (A)

Schuylkill Haven
Emerich, W. E. (A)

Scranton
Cooke, K. R. (A)
Irving, I. M. (A)
McGoldrick, J. P. (A)
Moore, F. B. (A)
Oschmann, A. W. (A)
Papas, J. (A)
Quinn, J. M. (A)
Schiller, J. (A)
Van Etten, J. P. (A)
Weiss, H. (A)
Witkowski, J. F. (VA)

Secane
Neill, W. E. (A)

Sellersville
Smith, H. B. (A)

Selinsgrove
Hoover, M. V. (A)

Sewickley
Brown, N. M., Jr. (A)
Phillips, C. J. (A)
Shaw, S. J. (A)

Shamokin
Thompson, W. B. (A)

Sinnamahoning
Faust, A. C. (A)

Skippack
Kurgan, G. J. (A)

Smethport
Biever, F. H. (VA)

South Williamsport
Space, C. (A)

Spring City
Clevenstine, W. M. (A)
Wynn, J. C. (VA)

Springfield
Eichert, E. S. (A)
Foote, W. S. (M)
Horrocks, S. W. (VA)
Merrill, H. B., Jr. (A)
Weiss, E. (M)

Spring Grove
Johnson, J. E. (A)

State College
Ammerman, C. R. (A)
Axman, E. (M)
Brown, W. N., Jr. (SM)
Crossley, G. L. (SM)
Ebaugh, P. (A)
Frink, O., Jr. (SM)
Gagarin, G. G. (A)
Hall, F. T., Jr. (M)
Haller, G. L. (SM)
Higdon, R. V. (A)
Lopez, A. F. (M)
Martin, W. R. (A)
Miles, R. C. (A)
Newburgh, H. (A)
Patterson, S. (M)
Sebring, P. B. (M)
Smith, W. R. (M)
Sulzer, P. G. (A)
Thurston, E. G. (A)
Walker, E. A. (M)
Waynick, A. H. (SM)

Sterling
Decino, A. (SM)

Summerdale
Neiding, D. F. (A)

Sunbury
Bartley, F. L. (A)
Bubb, A. H. (A)
Carr, G. W. (A)
Greis, W. K. (VA)
Hooten, H. D. (A)
Kreps, J. E., Jr. (A)
Reitz, H. W. (A)
Sloan, F. M. (A)
Starks, J. C. (M)
Steinmetz, P. F. (M)
Stevens, R. W. (A)

Swarthmore
Dunn, E. B. (M)
Hayes, R. S. (VA)
Murakami, T. (A)
Travis, I. (A)
Weisz, P. (A)

Swissvale
Chu, C. C. (A)
Doucette, A. R. (M)
Rea, J. C., Jr. (A)

Towanda
Owen, E. R. (A)

Tunkhannock
Inman, A. D. (A)

Turtle Creek
McNabb, W. (A)

Tyrone
Kearney, H. B., Jr. (VA)

Upper Darby
Barbiere, J. F. (A)
Davis, J. H. (M)
Garkavenko, E. (A)
Haupt, A. (A)
Mannino, A. J. (A)
Mitchell, W. J., Jr. (A)
Newell, A. J. (A)
Peckham, M. A. (VA)
Powell, F. S. (A)
Segal, B. (A)

Verona
Muffly, G. (SM)
Zierdt, C. H. (A)

Warrington
Beggs, G. E., Jr. (M)
Clarence, A. L. (VA)

Washington
Spriggs, L. A., Jr. (A)

Washington Crossing
Fireman, P. (A)

Wayne
Bard, E. (A)
Eachus, I., Jr. (A)
Richards, D. C. (A)
Spencer, H. H. (A)

Waynesburg
Goldsmith, J. (M)

West Alexander
Ely, R. L., Jr. (A)

West Chester
Brainerd, J. G. (SM)
Corcoran, A. E. (A)
Veldhuis, I. A. C. (M)

West Pittston
Barritt, R. C. (A)

Wilkes-Barre
Shuster, E. F. (VA)

Wilkinsburg
Bechtol, H. D. (M)
Luther, G. M. (A)
Marthens, A. S. (M)
Nicholson, F. H. (SM)
Shoupp, W. E. (SM)
Taylor, W. E., Jr. (A)

Williamsport
Andrews, R. W. (M)
Bennett, S. R. (M)
Breon, K. H. (M)
Bresee, W. H. (A)
Eckel, C. B. (M)
Foltz, H. M. (M)
Freeman, W. C., Jr. (SM)
Hanford, C. E. (A)
Harrington, R. A. (A)
Jones, M. C. (A)
Lepley, R. C. (A)
Mahaffey, G. N. (VA)
Nordseth, M. P. (A)
Petts, R. G. (M)
Spencer, S. W. (M)
Strawbridge, R. B. (M)
Vergason, D. L. (A)
Wellendorf, J. J. (M)
Winner, A. N. (A)

Willow Grove
Bowley, R. J. (VA)
Phillips, J. W. (A)
Thompson, E. O. (A)

Wyncote
Craig, P. M. (SM)
Kinnier, D. (VA)

Wyndmoore
Kirkpatrick, W. B. (M)

Wynnewood
Dohan, W. R. (VA)
Johnson, N. (M)
Palmer, G., Jr. (A)

Wyoming
Koch, J. G. (A)

Yardley
Fite, A. S., Jr. (A)

York
Boyer, W. H. (A)
Goodling, G. G., Jr. (VA)
Eberhart, W. G. (A)
Weaver, W. N. (A)

RHODE ISLAND

Apponaug
Bargamian, J. (A)
Green, S. (A)
Lovering, C. B., Jr. (A)
White, R. S. (A)

Cranston
Vivian, W. E. (A)

Manton
Milnes, W. G., Jr. (A)

Manville
Lavallee, M. L. (A)

Middletown
Murray, R. P. (A)

Narragansett
Hummer, J. L. (A)

Newport
Allen, F. H. (A)
Hamilton, R. D. (A)
Hay, R. R. (A)
Murphy, E. J. (A)

North Scituate
Boss, L. J. (A)

Norwood
Truell, R. (SM)

Pawtucket
Najarian, A. A. (A)
Thornley, H. W. (VA)

Providence
Bakanowski, A. E. (A)
Dandreta, W. (VA)
Farrell, F. X. (A)
Fine, S. F. (A)
Kelley, A. V. (A)
McGinn, B. A. (A)
Wilkins, H. A. (A)

Quonset Point
Wilson, E. C. (A)

Rumford
Arnold, R. D. (A)
Parker, G. I. (A)
Prior, T. C. J. (M)

Seekonk
Prior, T. K. (A)
Tilley, H. H. (SM)

Tiverton
Lizotte, O. A. (A)

Valley Falls
Platt, J. H. (A)

Warren
Bowen, H. C. (A)

West Barrington
Morton, R. C. (A)

Westerly
Young, C. H. (A)

Woonsocket
Donneau, P. J. (A)

SOUTH CAROLINA

Abbeville
Hawthorne, C. T. (A)

Bennettsville
Powers, C. E. (A)

Camden
Sellers, E. A. (A)

Charleston
Bailey, J. H. (VA)
Bradham, D. M. (A)
McCarley, H. H. (A)
Newman, H. L. (A)
Ryan, C. M. (A)
Schachte, W. L. (A)
Thatcher, E. V. (A)

Clemson
Hallmark, G. D. (A)
Tingley, F. T. (A)

Columbia
Cosby, J. C. (M)
Easley, R. L. (M)
Eidson, H. G., Jr. (A)
Lambert, R. D., Jr. (M)

Florence
Finklea, D. (A)
Pritchett, W. A. (A)

Greenville
Pace, M. W. (A)
Tate, G. D. (M)

Lake City
Diggs, G. C. (A)

Mount Pleasant
Lyerly, E. E. (A)

Spartanburg
Burdette, C. J. (A)
Nichols, W. A. (A)
Thomas, H. G. (A)

Waterboro
Thoman, C. A. (A)

West Columbia
Hafely, C. H. (A)

SOUTH DAKOTA

Aberdeen
Webster, C. J. (A)

Astoria
Hogie, W. I. (A)

Brookings
Cheadle, J. N. (M)

Deadwood
Stanton, J. M. (M)

Elkton
McDowell, W. F. (A)

Huron
De Wolf, L. R. (A)

Parker
Shurtleff, C. H. (A)

Pierre
Craig, R. B. (VA)

Rapid City
Klopfenstein, R. W. (A)

Sioux Falls
McKenna, W. E. (M)
Weir, E. J. (A)

Vermillion
Bedwell, T. H. (A)
Waldorf, L. E. (A)
Williamson, R. J., Jr. (A)

Yankton
Todd, C. (VA)

TENNESSEE

Big Sandy
Dowdy, Q. B. (A)

Brentwood
Schumann, F. (SM)

Briston
Goelle, R. L. F., Jr. (A)

Chattanooga
Barnes, B. B. (A)
Bennington, R. F. (VA)
Dean, W. E., Jr. (A)
Hyatt, W. R., Jr. (A)
Munson, L. J. (M)
Owens, W. R. (A)
Smith, W. R. (A)
Stevens, F. J. (M)
Talmage, T. D. (M)
Thurnauer, H. (VA)

Concord
Humphrey, A. J. (A)

Franklin
Rawls, L. E. (A)

Jackson
Walker, C. A. (A)

Johnson City
Garland, O. K. (A)

Kingsport
Devaney, R. G. (A)

Knoxville
Adcock, S. E. (VA)
Bradley, J. A., Jr. (A)
Goff, J. E. (A)
Gow, F. C. (A)
Horton, J. R. (A)
Kerr, W., Jr. (A)
Peterson, W. J. (A)
Price, H. G. (A)
Shipley, E. D. (A)

Maryville
Warren, M., Jr. (A)

Memphis
Brown, A. L. (A)
Frase, E. C., Jr. (A)
Haywood, W. J., Jr. (A)
Logan, E. W., Jr. (A)
Marsh, W. (A)
McLin, J. T. (A)
Ringger, W. A., Jr. (M)
Slavick, H. W. (VA)
Stewart, E. B. (A)

Nashville
Alexander, R. B. (M)
Archie, A. N. (A)
Campbell, J. S. (M)
Dewitt, J. H., Jr. (SM)
Goodloe, R. R. (A)
Montgomery, L. H., Jr. (A)
Parker, C. B. (M)
Parrott, J. H., Jr. (A)
Reynolds, G. A. (M)
Shelton, A. C. (M)

Oak Ridge
Abele, H. M., Jr. (A)
Anthony, D. J. (A)
Bell, P. R., Jr. (M)
Evans, E. C. (A)
Fairstein, E. (A)
Fort, W. G. S. (A)
Franklin, J. C. (SM)
Garrett, G. A. (M)
Jackson, E. D. (A)
Janney, D. B. (A)
Jordan, W. H. (A)
Manning, F. W. (A)
Parsons, J. H. (M)
Quinn, R. L. (A)
St. John, E. E. (A)
Schede, R. W. (A)
Stanford, C. P. (A)
Thompson, D. C. (A)
Threadgill, A. R. (A)
Walchli, H. E. (A)
Walker, D. D. (A)
Werner, G. K. (A)
Williamson, T. L. R. (A)
Witt, E. C. (A)

Savannah
Berry, J. S. (A)

Signal Mountain
McDade, E. (A)
Richmond, R. E. (A)

Whitehaven
Freeman, R. W. (A)

TEXAS

Abilene
Henley, R. D. (A)

Alice
Williams, C. S. (A)

Amarillo
Beasley, R. R. (A)
Belles, H. W. (A)
Hankison, W. C. (A)
Harris, H. W. (A)
Martin, J. L. (A)
Torrey, W. H. (A)

Anson
Gill, R. M. (M)

Arlington
Boyle, K. R. (A)
Doan, L. W. (A)
Hutcheson, G. C. (SM)
Talley, J. P., Jr. (A)

Austin
Allen, T. L., Jr. (A)
Baltzer, O. J. (A)
Barclay, J. N. (A)
Brooks, F. E., Jr. (A)
Brown, H. S. (A)
Browning, J. H. (A)
Casper, A. W. (A)
Cunningham, R. E. (A)
Davis, A. (A)
Gordon, W. E. (A)
Hargis, P. M. (VA)
Hoffman, S. (A)
Kreuz, L. B. (A)
Kuehne, W. (M)
Lane, R. N. (M)
Maguire, J. C. (A)
McCarter, G. B. (A)
Rainey, G. W. (VA)
Ripperger, E. A. (A)
Rogers, R. G. (A)
Straiton, A. W. (M)
Wiggins, T. (A)

Baytown
Cornelius, L. W. (VA)

Beaumont
Bell, H. J. (A)
Bush, C. R. (VA)
Cherry, L. B. (A)
Clark, J. B. (A)
Easterwood, M. J., Jr. (A)
Hebert, H. J., Jr. (A)
Hill, F. C. (A)
Hughes, B. F. (A)
Kay, A. P., Jr. (A)
Kay, L. E. (A)
Laughlin, C. E. (A)
Lawrence, T. B. (M)
Mabry, V. (A)
Millington, J. W. (A)
Morgan, J. G. (A)
Murdock, R. H. (A)
Petkovsek, J., Jr. (A)
Scroggs, J. R. (A)
Southwell, J. D. (A)
Straughn, W. L., Sr. (A)
Taylor, H. O. (A)
Trevey, C. B. (A)
Winterhalter, A. (A)
Wunsch, O. O. (A)

Beeville
Dunn, T. E. (A)

Bellaire
Cowles, L. G. (M)
Weinstein, D. H. (A)

Big Spring
Walton, H. T. (A)

Breckenridge
Chapman, R. W. (M)

Brenham
Buchanan, J. P., Jr. (A)

Brownsville
Hawkins, D. W. (A)
Johnston, H. M. (A)
Pool, E. B. (A)

Bryan
Sosolik, F. J. (A)
Dillingham, H. C. (SM)
Prickett, T., Jr. (M)

College Station
Melloh, A. W. (SM)

Cooper
McKinney, C. M. (A)

Corpus Christi
Berkery, E. A. (A)
Cuesta, N., Jr. (A)
Douglas, R. N. (A)
Dunn, E. C. (A)
Lockhart, H. B. (A)
Loeb, L. S. (A)
Mayer, E. G. (M)
Taylor, P. (M)

Dallas
Anderson, B. C. (A)
Arnett, R. A. (M)
Balcom, H. A. (A)
Batterson, C. C. (A)
Beers, R. F. (A)
Berman, G. (M)
Bowler, G. E. (M)
Brock, F. A. (A)
Broding, R. (SM)
Buie, J. G. (A)
Burg, K. E. (A)
Carney, R. (A)
Chapman, A. B. (VA)
Chenault, H. P. (A)
Clark, W. C. (A)
Collins, F. (A)
Collins, J. R. (A)
Compton, J. M. (M)
Congdon, R. L. (A)
Coursey, J. R. (A)
Crandell, C. F. (M)
Cullum, A. E., Jr. (F)
Daniell, C. M. (SM)
Dillon, F. O. (A)
Douglas, J. H. (A)
Dudley, T. C. (A)
Easterwood, D. F. (A)
Elkins, C. C., Jr. (M)
Ellis, W. C. (A)
Fenner, J. J. (A)
Gantt, R. R. (M)
Geisel, F. J. (A)
Geiser, D. T. (A)
Gilder, E. E. (A)
Godbey, J. J. (A)
Griffith, B. W., Jr. (A)
Haggerty, P. E. (A)
Hammett, R. L. (M)
Harrison, L. E. (A)
Heard, B. E. (A)
Hegar, E. A. (M)
Holaday, D. F. (M)
Homsy, J. H. (SM)
Huddleston, R. H. (A)
Hunt, J. T. (A)
Kantenberger, W. J. (A)
Kelsay, W. D. (A)
Kennedy, F. H., Jr. (A)
Kluttz, J. F. (A)
Leedom, J. N. (A)
Levelle, A. S. (M)
Lewis, M. T. (M)
Lipscomb, E. W. (A)
Loper, G. B. (M)
Lynn, P. R. (A)
Mathis, J. D. (SM)
Maund, C. A. (A)
McConathy, W. J. (A)
McDermott, E. (VA)
McNeely, J. S. (M)
Minton, J. P. (F)
Mitchell, W. R. (VA)
Moseley, T. B. (M)
Newell, B. J. (A)
Newton, W. W. (VA)
Nilson, O. J. (A)
O'Brien, E. J. (SM)
Olson, R. W. (M)
Paslay, L. C. (VA)
Penn, W. D. (SM)
Peterson, D. A. (SM)
Plog, K. (A)
Renner, D. S. (VA)
Ross, C. C. (VA)
Rountree, J. G. (M)
Schmitz, W. (M)
Sellers, J. E. (A)
Shook, E. M. (A)
Smith, H. J. (M)
Sorkin, S. A. (A)
Sowell, L. R. (A)
Summers, G. C. (A)
Tatum, F. W. (SM)
Tobolowsky, J. L. (A)
Troell, R. E. (A)
Tucker, D. J. (SM)
Walden, O. A. (A)
Weldon, J. O. (SM)
White, G. (A)
Wissemann, H. J. (A)
Witty, W. M. (VA)
Young, W. G. (M)
Zeidlik, W. J. (VA)

Del Rio
Donaldson, C. A. (M)

Denton
Tittle, C. W. (M)

Edinburg
Meiners, W. H. (A)

El Paso
Bickley, E. C. (A)
Deakins, G. (A)
Holmes, C. J. (A)
Howeisen, H. T. (A)
Safford, E. L., Jr. (A)

Stiles, A. C., Jr. (A)
Sunderland, H. L. (A)
Talbott, E. P. (VA)
Whiting, S. V. (A)

Fort Bliss
Belot, G. H. (A)
East, W. L., Jr. (A)
Eiler, D. L. (M)
Kroll, R. T. (A)

Ft. Worth
Aldrich, C. E. (M)
Anderson, K. W. (A)
Applegate, H. E. (SM)
Bunday, D. L. (A)
Cowan, D. A. (A)
Crosson, J. W. (M)
Currie, W. O. (VA)
Danner, O. G. (M)
Edwards, T. J. (A)
Fash, R. E. (VA)
Gunn, C. J. (A)
Hebert, M. R. (M)
Keplinger, M. (M)
Kelton, W. (M)
Kimzey, T. (M)
Koski, J. I. (A)
Lynch, B. (M)
Mayfield, S. A. (A)
Palmer, J. E. (VA)
Parsons, M. O. (A)
Peterson, W. E. (A)
Rea, R. W. (M)
Sandlin, G. L. (M)
Saxon, M. (M)
Shelton, T. J., Jr. (A)
Shepherd, M. F. (M)
Simmons, M. W. (M)
Smerke, F. P. (A)
Soucy, H. A. (A)
Sylvester, G. E. (A)
Van Ness, C. D. (A)
Williams, J. A. (M)

Fredericksburg
Kidd, T. L. (A)

Freeport
Clerc, M. C. (A)
Coker, S. G. (A)

Galveston
Ahrens, G. W. (A)
Clough, L. D. (A)
Lee, J. L. (A)
Pearce, O. M. (A)

Garland
Ming, M. M. (M)

Goose Creek
Hiner, T. L. (A)

Gorman
Eison, L. R. (A)

Grapevine
Barnes, P. C. (M)

Greenville
Clyce, T. E. (A)

Houston
Austin, F. M. (SM)
Bambach, A. W. (A)
Banta, H. E. (M)
Bird, G. T. (M)
Bodin, J. A. (A)
Booker, T. F. (A)
Bulger, W. L., Jr. (A)
Busacker, J. W. (A)
Callihan, E. S. (A)
Caplan, R. S. (SM)
Carlise, C. H. (M)
Carter, W. H., Jr. (M)
Chinski, G. R. (A)
Conant, R. J. (A)
Cowles, L. G. (M)
Dausman, R. H. (M)
Dixon, T. K., Jr. (A)
Doll, H. G. (SM)
Drisdale, T. B. (A)
Dupree, E. M. (SM)
Edwards, W. H. (A)
Erath, L. W. (M)
Feagin, F. J. (M)
Fielder, C. K. (M)
Flatow, T. (M)
Frosch, A. (A)
Gardner, D. H. (VA)
Geery, P. W. (A)
Geyer, R. A. (M)
Greenwood, H. M. (A)
Hanus, F. J. (A)
Harris, P. C. (A)
Havard, W. L. (A)
Heintz, K. O. (M)
Herzog, G. (SM)
Hougen, H. C. (M)
Hovey, I. C. (A)
Huebner, G. S. (A)
Huston, O. H. (VA)
James, W. B. (A)
Johnson, J. C. (M)
Kannenstine, F. M. (VA)
Kaufman, S. (M)
Lenert, R. H., Jr. (A)
Marshall, R. T. (A)
Martin, S. A., Jr. (M)
McCabe, L. L. (SM)
McConnell, H. E. (VA)
McReynolds, G. F. (M)
Miles, H. L. (A)
Miller, G. K. (SM)
Money, L. J. (A)
Monkhouse, J. R. (M)
Morton, O. L. (A)
Mullan, L. A. (A)
Neuenschwander, E. F. (M)
Neuman, L. J. (A)
O'Brien, D. D. (A)
Ording, J. R. (A)
Palmer, C. C. (M)
Parker, R. H. (A)
Peay, L. W., Jr. (M)
Phelps, W. (A)
Phillips, F. S. (A)
Pierson, A. L., III (A)
Plumb, P. E. (A)
Quade, H. G. (A)
Reynolds, R. C. (A)
Robidoux, F. T. (A)
Robinson, J. C. (A)
Royall, N. (A)
Rust, W. M., Jr. (SM)
Schmidt, H. (A)
Schmuck, R. H. (M)
Sears, G. D. (A)
Sears, H. A. (A)
Sellers, P. T. (A)
Shawver, E. F. (M)
Sherron, R. J., Jr. (A)
Teal, E. E. (A)
Thomas, C. W., Jr. (A)
Thompson, R. R. (M)
Tullos, F. N. (A)
Tvedt, T. J. (A)
Valcik, J. H. (S)
Washburn, W. M. (A)
Waters, J. S. (VA)
Welz, W. C. (M)
Wheeler, H. T. (M)
Whitaker, T. N. (A)
Wiley, J. L. (A)

Huntsville
Gulihur, D. L. (A)

Jacksonville
Laurie, B. (M)

Jasper
Ortscheid, B. J. (A)

Kemp
Cox, A. E. (A)

Kilgore
Canterbury, S. L., Jr. (A)
McArthur, H. K. (A)

Kingsville
Ashenden, G. K., Jr. (A)

LaPorte
Beardsley, W. S. (A)
Lorenzen, B. R. (A)

Laredo
Hance, L. V. (A)

Longview
Curtis, J. R. (A)
Jipp, J. (M)
Webb, E. E. (A)

Lubbock
Bryant, R. S. (A)
Houston, C. E. (M)
Lee, R. F. (M)
Royalty, M. C. (M)
Spuhler, H. A. (A)
Turrentine, R. E. (A)

Luling
Speer, T. J. (A)

Malakoff
Oster, R. E. (A)

McAllen
McIntosh, J. L. (A)

McQueeney
Koepsel, W. (A)

Mesquite
Flynn, R. M. (SM)
Lovejoy, R. E. (SM)

Nacogdoches
Kidd, T. L. (A)

New Braunfels
Egger, S. L. (A)

Odessa
Chambers, W. (A)
King, J. (A)

Palestine
McReynolds, Z. A. (A)

Pasadena
Chernosky, A. A. (M)
Clarke, C. V., Jr. (A)
Pearson, A. B. (A)
Russell, J. H. (A)
Smith, J. A. (M)

Port Arthur
Broaddus, G. J. (A)
Buddecke, C. B. (A)
Morrow, J. C., Jr. (A)
Proft, C. R., Jr. (A)
Staggers, R. D. (A)

Port Neches
Janik, J. L. (A)

Rosebud
McCoy, R. T. (A)

San Angelo
Lewis, W. A., Jr. (A)
Patton, A. D. (A)

San Antonio
Arnold, J. B. (A)
Brady, C. L. (M)
Buchanan, H. (A)
Campbell, H. G. (A)
Case, B. (A)
Case, E. E. (A)
Davidson, J. B. (A)
Egerton, W. G. (VA)
Elliott, T. A., Sr. (M)
Fitzhugh, J. V. (A)
Gallagher, J. D. (A)
Garren, R. A. (A)
Hallam, J. T. (VA)
Hamm, W. J. (A)
Hasbrock, A. F. (A)
Hopper, R. W. (A)
Imle, J. F. (VA)
Ing, G. W. (A)
Janes, V. N. (SM)
Jeffers, C. L. (SM)
Jonas, L. K. (M)
Mabry, J. H. (A)
Mason, A. F., Jr. (A)
Murgatroyd, C. A. (A)
Parr, J. O., Jr. (A)
Patterson, J. C. (A)
Patton, A. D. (A)
Rives, J. B. (A)
Scroggins, C. M., Jr. (A)
Sullivan, M. C. (M)
Tarrodaychik, P. (A)
Wall, L. D. (VA)

San Augustine
Wright, H. E. (A)

San Benito
Graver, F. E. (A)

Stephenville
Dodd, C. L. (A)

Sweetwater
Shepherd, M. F. (M)

Temple
Converse, L. B. (A)
Cook, H. A. (A)
Latz, G. J. (A)

Terrell
Pitts, M. L. (A)

Texas City
Oswalt, A. K. (M)

Tyler
Hogue, W. T. (A)
Wileman, R. A. (M)

Van Horn
Swenson, H. T. (A)

Victoria
Sherry, F. E., Jr. (A)

Waco
Appleman, L. H. (VA)
Sanderford, R. M., Jr. (A)
Schwetman, H. D. (M)

Wharton
Taylor, T. W. (A)

Wichita Falls
Adams, J. (VA)
Horn, W. F. (A)
Wiley, H. T. (A)

Yorktown
Respondek, A. M. (A)

UTAH

Brigham
Alvord, L. H. (A)

Cedar City
Christensen, J. W. (SM)

Layton
Shurtz, D. C. (M)

Logan
Cole, L. S. (A)

Ogden
Cozzens, W. D. (M)
Lee, G. F. (M)
Smith, A. L. (A)
Wilson, J. H. (A)

Park City
Rugar, J., Jr. (M)

Salina
Osborn, R. H. (A)

Salt Lake City
Ahearn, J. M. (A)
Baldwin, J. M. (SM)
Benson, S. (A)
Burton, E. B. (A)
Carman, F. C. (A)
Clayton, V. E. (A)
Derrick, G. R. (A)
Dolva, V. A. (A)
Emery, W. L. (SM)
Evans, C. R. (M)
Haycock, O. C. (SM)
Hooper, J. R., Jr. (A)
Hooper, J. S. (A)
Madsen, E. C. (A)
Manning, C. H. (A)
Monroe, C. J. (A)
Morley, L. N. (A)
Pack, E. G. (M)
Rawlings, H. L. (A)
Reynolds, J. B. (M)
Thornton, T. W. (M)
Van Valkenburg, M. E. (A)
Wahlquist, L. O. (A)
Walsh, W. C. (A)

Sondy
Atwood, K. W. (A)

Washington
Iverson, M. M. (A)

Wendover
Fechter, H. R. (A)

VERMONT

Barre
Tetreault, G. T. (A)

Burlington
Dean, J. E. (M)

Northfield
Lush, W. G. (SM)
Staake, D. B. (A)

Saint Johnsbury
Smith, H. J. (A)

VIRGINIA

Alexandria
Allison, L. P. (A)
Alty, R. L. (M)
Balwanz, W. W. (A)
Barker, C. B., II (M)
Bartelt, A. D. (M)
Butts, R. S. (M)
Carr, L. H. (VA)
Christopher, N. H. (A)
Cissel, F. G. (A)
Cohen, J. (M)
Dau, W. K., Jr. (A)
Dempsey, R. H. (A)
Dowie, J. A. (SM)
Dyer, F. C. (A)
Fahy, E. J. (A)
Garmirian, G. J. (A)
Gillett, G. D. (F)
Goff, L. O. (A)
Greenleaf, S. A. (VA)
Haddock, F. T., Jr. (A)
Hallenstein, N. A. (VA)
Harrison, H. (A)
Harvey, G. L. (A)
Hilburn, E. D. (A)
Hopkins, A. F., Jr. (VA)
Horne, C. F., Jr. (A)
Jones, A. B. (SM)
Jones, R. C., Jr. (A)
Jones, R. H., Jr. (M)
Kinley, C. B. (VA)
Lain, P. A. (A)
Lewis, O. I. (SM)
Longfellow, B. S. (M)
Marsh, H. S. (A)
McCachren, W. S. (SM)
McNaughton, M. (N)
Olmsted, D. T. (A)
O'Reilly, G. A. (SM)
Packard, A. (M)
Peake, H. J. (M)
Price, H. W., Jr. (M)
Ringo, G. R. (A)
Ringwalt, D. L. (A)
Ryan, A. H. (SM)
Sheets, M. J. (A)
Sidar, E. N. (M)
Stern, J. L. (A)
Stewart, C., Jr. (A)
Stuckert, E. M. (SM)
Varela, A. A. (SM)
Von Dohlen, H. W. (VA)
Weid, A. C. (M)
Williams, J. A. (A)
Wright, T. A. (A)

Arlington
Alexander, S. N. (A)
Allen, E. W., Jr. (M)
Banks, C. R. (VA)
Bankson, H. D. (A)
Beatty, R. W. (A)
Beecher, W. C. (A)
Blackman, C. P. (A)
Blankmann, W. L. (A)
Booth, R. M. (A)
Boswell, J. R. (VA)
Bradley, W. F. (M)
Brimberg, M. M. (M)
Brisebois, L. T. (A)
Buchanan, O. R. (VA)
Burcham, D. P. (M)
Campbell, W. H. (SM)
Chasnov, B. (A)
Clark, R. L. (VA)
Clark, S. F. (A)
Cogswell, W. P. (SM)
Cohen, L. (F)
Cook, D. C. (A)
Coombs, W. C. (VA)
Cox, J. W. (A)
Craver, J. N. (M)
Croy, J. R. (A)
De Armond, J. K. (SM)
Denius, H. R. (M)
Dingley, E. N., Jr. (SM)
Drew, J. L. (M)
Dutton, W. P. (A)
Flewelling, J. D. (SM)
Garlan, H. (M)
Gautney, G. E. (A)
Girard, E. J. (SM)
Goldwag, H. (A)
Goulett, W. B. (A)
Grenfell, W. S. (A)
Groves, W. E. (SM)
Guest, W. T. (SM)
Hackman, E. H. (VA)
Hagen, J. P. (SM)
Hauber, E. N. (M)
Haviland, E. F. (A)
Hedge, L. B. (A)
Henning, R. W. (A)
Higgins, F. V. (M)
Hill, D. R. (A)
Hinsdale, E. M., Jr. (A)
Hopkins, P. E. (SM)
Horne, C. P. (A)
Hull, D. (F)
Husten, B. F. (A)
Jackson, C. H. (A)
Janes, C. W. (SM)
Jensen, G. L. (M)
Johnson, C. Y. (A)
Johnson, M. L. (M)
Kelleher, J. J. (A)
Kerns, D. M. (A)
Kershner, S. W. (A)
Kilgallen, A. (M)
Kilpatrick, E. L. (A)
Lanier, H. F. (M)

Leas, J. W. (M)
Lee, J. M. (SM)
Loeber, C. W. (M)
Long, G. A., Jr. (M)
Long, M. C. (A)
Lubin, S. (M)
McClurg, G. H. (SM)
McCormick, E. M. (M)
McNally, I. L. (SM)
Marshall, F. M. (A)
Martin, A. D., Jr. (M)
Martin, O. L. (M)
Merkel, H. E. (A)
Meyer, R. E. (A)
Miller, R. E. (A)
Mitchell, F. T., Jr. (M)
Moffet, J. A. (A)
Montgomery, J. N. (A)
Moran, W. M. (A)
Morgan, A. H. (M)
Morrison, E. D. (A)
Moulton, A. B. (A)
Murphy, J. V. (SM)
Newcomb, L. A. (A)
Orwin, R. J. (A)
Parker, M. L., Jr. (M)
Phelps, J. M. (A)
Piore, E. R. (SM)
Ports, D. C. (SM)
Price, M. A. (VA)
Prugh, T. A. (A)
Ransom, R. A. (A)
Richman, H. R. (VA)
Riblet, H. B. (SM)
Rice, W. E. (A)
Rosen, L. (M)
Ross, E. S. (A)
Rothrock, H. B. (VA)
Russell, J. H. (A)
Sayre, A. G. (M)
Schaaf, R. H. (A)
Sharpe, M. O. (SM)
Shook, W. R. (A)
Shostak, A. (M)
Sieck, L. W. (M)
Small, J. N. (A)
Smith, C. H., Jr. (A)
Smith, J. M. (A)
Smith, K. A. H. (A)
Spies, M. C. (VA)
Stachura, E. J. (A)
Steidly, J. W. (M)
Stelzenmuller, G. V. (A)
Stephan, H. W. (VA)
Stewart, T. E., Jr. (A)
Stokes, H. S. (VA)
Sullivan, P. H. (A)
Sunde, D. H. (A)
Swanson, M. W. (A)
Taylor, R. S. (A)
Thompson, L., Jr. (M)
Thompson, L., Jr. (A)
Tucker, E. (A)
Tuller, W. G. (M)
Turner, J. S. (A)
Veatch, J. P. (SM)
Weihe, V. I. (SM)
Weinstein, A. (A)
Wellings, A. A. (A)
Williams, L. C. (A)
Wilson, N. B. (A)
Wolfand, D. (A)
Woodyard, H. R. (A)
Young, C. P. (SM)

Arlington Forest
Taylor, K. A. (M)

Bedford
Lindsay, J. C. (A)

Blacksburg
Murray, W. A. (VA)
Wright, R. R. (M)

Charlottesville
Breazeale, W. M. (SM)
Harrell, E. E. (A)
Hutter, E. C. (A)
Updike, O. L. (A)
Venabel, D. (M)

Chester
Selden, W. R. (A)

Chincoteague
Rowe, D. E. (M)
Wilhelm, F. A. (A)

Colonial Beach
Brooks, F. E. (A)

Crozet
Hopkinson, T. W. (M)

Dahlgren
Romero, E. S. (A)

Danville
Bremmer, P. (A)
Crabtree, D. M. (A)
Lea, H. D. (A)
Motley, L. C. (A)

East Falls Church
Bateman, R. (A)

Fairfax
Herbstreit, J. W. (SM)
Langmuir, D. B. (SM)
Lasler, C. C. (SM)

Falls Church
Anderson, H. C. (VA)
Beach, A. R. (SM)
Billheimer, C. R. (M)
Boland, J. N. (A)
Bond, C. H. (SM)
Chew, W. H. (A)
Dickson, F. H. (A)
Fleming, L. (M)
Follin, W. W. (A)
Gaddis, L. L. (A)
Hilker, B. R. (M)
Hinman, W. S., Jr. (SM)
Krcek, J. A. (A)
McDowell, R. B. (VA)
Miles, P. D. (SM)
Nelson, C. W., Jr. (A)
Norman, S. W. (M)
Ottinger, G. L. (A)
Patterson, R. E. (M)
Renton, R. J. (M)
Rubenstein, A. M. (A)
Rumble, A. R. (VA)
Shaw, R. M. (VA)
Skrivseth, A. G. (M)
Ware, M. (M)

Farmville
Covington, O. C. (A)

Fredericksburg
Candler, W. S. (A)
Cooke, J. L. (A)

Galax
Weaver, D. W., Jr. (A)

Glade Spring
Ballou, H. A. (A)

Hamilton
Bouchey, S. H. (A)

Hampton
Brown, R. L., Jr. (A)
Delpino, F. H. (A)
Fleischhaker, A. (A)
Fuhrmeister, P. F. (A)
Greenwald, M. H. (A)
Harris, O. R. (A)
Hastings, C. E. (SM)
McFall, C. H., Jr. (A)
Newby, D. H. (A)
Schneider, F. H. (A)
Taylor, C. A. (A)
Trusynski, G. M. (A)
Youngblood, H. H. (A)

Harrisonburg
Braun, W. L. (A)

Herndon
Peck, R. C. (A)

Hilton Village
Stiles, R. G. (A)

Hot Springs
Peery, G. M. (A)

Lexington
Horne, R. C., Jr. (M)
Mills, M. M. (M)

London Bridge
Hathaway, S. D. (A)

Longview
Collins, E. H. (A)

Lyle
James, S. D. (A)

Lynchburg
Bynum, L. M. (A)
Keyser, J. R., Jr. (A)
Orth, J. T. (M)
Pinkerton, F. J. (A)
Wright, J. F., Jr. (A)

Manassas
Marshall, E. L. (VA)

Martinsville
Muse, D. W. (A)

McLean
Craven, T. A. M. (F)
Creutz, J. (VA)
Rietzke, B. H. (SM)
Smith, J. E. (SM)

Mineral
Kiblinger, W. H. (A)

Newport News
Aaron, B. D. (A)
Bjerke, J. O. (A)
Burlock, J. (A)
Gibbs, J. B. (A)
Wilson, C. C. (M)

Norfolk
Cooper, R. A. (A)
Crosby, H. K. (A)
Dail, E. E. (A)
Dickerson, B. C. (M)
Diverty, J. W. (A)
Etheridge, E., Jr. (A)
Feick, J. C., Jr. (A)
Heindsmann, T. E., Jr. (A)
Jewell, E. D. (A)
Kaserman, F. S. (VA)
Lindell, R. L. (A)
Little, W. A. (A)
Peffer, J. C. (A)
Ryscuck, J. (A)
Smith, D. H. (A)
Stewart, C. E. (A)
Stoddert, T. M. (A)
Thomas, C. Y. (A)
Trip, R. E. (A)

Petersburg
Schwarz, E. F. (A)
Townes, W. D. (A)
Turner, H. G. (A)

Portsmouth
Bernhard, H. H. (A)
Clair, F. F. (A)
Friel, F. J., Jr. (VA)
Gwaltney, H. G. (A)
Myers, J. C. (A)
Randles, W. C. (M)
Shepherd, J. F. (A)
Tanner, H. A. J. (M)
Williams, R. E. (A)

Proffit
Quarles, L. R. (SM)

Quinby
Cameron, C. E. (A)

Richmond
Bailey, R. C., (SM)
Chezik, T. W. (A)
Conte, T. M. (SM)
Cosby, R. R., Jr. (A)
Dere, E. B. (A)
Dew, E. N. (A)
Eubank, R. N. (M)
Franck, F. O. (A)
Godsey, M. S. (A)
Golding, R. M. (A)
Howell, E. R., Jr. (A)
Hull, L. C. (A)
Kyle, J. W. (A)
Lee, W. M. (A)
Nester, R. A. (A)
Payne, J. E., Jr. (A)
Seney, J. S. (A)
Sharpe, W. J. (A)
Sturn, F. L. (A)
Toms, E. C. (A)
Ullman, M. J. (A)
Wolstenholme, E. V., Jr. (A)
Wood, W. H. (M)
Woods, D. C. (M)

Roanoke
Briggs, J. P. (A)
Lemon, E. B. (A)
Newman, J. E. (A)

Staunton
Miller, A. G. (A)

Sterling
Utz, R. E. (M)

Vienna
Duncan, F. B. (A)

Virginia Beach
Crandall, W. R. (A)

Waynesboro
Klann, P. A. (A)

Wealthia
Russel, C. M. (A)

WASHINGTON

Aberdeen
Haase, W. D. (A)

Anacortes
Troetschel, W. O. (A)

Bellevue
Cooley, R. D. (A)
Olson, J. H. (M)

Bremerton
Blair, A. R. (A)
Brudwig, A. H. (M)
Byer, E. D. (M)
Cain, W. O. (A)
Dance, D. W. (A)
Fleming, H. A. (M)
Fouts, J. L. (A)
Gowdey, M. V. (M)
Gruwell, F. N. (M)
Himoe, C. E. (M)
Kellar, J. B. (A)
Linkletter, R. L. (A)
Marsolan, V. C. (SM)
Mason, J. E. (M)
Pedersen, R. E. (A)
Pitts, H. L., (SM)
Purbaugh, H. O. (A)
Thompson, R. R. (M)

Burton
McClamrock, J. M. (A)
Ray, H. A., Jr. (A)

Centralia
Mills, B. C. (A)
Templeman, J. M. (A)

Cle Elum
Weber, B. W. (A)

College Place
Kretschmar, G. G. (VA)

Coulee Dam
Morin, E. P., Jr. (A)

Edmonds
Farr, W. (A)

Everett
Gerdon, E. J. (A)
Hall, T. S. (A)
Ives, M. E. (A)
Mason, L. D. (A)
Reilly, G. A. (A)
Swarm, H. M. (M)

Gig Harbor
Berkheimer, R. H. (M)

Kelso
Collins, E. H. (A)

Kenmore
Rost, E. J. (VA)

Kirkland
Butler, R. E., Jr. (A)

Mercer Island
Maynard, J. E. (SM)

Oak Harbor
Greenwood, W. R. (A)

Olympia
Gammell, H. C. (A)
Lewis, C. (M)
Metcalfe, J. D. (A)

Pendleton
Rankin, S. J. (A)

Port Angeles
McFadden, R. R. (A)

Port Orchard
Gaudreau, H. L. (M)
Lyngstad, E. O. (M)
Rybon, J. C. (A)
Tewell, R. H. (A)

Poulsbo
Winter, B. J. (A)

Pullman
Lickey, H. F. (VA)

Puyallup
Faris, G. W. (A)
Herr, M. D. (M)

Raymond
Martin, J. W. (A)

Renton
Wilson, D. W. (M)

Richland
Ames, F. H., Jr. (M)
Crane, W. K. (SM)
Jacobs, I. M. (A)
Larrick, C. V. (SM)
Lindberg, B. G. (A)

Richmond Beach
Graff, G. M. (A)

Seattle
Arnold, N. E. (A)
Ashleman, F. C. (A)
Auckland, H. G. (M)
Bach, R. O. (SM)
Barger, G. K. (A)
Bark, R. S. (A)
Barter, L. D. (A)
Bennett, S. D. (A)
Benzon, G. G. (VA)
Berkman, R. D. (A)
Black, J. C. (A)
Brott, F. J. (SM)
Brown, R. H. (M)
Brown, W. T. (A)
Cadwallader, R. W., Jr. (A)
Caproni, G. A. (A)
Chase, R. F. (M)
Chewning, W. H. (A)
Cochran, L. B. (SM)
Colby, R. L., Jr. (M)
Curran, B. F. (A)
Doolittle, K. H. (A)
Downie, W. A. (A)
Duncan, J. A. (A)
Eaden, N. (M)
Eastman, A. V. (F)
Ellerbeck, K. H. (VA)
Ellis, C. W. (A)
Waldo, D. E. (A)
Embree, R. R. (A)
Eng, D. Y. (A)
Estes, F. B. (VA)
Exner, D. W. (A)
Faris, J. J. (A)
Finch, H. D. (M)
Ford, J. P. (A)
Foster, C. H. (A)
Foster, N. H. (A)
Franks, B. W. (M)
Frey, L. E. (A)
Frost, F. N. (M)
Frost, J. D. (A)
Gordon, G. B. (A)
Graham, E. (A)
Grantham, M. D. (A)
Greenaway, L. R. (A)
Griffiths, R. W. (M)
Hagler, D. L. (A)
Hale, H. (A)
Hall, G. D. (A)
Hansen, E. N. (A)
Harman, A. R. (A)
Harrold, W. T. (VA)
Hatfield, J. B. (A)
Hayes, W. D. (A)
Henry, E. G. (M)
Hill, W. R., Jr. (M)
Hoard, G. L. (SM)
Hogg, J. E. (M)
Hoglund, R. H. (M)
Horn, H. T. (A)
Howell, H. H. (A)
Howlett, J. E. (A)
Illman, R. W. (A)
Jacobsen, A. B. (A)
James, M. B. (A)
Johnson, J. F. (SM)
Jones, J. (A)
Judson, H. H., Jr. (A)
Kibbler, P. J. (VA)
Kish, S. A. (A)
Lasater, W. D. (A)
Layton, J. E. (A)
Leach, P. C. (A)
Lee, I. W., Jr. (A)
Lee, R. C. (A)
LeVitin, M. L. (A)
Libby, T. M. (SM)
Lind, P. C. (A)
Loughridge, D. H. (SM)
Lowe, G. P. (A)
MacLeod, J. P. (A)
Malling, L. R. (VA)
Mendenhall, G. G. (M)
Miller, C. E. (A)
Monk, K. R. (A)
Mossman, F. B. (SM)
Nelson, D. D. (A)
Nelson, L. O. (A)
Newell, S. E. (A)
Nutting, D. C. (M)
Olson, N. K. (M)
Ostrom, C. W. (A)
Palmer, V. L. (M)
Parrott, J. E. (M)
Parsons, C. B. (A)
Pascual, R. A. (A)
Paterson, J. M. (M)
Petrich, R. O. (A)
Pierce, H. I. (A)
Price, H. J. (SM)
Quantz, R. G. (A)
Rehkopf, C. L. (A)
Rehkopf, G. R. (A)
Renfro, H. E. (VA)

Rickett, R. J. (A)
Rodenhouse, E. (M)
Rommel, T. A. (A)
St. John, I. S. (A)
Shepard, W. G. (A)
Sheppard, J. J., Jr. (A)
Shipek, R. H. (A)
Smith, E. H. (M)
Smith, O. C. (A)
Stedman, C. K. (SM)
Stewart, E. C. (A)
Temple, P. E. (A)
Tolmie, J. R. (SM)
Torvick, E. B. (M)
Traub, L. A. (M)
Triplett, W. R. (SM)
Tustin, W. (A)
Wakelee, C. L. (A)
Waldo, D. E. (A)
Ward, D. M. (A)
Ward, J. W. (A)
Warrick, H. H. (M)
Weinstein, G. (A)
Wells, J. (A)
Wilcox, R. E. (A)
Williams, C. E. (SM)
Willman, K. M. (A)
Willson, A. R. (SM)
Young, J. A., Jr. (A)

Snohomish
Sherman, W. K. (VA)

S. Richmond
Sturm, F. L. (A)

Southworth
Jobe, D. J. (A)

Spokane
Backman, J. A. (A)
Evans, C. W. (A)
Gorman, D. P. (M)
Green, W. L. (M)
MacLean, T. W. (VA)
Morrison, H. L. (A)
Palmquist, M. L., Jr. (A)
Pool, W. G. (A)
Shahan, R. L. (A)
Storms, H. J. (VA)
Switzer, W. H. (A)
Trebby, F. J. (A)
Tucker, J. R. (A)
Walker, J. (A)

Suquamish
Harper, E. E. (A)

Tacoma
Engh, D. F. (A)
Fisher, R. C. (SM)
Galloway, W. C. (A)
Hammersand, F. G. (A)
Johnson, W. H. (A)
Ludwig, R. I. (A)
McDonough, D. M. (A)
Perkins, M. G. (A)

Toledo
Richardson, S. J. (A)

Vancouver
Cabe, L. E. (A)
Houston, C. M. (A)
Mumford, E. R. (A)

Walla Walla
Parmelee, W. G. (A)
Swanson, C. D. (A)

Wenatchee
Sutton, R. B. (A)
Wallace, J. (A)

Whidbey Island
Green, G. G. (A)

Yakima
Brockway, B. W. (A)
Kissler, R. G. (A)

WEST VIRGINIA

Bluefield
Flanagan, P. T. (A)
Lawrence, B. F. (A)
Yost, R. H. (A)

Charleston
Shipman, W. A. (A)
White, M. A. (A)

Charles Town
Nichols, D. S., Jr. (A)

Clarksburg
Bedford, S., Jr. (A)

Cowen
Haller, M. N. (A)

Fairmont
Carroll, R. L. (A)
Hough, R. D. (M)
Johnson, E. A. (A)

Huntington
Hawes, J. G. (A)
Bromley, R. A. (A)
Robinson, J. C. (M)
Zeh, R. J. (A)

Morgantown
Colwell, R. C. (SM)
Forman, A. H., Jr. (A)
Seibert, C. B. (A)
Spence, R. C. (A)

South Charleston
Rogers, L. J. (A)
Zaharis, G. (A)

Wheeling
Keim, E. L. (A)
Levenson, D. W. (A)
Paull, A. W., Jr. (A)

WISCONSIN

Beloit
Filmer, J. C. (A)
Kaplan, M. N. (A)
Morton, W. M., Jr. (A)

Cudahy
Morrette, J. K. L. (A)

DeForest
Tveit, T. J. (A)

Eau Claire
Jorgenson, T. O. (A)

Edgerton
Hubbard, B. F. (M)

Elm Grove
Bailey, T. J. (A)

Grafton
Konig, V. A. Y. (A)

Green Bay
Carlson, G. (A)

Hubertus
Uminski, G. J. (A)

Hurley
Pedri, J. N. (VA)

Janesville
Clay, W. A. (VA)
Gates, C. E. (M)
Williams, C. R. (A)

Kenosha
Eilenberger, S. D. (SM)
Heide, S. M. (A)
Thiel, W. L. (A)

La Crosse
Leeman, A. (VA)
Sweet, R. (A)
Tietz, E. C. (A)

Lake Nebagamon
Caspers, G. E., Jr. (A)

Madison
Asmuth, J. L. (A)
Conrad, E. (A)
Dobbertin, W. H. (A)
Gabriel, W. F. (A)
Groenier, R. S. (M)
Hafstrom, J. R. (A)
Hahn, N. G. (A)
Hunter, G. T. (M)
Koehler, G. (SM)
Mason, H. J. (VA)
Parent, R. J. (M)
Petree, B. (A)
Rideout, V. C. (M)
Scheibe, E. H. (A)
Snowdon, S. C. (A)

Manitowoc
Luecker, G. E. (A)
Reed, D. M. (M)

Menasha
Smith, R. D. (A)

Menomonee Falls
Goeden, H. E. (A)
Naslund, R. S. (VA)

Milwaukee
Alseth, N. A. (A)
Anthes, J. (A)
Atwood, A. R. (A)
Baird, J. T. (A)
Barszcz, A. M. (A)
Berge, O. L. (A)
Beter, R. H. (A)
Brennan, C. E. (A)
Brown, H. W. (A)
Butler, L. W. (M)
Catel, F. (A)
Cordes, E. L. (M)
Crowell, G. F. (M)
Doyle, J. G. (A)
Ebel, F. E. (A)
Eckert, F. A., Jr. (VA)
Elliot, W. H. (M)
Farber, E. R. (A)
Fawcett, H. G. (A)
Gainer, W. P. (VA)
Geiger, L. C. (A)
Gellerup, D. W. (SM)
Giffin, B. L. (A)
Gollnick, N. E. (A)
Hanley, R. J. (A)
Hassell, P. A. (A)
Hebal, W. H. (M)
Hoffmann, P. F. (A)
Host, R. H. (A)
Irving, E. J. (M)
Johnson, A. E. (A)
Johnson, C. F. (A)
Kaetel, H. C. (VA)
Kaiser, E. H. (A)
Kane, E. W. (M)
Kapke, K. O. (A)
Keppert, G. D. (A)
Khouri, A. (A)
Kircher, J. J. (A)
Klein, L. F. (A)
Kurylo, E. F. (A)
Laeser, P. B. (M)
Lieb, J. S. (A)
Limpel, E. J. (M)
Loeffler, H. F. (M)
Maklary, J. R. (A)
Marvin, P. R. (SM)
Matthias, L. H. (VA)
McClure, E. L. (A)
McMichael, J. T. (A)
Mereen, D. E. (M)
Morgan, F. B. (M)
Naughton, G. J. (VA)
Ollenburg, M. A. (A)
Osborn, M. W. (A)
Pfeifer, J. W. (VA)
Richard, N. J. (A)
Richardson, M. S. (VA)
Richelieu, C. C. (A)
Richter, W. (SM)
Roup, R. R. (A)
Rubinstein, H. W. (A)
Ruff, H. M. (A)
Seiser, E. O. (A)
Serota, R. M. (A)
Sharpley, J. A. (M)
Sherwood, E. T. (SM)
Siegel, E. J. (A)
Skiba, R. R. (A)
Smith, A. (A)
Sperry, L., Sr. (A)
Stavnes, S. A. (A)
Steffen, R. V. (A)
Van Zeeland, F. J. (M)
Wareing, H. F. (SM)
Watson, L. E. (A)
Weller, D. A. (VA)
Wilkerson, J. A. (A)
Wille, E. F. (A)
Williams, S. B. (A)
Wilson, R. F. (A)
Wolff, R. L. (M)
Zwarra, H. J. (A)

Minocqua
Martin, H. T. (A)

Neenah
Kuehl, W. J. (A)
Zabel, L. W. (M)

Oconomowoc
Gourlie, L. C. (A)

Oconto
Everson, H. K. (A)

Osceola
Papenfuss, C. A. C. (A)

Oshkosh
Bell, E. P. (A)
Williams, N. (VA)

Phelps
Brown, C. E., Jr. (A)

Port Washington
Bauer, E. J. (A)

Pound
Seils, H. A. (VA)

Poynette
Forrest, W. C. (A)

Racine
Campbell, R. H. (VA)
Daniels, V. L. (A)
Hachoogan, O. (A)

Richfield
Van Alstyne, A. B. (M)

Shawano
Priem, E. S. (A)

Sheboygan
Mayer, H. J. (A)
Willson, D. J. (A)

South Milwaukee
Harry, W. R. (VA)

Stetsonville
Pueschner, H. O. (A)

Superior
Bridges, W. C. (A)

Washburn
Vizanko, D. (A)

Waukesha
Davidson, G. L. (A)
Fordham, C. E. A. (A)

Wausau
Richardt, R. W. (A)

Wauwatosa
Aicher, L. C. (A)
Pinnow, R. L. (A)
Reinke, J. A. (A)
Watts, W. E. (M)
Wollaeger, L. A. (A)

West Allis
Dustman, H. C. (A)
Glade, H. E. (A)
Griffith, B. H., Jr. (A)
Prondzinski, R. C. (A)
Hoehne, V. M. (A)
Maltley, T. W. (A)
Reinke, H. J. (M)

West De Pere
Claridge, G. C. (A)
Stangel, W. (A)

Williams Bay
Code, A. D. (A)

Withee
Ristola, E. G. (A)

WYOMING

Casper
Hathaway, D. L. (SM)

Cheyenne
Grove, W. C. (A)

Laramie
Dailey, L. L. (A)
Trueblood, R. O. (M)

Rawlins
Seaverson, O. I. (VA)

Riverton
Knittle, D. L. (A)

Story
McHolland, C. L. (A)

Sundance
Clingan, H. E. (VA)

ALASKA

Beaudine, D. M. (A)
Bookout, P. G. (A)
Jacobs, G. B. (A)
Pace, R. A. (A)
Pierce, E. R. (A)
Sander, C. M. R. (A)

Anchorage
Crockett, D. W. (A)
Grimstad, E. J. (A)
Hageman, K. G. (A)
Johnson, C. A. (A)
Peterson, J. E. (A)
Prince, F. W. (A)
Rowe, V. G. (M)
Wagner, W. J. (SM)
Walker, R. E. (M)
Walker, R. T. (A)
Wayer, C. F., Jr. (A)
Wheaton, T. H. (A)
White, J. H. (M)
Whittaker, G. A. (A)
Wiley, T. N. (M)
Williams, G. T. (A)

Fairbanks
Graves, J. M. (A)
Walden, J. M. (A)

ARABIA

Homewood, C. (A)

ARGENTINA

Andrews, G. J. (SM)
Arnaud, J. P. (SM)
Bolwig, A. C. (A)
Ciancaglini, H. R. (A)
Copello, D. H. (A)
Coriat, J. L. (A)
Fernandez, L. A. (A)
Gomez, L. L. (A)
Iglesias, A. (A)
Imbimbo, T. (A)
Mainieri, A. J. (A)
Mazzanti, R. (A)
Mercader, R. L. (A)
Munoz-de Toro, A. (A)
Noviks, B. (A)
Pereyra, L. A. (A)
Perez, C. P. (A)
Pieschel, A. E. V. (A)
Stramazzo, L. A. (A)

Buenos Aires
Acerbi, R. S. (A)
Alzona, A. L. (A)
Ares, M. (A)
Arispe, J. S. (A)
Baldwin, E. V. (A)
Barcala, J. M. (A)
Bartolini, E. (A)
Benjamin, M. (A)
Bergara, F. C. (A)
Bermudez, J. (A)
Bonzo, H. M. (A)
Brandt, L. (A)
Burmester, E. R. R. (M)
Calvelo, J. P. (SM)
Cambre, C. A. (A)
Canepa, J. A. (A)
Capilla, A. (A)
Cassels, W. H. (A)
Cassiet, A. H. (A)
Castro, S. (A)
Cavallero, L. J. (A)
Cerrato, E. (A)
Consentino, A. T. (F)
Cook, W. A. (A)
Curto, E. L. (A)
Cutler, C. N. (A)
Dachin, N. V. (A)
Dario, T. C. (A)
Deniz, R. M. (A)
Del Favero, C. (A)
Di Marco, A. (M)
Di Nunzio, P. (A)
Edorna, O. F. (A)
Eiras, A. H. (A)
Eiras, R. (A)
Fernandez, O. C. (M)
Gandolfo, A. (A)
Garri, M. E. (M)
Gary, A., Jr. (A)
Giron, D. G. (A)
Glucksmann, A. (A)
Goldschvartz, J. M. (A)
Gonzales, F. (A)
Gonzales, R. I. (A)
Grant, F. W. (A)
Grant, I. C. (SM)
Graziani, E. D. (A)
Guardado, N. (A)
Gumpel, J. E. (A)
Guntsche, G. E. (A)
Guzzi, P. N. (SM)
Harris, F. (SM)
Hassein, A. (A)
Hastings, R. (M)
Hayes, G. W. (A)
Hiskin, J. (A)
Ibani, H. F. (A)
Isernia, A. R. (A)
Jadraque, J. M. (A)
Kapus, E. E. (SM)
Kechker, A. I. (M)
Klappenbach, W. (A)
Kline, L. (A)
Kobilsky, M. J. (M)
Koros, L. (SM)
Krahenbuhl, H. (A)
Laconca, F. (A)
Lafon, J. B. (A)
Langhi, M. A. (A)
Larrea, J. R. (A)
Libertino, P. (A)
Lopez, R. L. (A)
Magno, H. T. (A)
Malagamba, R. A. (A)
Malvarez, F. G. (A)
Malvarez, L. M. (SM)
Mansion, D. D. (A)

Maragliano, L. (A)
Martinez, J. (A)
Marsetti, E. J. (A)
Mazzeo, R. (A)
McLoughlin, R. P. (SM)
Mignorance, F. (A)
Mosler, G. M. F. (A)
Nadosy, A. (A)
Nicholson, A. A. (A)
Noizeux, P. J. (F)
Nunez, J. (A)
Odino, C. A. (A)
Onativia, J. M. (A)
Orzabal, R. (A)
Osorio, A. E. (M)
Packmann, E. N. (A)
Padilla, P. (A)
Pardo, E. M. (A)
Pedemenyou, M. L. F. (A)
Penin, R. L. (A)
Pikelin, J. (A)
Pintos, V. H. P. (A)
Pluss, C. P. (A)
Rey, S. D. (A)
Reidel, M. (A)
Richheimer, E. (M)
Ritter, E. W. (SM)
Rodberg, B. A. (A)
Roganti, M. S. (A)
Rojo, A. (A)
Rubio, J. M. (A)
Rueda, J. V. (A)
Sarli, M. V. (A)
Savalan, D. (A)
Scott, R. H. (SM)
Servidio, L. R. G. (A)
Simpson, L. C. (SM)
Sipman, L. C. (A)
Sitkovsky, V. (A)
Sussenguth, C. E. (A)
Svanascini, A. L. (M)
Tepper, J. L. (A)
Treurnicht, J. J. (A)
Valdes, S. A. (A)
Van Spankeren, G. H. (SM)
Visscher, J. F. (A)
Vuilliomenet, R. H. (A)
Westerdahl, S. B. (A)
Yoldi, D. (A)
Zweiger, E. A. (A)

AUSTRALIA

Canberra
(Federal Capital Territory)
Jeffery, C. N. (A)

NEW SOUTH WALES

Bartle, O. E. (A)
Beard, M. (A)
Benson, J. E. (VA)
Blair, K. A. W. (A)
Brooker, V. M. (SM)
Bushby, T. R. W. (SM)
Builder, G. (F)
Cooper, B. F. (M)
Crouch, E. C. (A)
Dobbie, L. G. (SM)
Formby, J. K. (A)
Fry, J. A. (A)
Green, A. L. (F)
Hall, G. G. (VA)
Hall, L. S. (SM)
Hannam, H. W. (A)
Hicks, G. J. (A)
Hooke, L. A. (SM)
Jones, C. R. (A)
Kerr, F. J. (A)
Knight, J. (A)
Larkin, J. H. (A)
Lucas, C. A. (A)
Martin, A. F. (A)
Oakley, G. L. (A)
Oldfield, R. (A)
Sekay, S. J. (A)
Swire, B. E. (A)
Treharne, R. F. (A)
Wardale, A. H. (M)
Wood, H. B. (VA)

Sydney
Allsop, R. C. (SM)
Bardin, W. F. (SM)
Bean, L. P. R. (SM)
Brown, G. P. (A)
Cansick, N. V. C. (A)
Cooper, B. F. (M)
Cross, C. E. (A)
Delaney, J. N. (A)
Dudman, V. H. (SM)
Gutman, F. (M)
Hibbard, L. U. (A)
Israel, B. F. N. (A)
Langford-Smith, F. (SM)
Mason, V. O. (A)
McDonald, A. S. (F)
Mingay, O. F. (SM)
Minnett, H. C. (A)
Munro, G. H. (SM)
Parish, H. C. (VA)
Shaw, R. H. (A)
Smith, A. C. (A)
Smith, F. L. (SM)
Stevenson, M. H. (VA)
Thom, F. W. P. (SM)
Thomas, A. B. (M)
Warner, J. (A)
Wyles, D. G. (SM)
Grant, G. R. (A)

QUEENSLAND

Brisbane
Grant, G. R. (A)
Ham, G. (VA)
McNicol, R. W. E. (M)
Webster, H. C. (M)

SOUTH AUSTRALIA

Allan, A. J. (A)
Willoughby, E. C. (A)

TASMANIA

Gee, W. C. (SM)
Jebb, T. K. (A)
Tuck, H. P. (VA)

VICTORIA

Boud, W. E. (A)
Clyne, E. M. (A)
Gerrand, J. H. (A)
McCulloch, G. R. (VA)
Murphy, W. T. (A)
Skirving, A. E. (A)
Webb, A. L. C. (VA)

Melbourne
Brodribb, M. I. (A)
Cains, R. J. T. (A)
Collins, R. J. (A)
Cox, L. V. (A)
Freeman, J. E. (A)
Glover, A. J. G. (A)
Hooper, E. M. (VA)
Pybus, A. W. L. (SM)
Rubenstein, S. J. (VA)
Serpell, N. (A)
Skelton, T. H. (SM)
Wirsu, O. L. (A)

WESTERN AUSTRALIA

Choate, R. S. (M)
Hayman, W. G. (A)
Muhling, C. H. (A)
Urquhart, M. S. (M)

BAHAMA ISLANDS

Hodgson, A. D. (A)
Hulme, H. (A)

BELGIAN CONGO

Rose, M. (A)

BELGIUM

Bourdon, R. G. (A)
Delvigne, A. F. (A)
Henroteau, F. C. P. (A)
Marique, J. (M)
Van Meel, G. M. (A)
Van den Meersche, A. J. (VA)

BRAZIL

Lacombe, C. G. (A)
Maia, J. R. D. (A)
Pradal, H. A. (A)

Rio De Janeiro
De Bustamante, I. S. (A)
De Medeires, L. A. (VA)
De Oliveira, A. M. (SM)
Dixon, G. P. (SM)
Do Carmo, A. C. (A)
Duncan, J. H. (M)
Heininger, W. W. L. (A)
Messer, H. G. (SM)
Pareto, J. V. (VA)
Pereira, D. B. M. P. (M)
Schulman, L. (VA)
Vuyk, W. (A)

Sao Paulo
Barbosa, H. (A)
Barzee, G. W. (A)
Beaman, W. G. (A)
De Arruda, P. R. (A)
De Macedo, A., Jr. (A)
De Mello, G. H. (A)
Fanta, P. (M)
Goldberger, E. M. (M)
Langdon, G. G. (A)
Meyer, L. V. (A)
Rubin, L. (M)
Woelz, A. L. (M)

BRITISH WEST INDIES

Barbados
Stewart, R. D. (M)

Bermuda
Hillier, R. J. (A)
Warwick, G. (A)
Watlington, F. W. (A)

Jamaica
Franklin, E. F. (A)
Gauntlett, G. A. R. (A)
Heaviside, M. G. (A)
Stone, B. C. (M)

Trinidad
Borde, E. H. (A)
Fung, J. H. (A)
Selin, F. R. (A)

CANADA

ALBERTA

Campbell, A. L. (A)
Ellis, J. M. (A)
Hunka, D. (A)
Rayner, H. C. (A)
Reagh, R. A. (A)

Calgary
Allan, W. K. (A)
Davis, A. P. (A)
Mason, G. A. R. (A)
Newhall, S. O. (A)
Partin, W. (A)
Smith, O. A. (VA)
Thompson, F. S. B. (A)

Edmonton
Kostashuk, S. S. (A)
MacDonald, D. L. (A)
Morton, W. G. (A)
Porteous, J. W. (A)
Rice, G. R. A. (A)
Usher, R. (A)

BRITISH COLUMBIA

Elphinstone, N. P. (A)
Mackenzie, D. G. (M)
Batt, F. E. (A)
Baylis, G. F. (A)
Gowans, W. K. (A)
Chorlton, D. J. (A)
Hall, J. B. (M)
Henderson, G. G. (A)
Jackson, A. (VA)
McLean, L. D. (A)
Pilling, J. (A)
Rose, F. W. (VA)
Schroter, E. (A)
Storgaard, E. (A)
Swonnell, H. (A)
Wighton, J. J. (A)
Wilkinson, J. G. (A)

Vancouver
Allard, E. V. (A)
Carpenter, D. D. (SM)
Chandler, G. C. (A)
Chisholm, E. (A)
Cushing, T. D. (A)
Davidson, H. H. A. (A)
Davison, J. M. (A)
Deshaw, B. F. (A)
Ellis, A. B. (M)
Gilmore, J. P. (A)
Gregory, A. H. (M)
Hings, D. L. (VA)
Koombes, I. (A)
MacLeod, H. J. (SM)
Marsh, R. A. (A)
Monasch, L. B. (A)
Murray, D. G. (A)
Norman, R. O. (M)
Quealy, O. H. (A)
Rome, A. H. (A)
Stevenson, E. B. (A)
Thomas, C. W. (A)
Tupper, B. R. (SM)
Worobec, W. N. (A)

Victoria
Clements, B. C. (A)
Gilbert, G. (VA)
Pearson, J. R. H. (A)
Rowley, H. (M)
Trainor, W. J. (M)

MANITOBA

Brown, J. R. B. (A)
Fisher, W. C. (M)
Fleming, J. Y. (A)
Hamilton, A. R. (A)
Horner, S. G. L. (M)
James, T. A. W. (A)
Lagasse, J. E. M. (A)
Pettersen, G. A. A. (A)
Rutherford, E. D. (A)

Winnipeg
Anderson, C. A. (A)
Body, H. T. (A)
Butchard, J. W. (A)
Campbell, C. J. (M)
Claydon, L. H. (A)
Close, J. (A)
Cole, W. A. (A)
Couzens, D. T. (A)
Cross, I. F. (A)
Dahlgren, A. M. (A)
Diamond, M. (A)
Galloway, N. D. (A)
Gissing, H. R. (A)
Griffin, F. F. (M)
Hooper, A. W. (A)
Hunter, A. W. (A)
King, R. W. (A)
Kinnear, H. W. (A)
MacDonald, P. A. (SM)
Mestery, S. (A)
Millar, J. P. (A)
Mills, G. J. (A)
O'Connor, J. F. (A)
Poloway, A. A. (A)
Rasmussen, H. E. (M)
Salton, L. V. (SM)
Simister, R. M. (A)
Sloker, G. H. (A)
Smith, E. D. W. (A)
Stevens, S. (VA)
Stillwater, J. (A)
Taylor, D. R. (M)
Thomas, R. D. (A)
Tremblay, C. E. (M)
Tritter, A. O. (A)
Ward, F. L. (A)

NEW BRUNSWICK

Bishop, J. G. (A)
Cassidy, S. B. (A)
Collins, F. E. (M)
Fournier, C. E. (A)
Hart, E. S. (A)
Laporte, J. M. (M)
Oulton, G. R. (A)
Redding, J. M. (M)
Smith, H. M. (A)

NOVA SCOTIA

Nova Scotia
Crooker, R. M. (A)
Hoyt, C. K. (A)
McLean, H. H. (A)
Rector, R. G. (A)

Halifax
Burchell, H. G. (M)
Dowden, C. B. (A)
Greig, A. W. (A)
Robertson, G. W. (A)
Roue, J. E. (M)
Spokowski, R. A. (A)

ONTARIO

Ainsworth, A. L. (SM)
Alcock, N. Z. (A)
Amendola, W. (A)
Anderson, W. H. (A)
Andrews, A. G. (A)
Arnold, C. P. C. (A)
Baldwin, C. O. (VA)
Baxter, R. F. (A)
Bayly, B. D. F. (F)
Bedford, C. F. (A)
Bell, J. W. (M)
Bennett, D. J. (A)
Berube, J. P. G. (A)
Birnie, A. (A)
Blow, A. H. (A)
Bonner, E. C. (A)
Boote, E. (A)
Brand, P. M. (SM)
Brown, R. M. (A)
Card, L. C. (A)
Chappell, K. L. (A)
Chinnick, R. F. (A)
Clark, S. M. (A)
Coburn, G. S. (A)
Cooper, J. R. (A)
Costanzo, P. A. (A)
Cottington, H. T. (A)
Cox, R. J. (A)
Coy, B. A. (M)
De Grey, E. H. (A)
Denike, E. H. (A)
Dewan, J. T. (A)
Dewar, J. A. (A)
Doan, G. F. (VA)
Doig, W. J. (M)
Ducasse, W. C. (A)
Eadie, F. S. (A)
Fieldhouse, C. M. (A)
Galloway, N. D. (A)
Gates, R. E. (A)
Graham, E. A. (A)
Green, R. L. (A)
Guess, A. L. (A)
Fox, C. A. (A)
Hall, G. H. (A)
Hallick, F. J. (A)
Hammond, E. (A)
Henshaw, C. H. (A)
Holmquist, C. A. (A)
Hone, D. W. (A)
Hunt, A. B. (SM)
Hutton, E. A. D. (M)
Jarvis, L. (A)
Keasey, E. T. D. (A)
Kenny, H. J. (A)
Kelterborn, W. H. (VA)
Kitces, S. (A)
Kravetz, A. J. (A)
Lawrence, F. G. (A)
Lawson, R. (A)
Logan, G. R. (A)
MacKay, G. (A)
Mann, D. E. (A)
McBride, J. D. W. (A)
McFadden, H. W. (VA)
McLeish, C. W. (M)
Mooney, R. E. (A)
Morton, J. A. (A)
Mott, H. E. (A)
Park, F. R. (M)
Parker, R. H. (A)
Parkinson, G. B. (A)
Pearson, J. L. (A)
Powers, R. G. (A)
Quance, R. A. (A)
Reilly, J. J. (A)
Richardson, L. E. (A)
Robinson, C. A. (VA)
Robinson, M. R. (A)
Rugg, H. H. (M)
Rutledge, C. H. (A)
Sangster, R. (A)
Saunders, C. T. (A)
Savigny, J. J. (A)
Scott, C. R. (A)
Shirley, Q. H. (A)
Spencer, A. J. (A)
Stacey, J. F. (A)
Stauffer, W. J. (A)
Steele, R. H. (A)
Stewart, R. I. (A)
Stimson, A. W. (A)
Swail, J. C. (A)
Sweet, J. L. (A)
Tanner, R. H. (A)
Thomas, A. (M)
Thomson, J. M. (SM)
Thompson, P. A. (A)
Underwood, C. C. (VA)
Vernon, H. (A)
Vollick, C. N. (A)
Walker, J. R. (A)
Ward, B. F. (A)
Ward, R. F. (A)
Ward, W. C. (A)
Ward, W. G. (M)
Warder, J. C. (M)
Watson, W. H. (A)
Watts, F. W. (A)

Werry, M. J. (M)
Williams, E. M. (A)
Williams, H. L. (A)
Wilson, W. E. C. (A)
Wylie, T. C. (M)

Kingston
Pollock, H. S. (A)
Stewart, H. H. (A)

Hamilton
Ainlay, A. (A)
Attack, H. G. (A)
Connor, J. J. (A)
Farley, T. S. (SM)
Furneaux, W. H. (A)
Goddard, R. C. (A)
Harris, L. R. (A)
Hayward, J. R. (A)
Lucyk, J. (A)
McIntyre, S. W. (A)
Olson, E. (SM)
Pickett, J. H. (A)
Richards, A. W. (A)
Ruse, E. (A)
Thomas, E. A. (A)
Thwaites, J. T. (SM)
White, R. H. (A)

Kitchener
Banks, F. A. O. (M)
Clark, W. B. (SM)
Clewes, T. W. (M)
Enns, E. G. (A)
Hammond, R. E. (SM)
Moutoux, E. A. (A)
Pollock, C. A. (VA)
Ritz, E. A. (A)
Smallwood, S. G. (A)
Underwood, B. H. J. (A)

Leaside
Byers, V. J. (M)
Fitzallen, J. H., Jr. (A)
Flynn, J. T. (A)
Palinm, E. L. (M)
Paterson, S. G. (M)
Pringle, F. V. (M)
Simmonds, L. C. (VA)
Van Dyk, T. (A)

London
Allen, R. L. (A)
Anderson, W. H. (A)
Athersych, F. B. (A)
Bach, J. R. (SM)
Baker, C. R. (M)
Bellis, M. P. (A)
Blackburn, W. J. (A)
Brait, A. A. (A)
Bright, J. E. (A)
Cahill, A. J. (A)
Dearle, R. C. (SM)
Downs, E. E. (A)
Field, P. A. (VA)
Fisher, F. J. (A)
Foster, G. L. (M)
Fowler, T. D. (A)
Gill, H. (A)
Goldby, A. R. (A)
Graham, B. (SM)
Gurd, R. H. (A)
Hadden, G. H. (M)
Hart, J. W. (A)
Howe, A. E. (A)
Hudson, G. W. (A)
Jarvis, G. C. (A)
Jeffery, J. (A)
Kimble, E. (A)
Laird, E. R. (A)
Langford, C. H. (A)
Lansing, L. M. (A)
Love, G. R. (A)
Lumsden, R. B. (A)
Madter, E. W. (A)
Oliver, L. (A)
Prodger, A. (A)
Robertson, J. D. (A)
Ross, A. L. (A)
Ruth, C. G. (M)
Sanders, G. E. (A)
Simpson, J. (M)
Strangways, D. H. (M)
Suchard, D. G. (A)
Tufts, R. M. (A)
Tull, E. H. (M)
Watkin, J. R. (A)
Williams, J. H. (A)
Wilton, R. (M)
Woonton, G. A. (SM)
Yeo, R. F. (A)
Yorke, C. J. (A)

Ottawa
Ballard, B. G. (SM)
Beauchesne, L. A. (A)
Bennett, J. R. G. (A)
Bennett, R. M. (A)
Breeze, J. E. (SM)
Britney, O. L. (M)
Brown, W. C. (A)
Browne, G. C. W. (SM)
Card, M. L. (A)
Carty, D. G. (A)
Carroll, D. V. (M)
Caton, W. A. (M)
Coffey, L. E. (M)
Creed, F. C. (A)
Cullwick, E. G. (SM)
Davis, G. A. (A)
Des Brisay, A. W. Y. (A)
Fawcett, G. M. (VA)
Field, G. S. (VA)
Fox, W. J. (A)
Galbraith, R. A. H. (SM)
Gilbert, M. (A)
Godfrey, G. F. (A)
Godwin, H. B. (A)
Hanna, F. M. (A)
Henderson, J. P. (SM)
Henderson, J. T. (SM)
Hoyle, W. G. (A)
Huang, G. T. C. (A)
Katchky, M. (A)
Kenniger, A. (M)
Kerr, G. O. (A)
MacKinnon, K. A. (SM)
MacMillan, J. G. (M)
McIntosh, J. A. (A)
McKendry, B. A. (M)
McKinley, D. W. R. (SM)
Merriman, H. O. (VA)
Miller, D. G. (M)
Miller, G. A. (A)
Modley-Jones, H. S. (A)
Nixon, F. G. (A)
Porter, E. F. (M)
Purvis, W. J. (A)
Redhead, P. A. (A)
Reiche, H. (M)
Rioux, P. G. (A)
Risteen, H. C. (A)
Robillard, P. A. (A)
Robinson, E. F. V. (M)
Rowlands, T. E. (A)
Ruedy, R. (A)
Rush, W. A. (F)
Scott, J. C. W. (M)
Simpson, F. W. (A)
Smith, A. H. R. (SM)
Smith, D. L. (A)
Smith, W. B. (M)
Staniforth, A. (A)
Surtees, W. J. (A)
Taber, H. E. (VA)
Tant, V. E. (A)
Waldock, D. A. G. (M)
Walsh, H. E. (M)
Welsh, W. (A)
Wilson, W. R. (VA)
Woodhead, R. C. (M)
Wright, G. M. (A)

Toronto
Adams, R. L. (M)
Alford, W. D. (A)
Amendola, W. (A)
Anthes, R. G. (SM)
Armitage, G. (M)
Armstrong, H. D. (VA)
Armstrong, J. W. (A)
Bain, J. R. (SM)
Ballinger, F. S. (A)
Balmer, P. D. (A)
Bamford, D. (A)
Barclay, A. P. H. (SM)
Bell, H. C. (A)
Blackett, L. G. (A)
Bow, A. (A)
Bowen, W. V. (A)
Bridgland, C. J. (SM)
Bridgman, J. M. (M)
Brodsky, S. (A)
Brophy, R. M. (SM)
Bullock, R. G. (A)
Burgess, N. M. (M)
Byers, H. G. (M)
Cairns, J. R. (A)
Calderone, A. C. (A)
Carew, S. J. H. (A)
Cartier, W. O. (M)
Cavanagh, R. T. (A)
Chapman, C. N. (A)
Childerhose, R. H. (M)
Chisholm, K. G. (M)
Choat, W. F. (M)
Corby, L. A. (A)
Cox, F. J. (A)
Crooks, T. E. (A)
Crossan, G. W. (A)
Dakin, O. C. (A)
Daly, J. J. (A)
D'Arcy, D. F. (A)
Dawson, H. S. (SM)
Diamond, S. (A)
Dike, E. E. (A)
Dinnin, A. J. (A)
Doyle, W. P. (A)
Dworkin, A. E. (A)
Eastwood, G. C. (A)
Edson, M. (A)
Eisen, D. M. (A)
Elliott, A. W. D. (A)
Else, S. C. (A)
Etches, E. D. (M)
Evis, F. A. (A)
Fabb, N. R. (A)
Fairfield, J. H. (A)
Filman, N. J. (A)
Fisher, G. W. (A)
Ford, J. S. (A)
French, H. A. (A)
Geiger, D. G. (SM)
Glazer, A. E. (M)
Goldin, H. C. (M)
Graham, H. E. (A)
Grier, R. W. (A)
Hackbusch, R. A. (F)
Hamilton, H. E. (A)
Harris, D. L. (A)
Harvey, H. A. (A)
Hawkins, J. E. (A)
Hawkins, R. M. (VA)
Heath, F. J. (SM)
Hedley, C. E. (A)
Heenan, P. J. (A)
Heffernan, C. S. (A)
Henderson, V. L. (M)
Henry, D. A. T. (A)
Hobbs, F. B. (VA)
Holm, H. R. (A)
Hoyles, H. A. (A)
Hunter, G. E. (A)
Hunter, J. B. (A)
Hunton, J. K. (A)
Irwin, D. A. (A)
Irwin, G. J. (SM)
Isserstedt, G. (M)
Jackson, H. W. (M)
Jones, R. (A)
Julien, G. (A)
Kelk, G. F. (A)
Kempling, H. W. (A)
Kennedy, J. R. (A)
Kidd, K. H. (A)
Lang, H. (A)
Lazowski, J. M. (A)
Leaver, E. W. (M)
Legris, E. W. (A)
Leonard, L. J. (A)
Leslie, J. M. (VA)
Lingren, C. E. (M)
Liss, I. M. (A)
Lloyd, C. G. (M)
Longstaffe, J. R. (VA)
Loucks, W. W. (A)
MacKay, F. S. (SM)
MacKenzie, K. (A)
Mackie, A. S. (A)
Madill, L. J. (A)
Marchant, C. (A)
Mason, V. V. (A)
Mathers, F. F. (A)
McAlpine, W. H. (A)
McCurdy, G. E. (M)
McLaughlin, G. H. (A)
Meyer, W. H. (A)
Michaud, R. (A)
Millen, T. I. (M)
Mounce, G. R. (M)
Mudry, J. (A)
Muller, R. (A)
Naylor, R. W. (A)
Norris, C. A. (SM)
Nylin, M. E. (A)
Paisley, S. R. (A)
Palin, E. L. (M)
Pantry, W. H. (A)
Parkhill, D. F. (A)
Patterson, M. C. (M)
Pfeiffer, J. T. (VA)
Philp, H. F. (A)
Pipe, G. E. (A)
Pointon, C. G. (A)
Pond, J. F. (A)
Posnikoff, P. W. (A)
Poulter, R. C. (SM)
Pounsett, F. H. R. (F)
Price, J. A. (M)
Price, L. M. (SM)
Putz, H. R. (A)
Richardson, C. L. (M)
Robertson, H. G. (A)
Robertson, J. J. C. (VA)
Robinson, W. A. (A)
Rosenthal, A. L. (A)
Schawlow, A. L., Jr. (A)
Sinclair, G. (SM)
Smith, E. W. (A)
Smith, W. R. (M)
Sterling, J. A. (A)
Stevens, K. N. (A)
Swan, E. O. (M)
Tetrault, F. J. (A)
Thompson, W. W. (A)
Thomson, J. R. (A)
Thornhill, J. R. (A)
Tipple, H. L. (M)
Tonkin, H. (VA)
Tovell, H. O. (A)
Joye, J. M. (A)
Turner, K. A. (A)
Warren, J. R. (SM)
Webster, C. G. (A)
Whittaker, E. E. (A)
Williams, J. (VA)
Wilson, J. E. (A)
Whyte, J. R. (A)
Yachimec, P. (A)

PRINCE EDWARD ISLAND

Murray, C. W. (A)
Rogers, K. S. (A)

QUEBEC

Anderson, G. H. (A)
Beaulieu, W. R. (M)
Bird, C. H. R. (VA)
Bird, L. T. (M)
Booker, C. C. (A)
Bull, V. G. (SM)
Clarke, J. L. (A)
Clarkson, L. (M)
Clerk, R. D. (VA)
Coffin, G. C. (M)
Cumming, J. E. (M)
Dean, W. W. H. (SM)
DuBerger, P. (A)
Dumka, J. (A)
Dumoulin, J. R. (A)
Elliott, L. W. (A)
Farmer, E. W. (VA)
Fortin, R. A. (A)
Fournier, R. (A)
Glinski, G. (M)
Haney, W. L. (M)
Hansen, A. K. (A)
Hayward, V. A. (A)
Kadish, J. E. (A)
Kelsey, E. S. (SM)
L'Allier, L. (M)
Letts, R. (A)
MacKimmie, G. B. (A)
Marceau, J. P. (VA)
Martin, J. H. (A)
McLean, D. D. (A)
McMurray, J. L. (VA)
McWilliam, E. A. (VA)
Montgomery, V. A. (A)
Morrison, W. B. (A)
Munson, J. F. (A)
Nadeau, A. G. (A)
O'Brien, F. G. (A)
Plamondon, C. (A)
Punchard, J. C. R. (SM)
Pouliot, J. A. (A)
Quance, F. R. (A)
Raynsford, R. P., Jr. (M)
Roach, C. L. (A)
Rosen, C. A. (A)
Rushbrook, S. H. (VA)
Sarault, G. E. (M)
Wade, D. (VA)
Wallace, R. F. (M)
Watson, A. D. (M)
Watson, G. D. (A)
Wright, C. M. (M)
Wright, D. F. (M)

Montreal
Alsop, S. E. (M)
Arbon, R. D. (A)
Archambault, G. (A)
Audet, H. A. (M)
Baily, F. A. A. (M)
Barrow, F. A. (VA)
Bayley, A. K. (VA)
Bernier, J. C. (SM)
Best, J. H. (A)
Blacker, H. L. (A)
Bonneville, S. (A)
Brereton, C. H. (SM)
Brian, J. M. (VA)
Burkett, K. V. (M)
Cahoon, R. D. (SM)
Campbell, D. K. (A)
Campbell, J. A. (SM)
Cardella, O. (A)
Carrick, W. E. (M)
Casian, W. R. (A)
Challis, W. L. (A)
Chipman, R. A. (SM)
Code, G. E. (A)
Collins, J. A. (M)
Conroy, J. M. (VA)
Davis, J. F. (A)
DePaul, V. A. (A)
Desaulniers, R. R. (M)
Dickie, W. G. (A)
Dobridge, R. W. (M)
Doherty, L. H. (A)
Doucet, M. (A)
East, L. A. W. (SM)
Filman, N. J. (A)
Fisher, C. B. (A)
Fisher, F. S. (M)
Fisher, S. T. (SM)
Fisk, P. (A)
Fitz-Henry, R. W. (A)
Fowlie, W. D. (VA)
Geddes, L. A. (A)
Gillean, I. (A)
Grainger, G. E. (A)
Grant, J. A. (A)
Groome, G. R. (A)
Hartley, M. S. (M)
Hayes, J. E. (VA)
Hayles, O. J. (A)
Hicks, B. C. (VA)
Hobson, W. (A)
Holzman, L. (VA)
Horsey, R. M. (A)
Howes, F. S. (SM)
Isaac, V. E. (A)
Jackson, J. E. (A)
Jaderholm, H. W. (VA)
Johnson, H. C. (A)
Jones, A. L. H. (A)
Katch, M. (A)
Kinsey, G. B. (A)
Klein, H. (A)
Knights, S. F. (M)
Knox, J. B. (SM)
Lalonde, R. P. (A)
Lanz, J. E. (A)
Lavalee, P. (A)
Lisle, J. R. D. (M)
Lunan, W. A. (A)
Malchow, M. E. (A)
Marriott, B. (A)
Marshall, G. K. (A)
Marshall, J. L. (M)
Martin, W. S. (A)
Mayhew, M. B. (A)
McDonald, D. J. (A)
McElhinney, G. S. (A)
McKee, D. A. (A)
McLean, M. D. (M)
McNeil, B. T. (M)
Meades, H. J. (A)
Meek, T. J., Jr. (A)
Michon, E. (A)
Miller, J. L. (A)
Mitchell, J. C. E. (A)
Nachfolger, N. (A)
Nichols, W. A. (SM)
Nienaltowski, W. (M)
Olding, N. R. (M)
Olive, G. W. (VA)
Ouimet, J. A. (SM)
Oxley, A. B. (SM)
Patrick, K. R. (SM)
Patience, A. M. (SM)
Pauch, J. E. (M)
Pavlasek, T. J. F. (A)
Payne, L. S. (SM)
Pratt, J. H. (M)
Provost, P. (A)
Pugh, J. E. (A)
Quart, R. D. (M)
Reilly, J. J. (A)
Richardson, W. G. (SM)
Ross, W. B. (VA)
Rowlatt, J. H. (M)
Schwartz, H. H. (M)
Seabrook, H. B. (M)
Sharp, V. E. (A)
Shaw, D. T. (A)
Sillitoe, S. (VA)
Smith, F. A. (A)
Smith, R. L. (A)
Soucy, C. I. (SM)
Steel, W. A. (SM)
Stephen, W. T. (M)
Thomson, J. J. (A)
Todds, J. G. (M)
Truesdell, E. N. (A)
Walker, A. S. (M)
Wallace, O. C. S. (A)
Waller, M. J. (A)
Watters, E. S. (M)
Watts, F. W. (A)
Wells, G. (A)
Whealy, J. E. (M)
Young, J. M. (A)

SASKATCHEWAN

Edwards, R. O. (A)
Elliott, J. R. (A)
Hobbs, J. (A)
Hoskins, L. C. (M)
Jacobson, A. E. (M)
Katz, L. (A)
Kowch, S. D. (A)
Michalenko, A. (A)
Reid, F. G. (A)
Simonsen, J. (A)
Storgaard, E. (A)
Welch, R. C. (A)

CANAL ZONE

Carr, S. O. (M)
Codington, J. H. (VA)
Mason, J. L. (A)
McKinney, A. (A)
Spears, R. W. (A)
Young, J. W. (VA)

CHILE

Elliott, S. J. (A)
Jones, N. (A)
Lira, A. (A)
Olavarria, E. A. (A)
Tost, A. S. (A)

Santiago
Abascal, N. (M)
Calcagni, H. P. (A)
Campos, C. S. (A)
Femenias, H. L. (A)
Germain, M. Z. (A)
Holley, T. A. (A)
Lienhard, J. W. (M)
Parodi, H. A. (M)
Parvex, J. M. (A)
Tost, A. P. (A)
Urbina, A. (A)
Vallarino, D. A. (A)
Wood, R. (M)

CHINA

Braude, A. N. (A)
Chang, C. C. (M)
Chang, S. L. (A)
Chang, T. C. (M)
Chiang, F. Y. K. (A)
Chien, F. C. (M)
Chou, C. (A)
Chou, T. (A)
Chu, C. M. (M)
Chuang, Y. S. (M)
Chung, H. P. (M)
Chwan, M. Y. (M)
Davies, R. J. C. (A)
Fung, K. W. (A)
Ging, L. S. (A)
Ho, L. C. (A)
Hock, T. C. (A)
Hsu, Y. L. (M)
Jen, L. (A)
Knipp, A. R. (SM)
Lee, H. T. (M)
Li, N. F. C. (M)
Liu, M. H. (A)
Luk, Y. K. (A)
Maa, D. Y. (M)
Morris, R. P. (M)
Monfon, L. (A)
Most, N. (M)
Pao, C. S. (A)
Shen, C. K. (A)
Shen, M. Y. (A)
Shen, T. C. (M)
Skerry, C. C. (A)
Tang, K. C. (A)
Threfall, A. J. C. (A)
Tornovsky, I. M. (M)
Wang, T. S. (A)
Wong, H. T. (A)
Wu, W. I. L. (A)
Yao, C. C. (A)
Yeh, L. P. (A)
Yeh, Y. C. (A)
Yin, Y. Y. (A)

COLUMBIA

Amore, I. (M)
Arboledo, C. E. (A)
DeMello, W. (SM)
Ingalls, R. S. (A)
Jones, N. (A)
Silva, W. (VA)
Stimler, S. (A)

COSTA RICA

Carazo, L. A. (VA)
Smith, P. B. (A)

CUBA

Armand, E. J. A. (A)
Arteaga, W. (A)
Chisholm, E. E. (A)
DeBoer, J. J. (A)
Easterbrook, L. J., Jr. (A)
Esteve, J. A. (M)
Guiral, R. L. (VA)
Heros, R. (A)
Hogg, C. B. (A)
Jimenez, G. L. (A)
Jimenez, M. A. (A)
Montes, J. V. (A)
Karman, R. B. (M)
Olmo, M. M. (A)
Polanco, G. (A)
Ramirez, C. G. (A)
Reguera, J. J. (A)
Sastre, A. C. (A)
Zamorano, A. (A)
Zanetti, C. E. (A)

CYPRUS

Dennis, F. L. (M)

CZECHO-SLOVAKIA

Bena, J. J. (A)
Caha, V. (A)
Krejcar, J. R. (A)
Spicak, K. J. A. (A)
Svoboda, J. J. (M)
Zacek, A. (M)

DENMARK

Bramslev, G. (A)
Bruun, G. (A)
Carstens, L. (A)
Christensen, C. L. (A)
Erstad, J. (A)
Jacobsen, H. V. (M)
Jensen, S. E. (A)
Langgaard, E. (A)
Morch, V. H. (A)
Nielsen, B. A. (A)
Pederson, N. T. (A)
Rybner, J. (VA)
Steffensen, J. (A)

DOMINICAN REPUBLIC

McCormick, L. P. (A)

EAST INDIES

North Borneo
Wade, C. F. N. (SM)

ECUADOR

Collins, E. W. J. (A)
Myhre, P. K. (M)

EGYPT

DeBarro, F. (A)
Mahmoud, H. M. (A)
Mathias, E. L. A. (A)
Reda, M. S. (M)
Rose, S. P. (A)

ENGLAND

BEDFORDSHIRE

Gill, D. M. (A)
Vedy, L. G. (A)

BERKSHIRE

Barton, F. S. (F)
Inall, E. K. (A)
Simons, A. H. (SM)
Sperring, F. E. (M)

BUCKINGHAMSHIRE

Boswell, I. I. (A)
Christmas, A. N. (A)
Crosfield, J. F. (A)
Dawe, F. W. (A)
Diver, F. G. (SM)
Gardner, A. J. (A)
Humphreys, T. D. (A)
Jeffery, A. D. (A)
Lee, G. (F)
Rhys-Jones, J. E. (A)
Scott-Taggart, J. (F)
Simmonds, J. C. (A)
Taylor, G. H. R. (A)
Walker, P. H. (A)

CAMBRIDGESHIRE

Bennett, L. F. (A)
Booker, H. G. (SM)
Budden, K. G. (A)
Dalgleish, J. W. (SM)
Edwards, B. J. (SM)
Germany, L. W. (M)
Liebmann, G. (A)
Mitra, S. N. (A)
Moullin, E. B. (SM)
Pound, J. P. (M)
Ratcliffe, J. A. (A)
Whitehead, J. R. (SM)

CHESHIRE

Davies, E. W. (A)
Fogg, J. (M)
Higham, E. H. (M)
McIlwrick, K. N. (M)
Rouse, F. W. D. (A)
Veevers, J. F. (A)
Vernon, B. H. (A)

CORNWALL

Pollard, J. (M)

CUMBERLAND

Bennett, H. V. (A)
Bowden, H. F. (A)
Nicoll, W. L. (VA)
Williams, C. E. (A)

DERBYSHIRE

Buckland, V. (A)
Holling, K. (M)
Marshall, R. V. (M)

DORSET

Bird, R. J. (SM)
Wilson, T. M. (A)

DURHAM

Herczeg, A. (A)
Patterson, T. C. (M)
Ross, C. G., Jr. (A)
Smith, H. C. (M)

ESSEX

Aikman, J. (A)
Amey, S. H. (A)
Bansal, S. K. (A)
Barnard, R. M. (A)
Beasley, E. W. (A)
Bulgin, A. F. (SM)
Cafferata, H. (M)
Churchman, A. (A)
Cooper, V. J. (A)
Crick, W. R. (M)
Davies, R. H. (SM)
Davis, N. E. (A)
Deeley, A. R. (A)
Ditcham, W. T. (SM)
Dyson, G. N. (A)
Eckersley, T. L. (F)
Edmunds, J. S. (A)
Esterson, M. (A)
Fierman, C. (A)
Helsdon, P. B. (A)
Irvin, J. L. (A)
Jones, E. (A)
Landman, A. (SM)
Larkins, D. H. (A)
Mitchell, R. J. (A)
O'Brien, D. (M)
O'Donovan, D. E. (A)
O'Neill, R. F. (VA)
Parker, J. W. (A)
Parkin, T. D. (VA)
Partington, G. E. (A)
Picken, W. J. (VA)
Pitts, W. J. (A)
Robb, J. G. (M)
Robertson, N. C. (SM)
Simmonds, R. E. (A)
Smith, S. B. (SM)
Sproule, D. O. (A)
Stamford, N. C. (SM)
Straw, F. W. (A)
Thompson, F. C. (A)
Tooley, M. D. (A)
Trott, R. J. (A)
Young, A. J. (A)

GLOUCESTERSHIRE

Attewell, T. H. D. (M)
Baillie, W. L. (M)
Ford, D. (A)
McCarthy, A. A. (A)
Van Ryn, B. (A)

HAMPSHIRE

Brooks, G. R. (M)
Chapman, J. P. J. (VA)
Fayers, A. A. (A)
Forsyth, P. G. (SM)
Hancock, C. T. (A)
Inskip, F. A. (VA)
Mallinson, W. D. (VA)
McPetrie, J. S. (SM)
Orba, A. (M)
Phillips, C. M. (A)
Reid, D. G. (VA)
Scotney, J. H. (M)
Whatman, A. B. (A)
Wheatley, B. M. (A)
Whitaker, G. C. (A)
Whitehead, E. D. (A)
Woods, C. H. (VA)

HERTFORDSHIRE

Allen, W. G. (M)
Blackwell, R. F. (M)
Catt, J. E. (SM)
Cattanes, E. (A)
Coales, J. F. (A)
Denton, A. D. (M)
Fryer, L. (A)
George, B. C. (A)
Harris, J. B. (M)
Hart, E. D. (M)
Hollinghurst, F. (A)
Johnston, D. L. (A)
Judd, A. N. (A)
Kaye, J. B. (VA)
Mortlock, A. (A)
Reyner, J. H. (SM)
Sproule, R. A. (A)
Strong, C. E. (SM)
Taylor, W. (A)
Truscott, D. N. (VA)
Williams, H. P. (SM)
Wintle, M. F. (A)

KENT

Binyon, B. (SM)
Bolton, L. J. (A)
Boutle, H. R. (A)
Crossfield, G. B. (A)
Dennett, L. J. (A)
Grubb, G. R. (A)
Hale, J. A. B. (A)
Hesse, C. M. (A)
Lawrence, E. (A)
Mabe, W. S. (A)
Minter, R. W. (SM)
Scroggie, M. G. (A)
Scully, C. T. (SM)
Shorland, H. (M)
Snowden, J. (A)
Spagnoletti, P. H. (A)
Stephens, C. J. (A)
Stoner, C. R. (M)
Stratton, A. (A)
Sutherland, J. G. A. (SM)
Tyrrell, A. J. (A)
Whitehouse, M. H. L. (M)

LANCASHIRE

Atkin, F. W. T. (A)
Chalmers, D. (A)
Clark, C. G. (A)
Copisarow, A. C. (M)
Couldwell, H. (A)
Fennessy, J. R. (M)
Fielding, E. A. (A)
Forrest, M. A. (A)
Hall, G. B. (A)
Harmsworth, A. (M)
Hunt, T. W. (M)
Leyland, A. J. (A)
Oxley, R. F. (SM)
Rollin, L. (A)
Searby, N. H. (SM)
Simpson, A. V. (SM)

Manchester
Friedlaender, E. R. (SM)
Horrocks, R. D. (A)
Ross, K. (A)
Sproson, J. (A)
Tomlin, G. M. (A)
Weaver, C. (M)

LEICESTERSHIRE

Mansell, L. H. (SM)

LINCOLNSHIRE

Claxton, M. E. (A)

LONDON

Abel-Harry, C. B. (A)
Adorjan, P. (SM)
Appleton, E. V. (F)
Ashbridge, N. (F)
Ashman, G. L. (A)
Beatty, W. A. (SM)
Beck, A. H. W. (VA)
Bedford, L. H. (F)
Benjamin, R. (A)
Billington, R. M. (A)
Bowden, B. V. (SM)
Boyle, H. (A)
Bradford, L. C. (A)
Brown, D. P. E. (A)
Brown, R. H. (M)
Brownless, V. T. (M)
Bruce, J. R. (A)
Budge, R. K. (A)
Cartwright, J. R. (A)
Chander, V. R. (A)
Cobb, F. A. (SM)
Cohen, I. J. (VA)
Conway, T. D. (A)
Cox, E. B. (A)
Crampton, W. J. (SM)
Crawley, J. C. W. (A)
Danielson, G. L. (A)
Dawe, P. G. M. (A)
DeGlanville, R. G. (A)
Doherty, E. J. (M)
Dorrington, W. H. (VA)
Earp, C. W. (SM)
Eckersley, P. P. (F)
Edes, N. H. (A)
Emery, E. J. (SM)
Faulkner, H. (SM)
Fryer, P. W. (A)
Gamsa, L. (A)
Godbold, B. C. (M)
Gould, N. G. (A)
Graf, V. V. (A)
Greig, J. (SM)
Griffiths, W. H. F. (SM)
Grove, S. H. (VA)
Hall, L. L. (A)
Hamilton, D. (VA)
Harrison, D. W. (A)
Head, J. E. (VA)
Heaton-Armstrong, L. J. (SM)
Hitchcock, J. S. (A)
Johnson, D. H. (A)
Kadenacy, J. (M)
Kirke, H. L. (F)
Knight, S. G. (A)
Lassman, H. H. (A)
Lawson, P. J. (A)
Levy, I. O. (A)
Lyons, C. L. (SM)
McMichael, L. (F)
Meyer, L. W. (SM)
Minton, M. (M)
Mirk, D. B. (SM)
Mole, J. H. (A)
Morgan, E. (A)
Nicholls, G. K. (A)
Oliver, E. (M)
Parchment, E. D. (A)
Payman, H. S. (SM)
Paynter, A. E. (M)
Parr, G. (SM)
Parsons, L. W. (A)
Petersen, T. G. (VA)
Philippart, H. A. S. (A)
Pilling, T. (M)
Pocock, H. S. (SM)

Roberts, F. F. (SM)
Roberts, R. S. (VA)
Rose, A. (A)
Schwarz, H. F. (A)
Sly, R. J. (A)
Smith, I. F. (M)
Southall, A. A. (A)
Sowerby, J. M. (A)
Starr, C. H. (SM)
Stott, H. T. (SM)
Stripp, W. G. (A)
Symonds, A. E. J. (VA)
Tickner, M. A. (A)
Tingey, R. (SM)
Toward, T. (M)
Troutbeck, W. H. (VA)
Twiss, A. R. (SM)
Ullrich, E. H. (F)
Vangeen, A. I. (A)
Varley, W. E. C. (A)
Wallace, T. (A)
Walmsley, T. (SM)
Waterton, P. J. (A)
Watson-Watt, Sir R. (F)
Wey, R. J. (A)
Wilson, A. G. (M)
Wood, K. P. (A)
Woods, A. R. (A)
Younson, E. J. (M)

MIDDLESEX

Balakrishman, C. (A)
Banthorpe, C. (A)
Barnes, R. (M)
Baxter, H. W. (A)
Boff, A. F. (A)
Bradford, R. (A)
Burgess, A. G. (A)
Cater, C. E. (M)
Cooper, W. H. B. (A)
Cox, F. (A)
Crossland, W. (M)
Dale, T. G. M. (A)
Davidson, C. F. (A)
Dyson, A. A. (VA)
Eliasen, E. (SM)
Farmer, J. C. (A)
Felton, N. F. (M)
Fisk, E. (F)
Gainesborough, G. F. (SM)
Gill, A. J. (F)
Greenfield, R. A. (A)
Greig, J. (SM)
Hansford, R. N. (A)
Hawkeswood, A. E. (A)
Hinton, W. R. (M)
Howse, H. A. G. (SM)
Keen, A. W. (M)
Lunt, C. (VA)
MacGregor, E. I. R. (SM)
MacLachlan, V. D. (M)
Maitland, C. E. (A)
McGillivray, J. A. (A)
McLean, F. C. (SM)
McPherson, W. L. (SM)
Mole, G. (A)
Montgomery, A. W. (SM)
Oldham, C. A. (A)
Pegg, B. A. G. (A)
Pressey, B. G. (SM)
Rapson, E. T. A. (A)
Reid, G. (M)
Singh, W. K. (A)
Solley, B. J. (M)
Starr, A. T. (A)
Steed, F. S. (A)
Thomas, H. A. (SM)
Visweswaraiah, H. S. (A)
Whiddett, S. D. (A)
Wishlade, W. P. (A)

NORFOLK

Hayes, J. (A)
McLaren, J. H. (A)
Newson, J. V. (A)
Rayment, K. I. (A)
Swinney, E. (A)
Wallace, R. B. (A)

NORTHUMBERLAND

Allen, W. S. (SM)
Bolam, G. D. (A)
Hodgson, C. C. V. (M)
Parsons, D. R. (SM)
Pattinson, K. (A)
Stranghan, T. A. (M)
Thomas, D. H. (A)

NOTTINGHAMSHIRE

Allan, A. H. (A)
Clipstone, A. E. (A)
Dabell, H. (A)
Exwood, M. (A)
Hancock, G. N. (SM)
Heald, D. W. (M)
Thomas, D. H. (A)

OXFORDSHIRE

Brownless, S. F. (VA)
Smyth, C. N. (SM)
Swenson, C. A. (A)
Wilson, G. L. (A)

SHROPSHIRE

Fay, P. J. (A)
Parkinson, W. R. (A)

SOMERSET

Attewell, T. H. D. (M)
Bargery, C. J. (A)
Clarke, A. C. (A)
Gibson, W. T. (SM)
Hayes, L. W. (F)
Macnee, D. H. (A)
Phillips, D. J. (M)
Scott, P. R. (VA)

STAFFORDSHIRE

Embrey, D. M. (M)
Gautby, H. R. B. (A)
Hardcastle, C. (A)
Taylor, D. (A)

SUFFOLK

Wilkins, A. F. (A)

SURREY

Bainbridge-Bell, L. H. (VA)
Baxter, C. (SM)
Beadle, D. G. (A)
Bishop, H. (F)
Bovill, C. B. (M)
Brennand, R. (A)
Carpenter, R. E. H. (SM)
Chaudhuri, M. (A)
Chorley, J. M. (A)
Clark, R. G. (SM)
Clarke, G. F. (A)
Collyer, D. J. (A)
Coursey, P. R. (A)
Dupree, F. H. (SM)
Ewing, E. G. (M)
Gabriel, R. P. (VA)
Goyder, C. W. (SM)
Griffiths, H. V. (SM)
Harvey, J. P. (A)
Hewlett, M. (A)
Hickson, P. W. (SM)
Hobday, S. W. (A)
Hornby, F. R. (A)
Howard, R. (A)
Jennings, R. E. (A)
Lane, C. V. (A)
Lear, P. R. (A)
Lee, W. H. (A)
Lerner, S. (A)
Megaw, E. C. S. (A)
Milsom, W. T. (A)
Moon, J. L. (A)
Nobbs, W. J. (A)
Payne, C. E. (VA)
Pendrill, E. M. (A)
Potts, E. (A)
Rehfisch, T. J. (A)
Ringham, G. B. (SM)
Roston, B. (A)
Rowe, J. H. (A)
Russell, A. W. (A)
Rzymowski, E. (A)
Silvester, D. D. (A)
Smith-Rose, R. L. (F)
Somerville, T. (SM)
Stopher, H. (A)
Thompson, A. E. (AM)
Tibbs, C. E. (A)
Truefitt, E. V. (A)
Walker, D. C. (A)
Whitney, L. C. (A)

SUSSEX

Kirkman, D. (A)
Reichman, B. J. (M)
Roberts, W. G. (A)
Shipp, G. E. (A)

ULVERSTON

Oxley, R. F. (SM)

WARWICKSHIRE

Binns, A. W. (A)
Hartley, K. A. (A)
Bloomer, A. (M)
Fishlock, R. C. (A)
Hulme, F. H. (M)
Kinman, T. H. (SM)
Robinson, C. A. (A)
White, G. J. (A)
Sanderson, R. (M)
Sharp, S. (A)
Williams, I. J. S. (A)
Wilson, R. (A)

BIRMINGHAM

Gardner, A. J. (A)
Jones, H. H. (A)
Kendall, J. S. (A)

WILTSHIRE

Abel, H. L. (M)
Brooke, H. A. (VA)
Cook, K. L. W. (A)
Elliott, B. C. (A)
Kidd, C. S. (SM)
Walmsley, H. C. (M)

WORCESTERSHIRE

Carter, C. J. (SM)
Carter, R. H. A. (SM)
Cooke-Yarborough, E. H. (M)
Dandy, E. (A)
Fogg, C. P. (A)
Fry, D. W. (A)
MacFarlane, G. G. (A)
Slow, E. C. (VA)
Smith, C. (A)
Stanley, K. R. (SM)
Wells, F. H. (A)
Wheeler, J. S. C. (A)

YORKSHIRE

Fozard, B. (A)
Gardner, D. H. (A)
Gautby, H. R. B. (A)
Ingham, W. E. (M)
Patchett, G. N. (M)
Pattinson, T. H. (A)
Stephenson, L. (A)
Thorp, R. (M)
Tipton, H. (A)
Weston, J. D. (A)
Westwood, D. (M)

FIJI ISLANDS

Exon, F. C. (SM)
Sam, J. A. (A)

FRANCE

Behm, L. F. (A)
Bussat, R. M. A. (A)
Besson, P. (M)
Chauchat, J. N. (M)
Chauvierre, M. (SM)
Chender, J. L. (A)
Churg, E. (A)
DeBozas, G. D. B. (A)
Fromageot, A. P. A. (SM)
Giboin, E. (SM)
Haubert, A. (SM)
Hoffmann, H. T. (A)
Levy, L. (M)
Lochard, J. C. (A)
Mandel, P. (A)
Nill, A. A. (A)
Penin, C. F. (SM)
Prache, P. M. (M)
Richon, E. (A)
Roncier, R. (M)
Surdin, M. M. (SM)
Toulon, P. M. G. (SM)
Touraton, E. R. (SM)
Vastel, J. F. (A)
Wasservogel, G. (A)
Wybrands, K. (M)

GREECE

Katzelis, N. G. (M)
Pezopoulos, K. N. (SM)
Siocos, C. A. (A)
Timmerman, F. (M)

GUATEMALA

White, R. F. (A)
Williams, W. D. (A)

HAWAIIAN ISLANDS

Atherton, J. B. (A)
Chang, D. C. (A)
Chung, J. K. S. (A)
Counsil, O. S. (M)
Dunlap, F. I. (A)
Florez, H. (SM)
Gray, G. P. (VA)
Grubb, D. L. (A)
Honea, L. W. (A)
Holbrook, J. G. (A)
Hutton, S. A. (A)
Imhoff, R. H. (A)
Jaeger, J. E. (A)
Janitschke, E. O. (VA)
Kekauoha, G. W. (A)
Larsen, D. A. (A)
Larson, C. O. (SM)
Miyake, I. (VA)
Nakao, G. H. (A)
Pang, D. L. (A)
Pierce, R. J. (A)
Sanders, J. R. (A)
Shryack, L. A. (A)
Takase, R. H. (VA)
Thornton, J. P. (VA)
Turner, H. E. (M)
Wheeler, F. K. B. (A)
Willard, R. S., Jr. (A)

HOLLAND

Bloemsma, J. (A)
Bontekoe, H. (A)
Breimer, S. (M)
Broersma, C. B. (A)
Gratama, S. (A)
Kaplan, S. K. (A)
Schotel, G. (SM)
Strutt, M. J. O. (SM)
Roorda, J., Jr. (A)
Van Der Mark, J. (A)
Van Der Pol, B. (F)

HUNGARY

Egri, E. (A)

ICELAND

Laxdal, H. (A)
Thorkelsson, S. (A)

INDIA

Bansal, S. K. (A)
Barrett, J. O. G. (M)
De Sarkar, S. S. (A)
Doshi, K. M. (A)
Ghose, A. (A)
Ghosh, S. R. (A)
Hannurkar, L. G. (A)
Iyengar, R. A. P. (M)
Joshi, C. P. (A)
Khotadia, K. M. (A)
Krishhamurty, J. (A)
Mahalingar, N. (A)
Mathur, K. B. (A)
Modaliar, P. S. S. (A)
Mojamdar, V. G. (A)
Paramasivayya, G. S. (M)
Ramadas, B. (A)
Rao, J. (A)
Rao, M. K. (A)
Rao, N. S. S. (SM)
Satyendra, K. N. (A)
Shah, C. C. (A)
Srivastava, T. N. (A)
Tandan, R. K. (A)
Vijayaraghavan, K. (A)

Bangalore

Bhatt, N. B. (SM)
Chatterjee, S. K. (M)
Das Gupta, S. (A)
Desikachar, P. R. (A)
Govindarajulu, S. (A) (A)
Krishnaswamy, K. R. (A)
Ramabhardran, S. (A)
Ramachandran, P. (A)
Ramaswamy, S. (A)
Rao, R. (A)
Swamy, M. V. K. (A)
Telang, V. S. (M)
Thacker, M. S. (A)
Vasan, S. S. (A)

Bombay

Dastur, J. B. (A)
De Figueiredo, B. F. (A)
Desai, R. L. (A)
George, K. E. (A)
Husein, A. E. (A)
Joshi, M. V. (A)
Kamat, V. Y. (A)
Kantebet, S. R. (SM)
Karanjia, K. F. (A)
Karnik, M. B. (A)
Marathe, D. H. (SM)
Nair, A. K. (A)
Pai, M. V. (A)
Patel, I. L. (A)
Phatak, R. K. (M)
Punekar, A. D. (A)
Ramamurti, T. V. (A)
Raman, A. A. (A)
Row, D. P. (SM)
Sampat, S. (A)
Shah, C. C. (A)
Shroff, T. R. (A)
Sreeramamoorty, D. (A)
Sukhadia, P. U. (A)
Toshniwal, B. D. (A)

Calcutta

Ahmed, W. (A)
Banerji, S. (A)
Gangopadhya, I. (A)
Ganguly, S. K. (A)
Kar, D. C. (A)
Pattabiraman, J. (A)
Potter, N. M. (VA)
Seam, S. L. (A)
Sen, B. B. (A)

Coimbatore

Narayanaswamy, K. (A)
Sarma, P. H. N. B. (A)

Lucknow

Bhashwam, S. R. (A)
Chakravarti, S. P. (SM)
Mishra, N. V. (A)
Misra, R. P. (A)
Prakash, C. (A)
Saroop, M. (M)
Sweet, C. M. (M)

Madras

Balasubrahmanyam, V. (A)
Belgamvala, M. K. (A)
Nagarajan, M. S. (A)
Nair, P. R. (A)
Narashimham, T. (A)
Natarajan, R. (A)
Pai, M. V. (A)
Ramasubramanyan, V. (A)
Ramanadham, R. (M)
Ramanathan, A. R. (M)
Rao, B. V. S. (A)
Rao, D. A. (A)
Rao, M. V. S. (M)
Rao, V. V. L. (SM)
Sastry, S. S. (M)
Sreenivasan, K. (SM)

New Delhi
Balakrishnan, T. P. (A)
Baliga, B. V. (A)
Datta, A. K. (A)
Pillai, K. N. R. (A)
Rao, G. V. (A)
Sathar, S. A. (A)
Sidhu, H. S. (M)
Verman, L. C. (A)

Poona
Aiya, S. V. C. (SM)
Talwalker, K. B. (A)
Toshniwal, G. R. (SM)

Secunderabad
Kannan, S. (A)
Mani, C. V. (A)
Varadarai, K. (A)

Trivandrum
Chako, M. V. (A)
Raja, M. V. R. V. (A)
Ramanthan, G. (A)

IRAQ

Rifaat, T. (A)
Swery, J. S. (A)

EIRE

Dublin
Ferguson, J. D. (SM)
Folan, A. J. P. (A)
McGovern, M. C. (A)
Mills, J. E. (A)
Mulhern, G. M. (A)
Poole, H. H. (A)

N. IRELAND

Coles, R. V. (SM)

ITALY

Ausenda, C. (A)
Banfi, A. (A)
Bargellini, P. L. (A)
Bertini, G. C. (A)
Bertolotti, S. (A)
Borsarelli, C. (A)
Ducati, A. (A)
Ducati, M. (A)
Egidi, C. (A)
Lecchi, P. A. (A)
Marino, S. (A)
Monti-Guarnieri, G. (A)
Pepe, G. (A)
Tescari, A. (A)

JAPAN

Madgwick, G. (SM)

KENYA COLONY

Gross, J. (A)
Paterson-Jones, E. A. (A)
Pegrume, S. A. (A)

LABRADOR

Grant, A. S. G. (A)

LEBANON

Kasakian, A. G. (A)
Shoukair, S. F. (A)

MALAYA

Gay, L. O. (A)
George, P. H. F. (M)
Hin, T. K. (M)
Kilmister, S. J. (A)
Llewellyn-Thomas, E. R. C. (M)
Stubbs, W. (M)
Talbot-Jones, R. V. (M)
Trafford, W. (A)

Singapore
Davies, R. J. C. (A)
Fairfax, O. M. (M)
Hock, T. C. (A)

MEXICO

Astorga, L. T. (VA)
Beckworth, J. R. (M)
Brisuela, M. G. M. (A)
Caballero, C. A. (A)
Carrillo, E. A. (A)
Claypool, W. S. (VA)
DeLara, T. M. K. (A)
Fernandez, M. A. (VA)
Horn, C. W. (F)
Guaragna, L. F. (VA)
Jara, F. S. (A)
Montes, G. R. (A)
Morones, L. (A)
Patron, A. E. (A)
Rodriguez, M. F. (A)
Vega, E. J. (A)

MOROCCO

Long, A. W. (A)
Solley, B. J. (M)

NEWFOUNDLAND

Brant, C. M. (VA)
Brown, W. A. (VA)
Byrne, P. J. (A)
Eades, E. P. (A)

NEW ZEALAND

Cholmodeley-Smith, D. R. (A)
Glassey, R. B. (M)
Guthrie, R. L. (A)
Henderson, B. G. (A)
Hodgkinson, T. E. (A)
Jack, R. (VA)
Land, J. R. (SM)
Leslie, D. A. (M)
Moore, J. (A)
Paulson, E. J. (VA)
Smith, C. A. (A)

Auckland
Blackwell, W. J. (A)
Chesterman, A. R. (A)
Ferguson, G. (A)
Hansen, I. C. (N)
Joseph, D. P. (A)
Kirton, F. N. (A)
Mayo, L. E. (A)
McDougall, N. R. (A)
McRae, I. H. (VA)
Orbell, R. J. (A)
Shackelford, J. W. (A)
Tonson, A. E. (A)
Walding, N. N. (A)

Wellington
Clarkson, T. R. (A)
Gilby, K. B. (M)
Harrison, W. L. (M)
Hurrell, L. W. (M)
McLennan, R. A. (SM)
Ryland, A. (M)
Sturton, C. H. (A)
Swann, N. W. (A)
Wadham, C. W. (A)

NORWAY

Maartmann-Moee, R. (A)
Nickelsen, J. C. (VA)
Overby, H. (M)
Taranger, A. (M)

PAKISTAN

Bhatt, V. J. (A)
Jagasia, H. R. (A)
Khosla, H. L. (M)
Qureshi, M. A. A. (A)

PALESTINE

Altmann, H. (A)
Baer, J. (A)
Dean, A. W. (A)
Kaplan, D. (A)
Kass, S. (M)
Palmer, J. R. B. (A)
Riesel, H. (A)
Scharerf, M. (A)
Zelinger, G. (M)

PANAMA

Chu, M. (A)
Lamparero, F. T. (A)
Mendez, L. (M)

PARAGUAY

Diaz, E. R. (A)
Schoemaker, J. P. (A)

PERU

Anderson, F. L., Jr. (A)
Bartet, J. F. (A)
Bruland, R. V. (M)
Egan, D. G. (VA)
Kline, J. (A)
LaPierre, V. M. (M)
Mujica-Quintanilla, L. (A)
Piazza, G. (A)
Rosene, K. (A)
Singleton, C. M. (A)
Sullivan, J. R. (VA)
Tringham, W. S. L. (A)
Valega, J. L. (A)

PHILIPPINES

Dayot, V. D. (A)
Reynolds, C. B. (M)
Rivera, T. L. (A)

PORTUGAL

DeBivar, A. M. B. (SM)
Fernandes, A. A. D. (M)
Victorino, J. M. (A)

PUERTO RICO

Ball, I. D. (SM)
Boyd, L. K. (A)
Cline, A. T., Jr. (M)
Dabrowski, J. H. (A)
Deig, J. J. (A)
Del Valle, A. P. (A)
Girard, P. A. (M)
Greer, W. N. (M)
Negroni, J. A. (M)
Perry, R. P. (A)
Petersen, R. L. (VA)
Rodriguez, F. V. (A)
Rodriguez, R. (A)
Ruiz, E. (A)
Rundlett, L. M. (M)
Schell, R., Jr. (VA)
Schwarz-Rexach, W. (A)

SCOTLAND

Bradley, J. H. (A)
Duerden, F. (M)
Dunn, S. C. (A)
Eaton, J. C. (M)
McAllister, C. L. (M)
McCallum, D. M. (A)
McLaughland, W. (A)
Oliver, C. J. (A)
Shearer, R. L. (M)

Edinburgh
Gregson, W. D. H. (A)
Groom, B. (M)
Khan, A. U. (A)
Oliphant, W. D. (SM)
Ryrie, K. S. (A)
Smail, J. E. (M)
Somerville, G. A. (M)

Glasgow
Gavin, M. R. (A)
Howie, R. C. (A)
Lenihan, J. M. A. (A)
Parton, J. E. (M)

SOUTH AFRICA

Ambrose, D. M. (A)
Boyce, C. F. (SM)
Cotty, W. F. (A)
Getsman, B. (A)
Haupt, G. E. (A)
Katz, L. (M)
Main, F. S. (A)
Morris, R. (A)
Olen, C. L. (A)
Phillips, W. E. (SM)
Semmelink, A. (A)
Smuts, M. N. (A)
Trainor, H. M. (SM)
Van Olst, M. D. A. (A)
White, A. W. (A)

Cape Town
Birrell, A. (A)
Brickhill, G. A. (A)
DeJong, A. C. (A)
Dunbar, J. (A)
Gilmour, R. R. (A)
Nutt, A. (A)
Waddington, J. K. (A)
Woods, A. R. (A)

Johannesburg
Aron, C. L. (A)
Bozzoli, G. R. (SM)
Dorney, T. A. (A)
Goetz, M. (A)
Hastings, D. J. (M)
Hers, J. (M)
Jacobs, A. J. (M)
Kitai, R. (A)
Krause, V. R. (M)
Kucera, F. L. (M)
Levison, J. (A)
Malan, D. G. (A)
Mendelowitz, M. (A)
Middleton, E. J. (A)
Patrick, P. E. (SM)
Rothenberg, H. (A)
Silbermann, H. (SM)
Sive, F. (A)
Stevens, B. J. (M)
Suttner, R. (A)
Troost, N. (A)
Van Der Bijl, H. J. (F)
Velleman, F. F. (A)
Vlok, T. C. B. (A)

SOUTH PACIFIC

Canton Island
North, R. S. F. (A)

SPAIN

Madrid
De Onis, A. (M)
Escolano, M. L. (M)
Huerta, A. F. (A)
Riaza, F. (M)
Urgoiti, R. M. (A)

SUDAN

Hudson-Davies, J. (M)

SWEDEN

Dyberg, T. (A)
Edsman, K. S. (A)
Granler, S. G. (A)
Granquist, C. E. (A)
Lundvall, B. H. (A)
Nelson, R. H. E. (A)
Olsson-Seffer, R. (A)
Roll, A. (A)
Schleimann-Jensen, A. (A)
Stannow, J. C. (A)
Svala, C. G. (M)
Svensson, R. (A)
Thompson, F. P. (M)

Stockholm
Aurell, C. G. P. (M)
Backmark, N. (A)
Blomberg, H. (M)
Chance, B. (SM)
Dalen, G. S. (M)
Lofgren, E. O. (SM)
Kruse, O. S. N. (A)
Lindstrom, G. (A)
Nilsson, B. N. A. (A)
Piip, A. T. (A)
Sivers, C. H. V. (SM)
Sterky, H. (A)
Sundquist, A. (A)
Werthen, H. L. O. (A)

SWITZERLAND

Anselmi, S. C. (M)
Christeler, A. (M)
Gloor, B. (A)
Guettinger, P. (A)
Maeder, M. (A)
Neck, H. (A)
Wertli, A. J. (SM)

Berne
Fontanellaz, G. (A)
Gross, G. C. (SM)

Baden
Biefer, H. (A)
Hancess, E. A. (A)
Klein, W. (A)
Schupbach, R. (A)

Geneva
Campbell, R. D. (SM)
Grise, G. M. (A)

Zurich
Angst, E. (A)
Atiya, F. S. (A)
Barbier, M. (M)
Block, H. (A)
DeQuervain, A. P. (A)
Diemer, F. (A)
Epstein, R. R. (A)
Guanella, G. (A)
Klauser, H. U. (A)
Klein, A. L. (A)
Rolf, P. (A)
Steinmann, W. X. (A)
Strohschneider, W. (SM)
Stuber, R. (A)
Tank, F. (A)

TANGANYIKA TERRITORY

Rowe, C. H. (A)

TURKEY

Ertan, C. (A)
Taskin, H. (A)

URUGUAY

Montevideo
Guimareas, A. (A)
Moran, W. F. (M)
Pomeroy, D. (A)
Valverde, R. D. (VA)

U. S. S. R.

Moscow
Wysotzky, M. Z. (SM)

VENEZUELA

Guitian, J. E. (A)
Siblesz, G. M. (A)
Sucre, R. (A)

Caracas
Morse, D. P. (A)
Pachano, P. I. (A)
Hackett, A. H. (M)
Santos, P. J. (M)
Shattuck, J. C. (A)
Stimler, S. (A)
Suarez-Flamerich, O. (A)

WALES

Boutle, H. R. (A)
Brown, W. C. (M)
Moston, H. A. (A)
Whale, G. S. (A)

Cardiff
Amis, F. H. (SM)
Walker, T. (M)
White, R. W. (SM)

WEST INDIES

Netherlands
Bouman, L. F. (A)
Van Haaren, R. H. C. (A)

The Directory Sections

How to use our Alphabetical and Product Directories

Part 2

The 1948 I.R.E. Yearbook contains three parts. Part 1 is the Institute of Radio Engineers Membership List, actually the largest published compilation of names of radio and electronic engineers. Part 2 (pages 1A to 96A) is an alphabetical directory of over 2100 firms serving or manufacturing for the radio-electronics industry. This index gives the firm name and address; and code numbers indicating 78 classifications of services, equipment, instruments and component parts as shown in the table to the right.

The completeness of this list depended upon information voluntarily supplied us. Our most vigorous efforts may not have made it complete. We will welcome additions and suggestions for the 1949 edition.

Part 3

Throughout Parts 2 and 3 are shown advertisements of firms which have seen in this useful Yearbook an opportunity to provide you with specific product data. These sponsoring companies have made it financially possible to provide a really comprehensive Yearbook to I.R.E. members. Their names are shown in bold type in the alphabetical list (Part 2) with cross reference to the page of their advertisements. In further appreciation for their support is the helpful index to their products which is Part 3, pages 97A-132A.

To find the advertisers of a given product, let us say "Vacuum Tubes," look this product up in the table to the right and you will see it is classification #69. Turn to this classification in Part 3. To find all firms known to us as making this product, scan the alphabetical list for those showing #69 in the products code. To locate a particular advertiser's ad, turn to page 132A to the Index to Advertisers.

Please submit all changes, corrections, additions and classification questions to Wm. C. Copp, c/o Proceedings of the I.R.E., 303 West 42nd St., New York 18, N.Y.

Key to Product Code and Product Index

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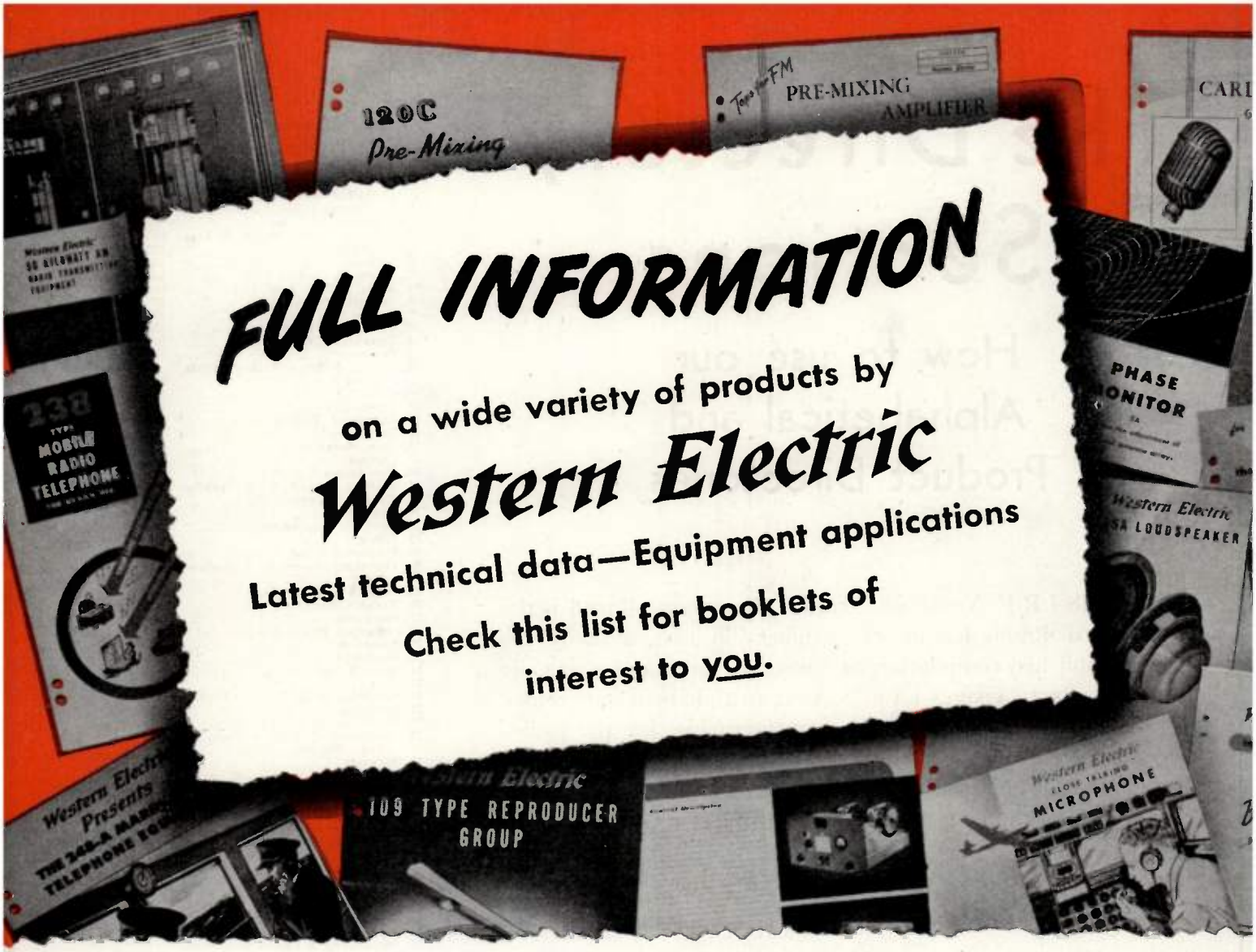

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A Method of Determining and Monitoring Power and Impedance at High Frequencies	6
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Accurate Spring Mfg. Co., 3835 W. Lake St., Chicago 24, Ill.—27
Ace Manufacturing Corp., Erie Ave. at K St., Philadelphia 24, Pa.—27
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Acme Battery Co., 59 Pearl St., Brooklyn 1, N.Y.—6
Acme Electric Corp., 44 Water St., Cuba, N.Y.—54, 66, 71
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Acme Fire Alarm Co., Inc., 106 7th Ave., New York, N.Y.—20
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Adams Laboratories, Inc., 525 W. 52nd St., New York 19, N.Y.—2
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Addison Industries, Ltd., 9-11 Hanna Ave., Toronto 1, Ontario, Can.—55
Adel Precision Prods. Corp., Burbank, Calif.—27, 35
Adirondack Radio Supply Co., 32 Guy Park, Amsterdam, N.Y.—94
Adler Mfg. Co., 2903 W. Chestnut St., Louisville 11, Ky.—8
Admiral Corp., 3800 Cortland St., Chicago 47, Ill.—55, 56
Advance Electric & Relay Co., 1260 W. 2nd St., Los Angeles 26, Calif.—59
Advance Electronics Mfg. Co., Inc., 657 Schuyler Ave., Kearny, N.J.—10
Advance Recording Prods. Co., 36-12 34th St., Long Island City, N.Y.—57
Advance Transformer Co., 1122 W. Catalpa St., Chicago 40, Ill.—66
Aero Electric Corp., 6916 Romaine St., Los Angeles 38, Calif.—15
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AiResearch Mfg. Co., 9851 Sepulveda Blvd., Los Angeles 43, Calif.—15
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Alden Products Co., 117 N. Main St., Brockton 64, Mass.—96, 9, 15, 22, 25, 26, 27, 31, 32, 43, 45, 49, 51, 62, 73
Alex Radio Laboratory, 1701 W. 25th St., Cleveland 13, Ohio.—94

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For the answers to your ELECTRONIC-MECHANICAL PROBLEMS...

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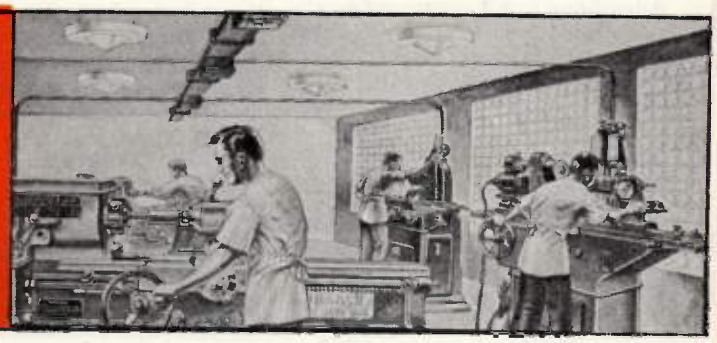
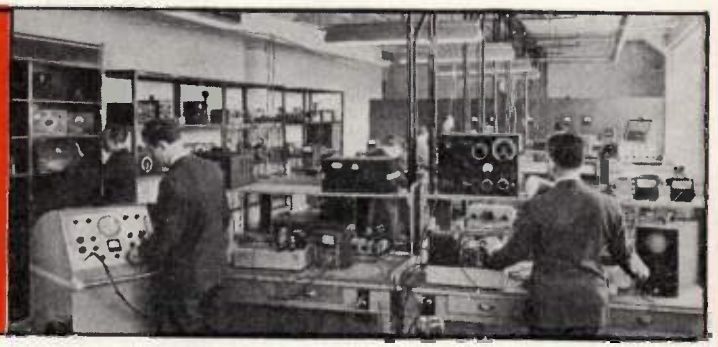


In the completeness of its departments, manpower and the skills and experience of its personnel, the Sherron Electronics Co. is organized to meet any challenge in the design, development and manufacture of: Communications equipment . . . Electronic Control equipment . . . Vacuum Tube Circuit development . . . Control of Measuring Devices . . . Instrumentation . . . Television Transmitters . . . Television Test equipment . . . Test Equipment for Components.

VIEW OF SHERRON ELECTRONICS LABORATORY



In broad terms, Sherron's Analytical Engineering-Manufacturing Service means . . . complete design, development, engineering and manufacturing of "precision electronics" equipment. Comprehensive, confidential — this service is exclusively for manufacturers. It is defined by these facilities, personnel and operations:

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Andrew Alford Consulting Engineers, 346 Somerville Ave., Somerville, Mass. —93

All American Tool & Mfg. Co., 1014 W. Fullerton Ave., Chicago 14, Ill.—65

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Allen Bradley Co., 114 W. Greenfield Ave,. Milwaukee 4, Wis.—59, 61

Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich.—65

Alliance Mfg. Co., Lake Park Blvd., Alliance, Ohio—42, 57

Allied Control Co., Inc., 2 East End Ave., New York 21, N.Y.—59

Allied Control Valve Div., Skinner Chuck Co., 40 Belden Ave., Norwalk, Conn.—20

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Allied Radio Corp., 833 W. Jackson Blvd., Chicago 7, Ill.—94
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The Louis Allis Co., 427 E. Stewart St., Milwaukee 7, Wis.—16, 41

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Alpha Wire Corp., 50 Howard St., New York 13, N.Y.—4, 9, 73

Aletc Lansing Corp., 1161 N. Vine St., Hollywood 38, Calif. Also, 250 W. 57th St., New York, N.Y.—2, 14, 34, 66

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American Condenser Co., 4410 Ravenswood Ave., Chicago 40, Ill.—10

American Cyanamid Co., Plastics Div., 30 Rockefeller Plaza, New York 20, N.Y.—50

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American Electrical Heater Co., 6110 Cass Ave., Detroit 2, Mich.—35
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American Microphone Co., Inc., 370 S. Fair Oaks Ave., Pasadena 2, Calif.—39, 48

American Phenolic Corp., 1830 S. 54th Ave., Chicago 50, Ill.—3, 4, 9, 15, 30, 31, 43, 47, 50, 51, 62, 64, 72, 73

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American Transformer Co., 178 Emmet St., Newark 5, N.J.—2, 14, 23, 66, 71

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SEE PRODUCT INDEX PAGE 1A

Typical insulators produced by Alsimag at very low cost

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WRH

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AMPERITE MICROPHONES

The ultimate in microphone quality, the new *Amperite Velocity* has proven in actual practice to *give the highest type of reproduction in Broadcasting, Recording, and Public Address.*

The major disadvantage of pre-war velocities has been eliminated—namely "boominess" on close talking.

- ***Shout* right into the new *Amperite Velocity*—or *stand 2 feet away*—the quality of reproduction is always excellent.**
- ***Harmonic distortion is less than 1%.* (Note: best studio diaphragm mike is 500% higher.)**
- ***Practically no angle discrimination . . . 120° front and back.* (Best studio diaphragm microphones . . . discrimination 800% higher.)**
- **One Amperite Velocity Microphone will pick up an entire symphony orchestra.**

P.G. Dynamic
Models PGH, PGL
List $32.00

STUDIO VELOCITY, finest in quality; ideal for Broadcasting and Recording.
Models R80H-R80L . . List $80.00
There is an Amperite Microphone for every requirement.

WRITE FOR ILLUSTRATED 4-PAGE FOLDER giving full information and prices.

Amperite
Velocity Microphones
for Public Address
Models RBHG, RBLG
List $42.00

"Kontak" Mikes
Model SKH, list $12.00
Model KKH, list $18.00

Address Inquiry attention Dept. I.R.E.

AMPERITE Company Inc.
561 BROADWAY NEW YORK 12, N. Y.

In Canada:
Atlas Radio Corp.
560 King St. W.
Toronto, Ont.

For truly fine recording and reproduction

PROFESSIONAL RECORDISTS USE *AND RECOMMEND* . . .

audiodiscs* and audiopoints*

Audiodiscs have all of the features essential to high fidelity recording. A superior lacquer is applied by a unique process that gives a flawless surface. In cutting, the thread throws well and there is no annoying static. In playback, whether at once or in the future, there is low surface noise. Their playback life is unequalled. There are six types of *Audiodiscs:*

RED LABEL tops all accepted quality standards for professional use. Double-sided in 6½", 8", 10", 12", and 16" diameters.

SINGLE FACE RED LABEL brings new economy to applications requiring but one side. 12" and 16" diameters.

YELLOW LABEL double-sided discs are of high uniform quality and the popular choice for all general purpose recording. Sizes same as Red Label.

REFERENCE permits extreme economy in test-cuts, filing and reference recordings. Double-sided in 10", 12" and 16" diameters.

MASTERS give fine results with either the gold sputtering or silvering process. The outstanding choice where pressings are to be made. Double or single face in 12", 13¼" and 17¼" diameters.

BLUE LABEL are low cost double-sided discs with the same recording lacquer as professional Audiodiscs, but on thinner aluminum base, 6½", 8" and 10" diameters.

*Reg. U. S. Pat. Off.

All Audiodiscs are manufactured on aluminum base.

AUDIODISCS are manufactured in the U. S. A. under exclusive license from PYRAL, S.A.R.L., Paris

AUDIO DEVICES, INC., 444 MADSION AVE., N. Y. C.

EXPORT DEPT: ROCKE INTERNATIONAL, 13 East 40th Street, New York 16, N. Y.

they speak for themselves

AUDIOPOINTS, made by skilled craftsmen, are the finest recording and playback styli obtainable. There are four types of recording and four types of playback AUDIOPOINTS.

RECORDING AUDIOPOINTS

SAPPHIRE No. 14, for professionals, designed to give proper thread throw. Dural shank. No finer made.

SAPPHIRE No. 202, a less expensive but fine recording point for use by those not requiring the super quality of No. 14 Sapphire. Brass shank.

STELLITE No. 34, professional type. Cuts quiet, shiny grooves for several hours. Brass shank.

DIAMOND LAPPED STEEL No. 50, cuts a fine, quiet groove. Each gives from 15 to 30 minutes actual recording time.

PLAYBACK AUDIOPOINTS

SAPPHIRE No. 113, finest obtainable. Complete fidelity and minimum disc wear. For original recordings and vinylite transcriptions.

"RED CIRCLE" SAPPHIRE No. 103, straight dural shank. One of the best playback points obtainable. For use on original recordings, transcriptions and phonograph records.

"RED CIRCLE" SAPPHIRE No. 303, bent dural shank. One of the best playback points obtainable. Particularly useful in heavy pickups for original recordings. The ideal phonograph needle.

STRAIGHT SHANK STEEL No. 151. The most practical point for general use. Each point has passed a shadowgraphed test.

Our Resharpening Service gives real economy in the use of AUDIOPOINTS Nos. 14, 202, 34, 113, 103 and 303.

MEASURING SPEED AND ACCURACY

-hp- Model 200C
Resistance-Tuned Oscillator

-hp- Model 206A
Audio Signal Generator

-hp- Model 300A
Wave Analyzer

-hp- Model 330B
Distortion Analyzer

FUNCTION	MODEL	FREQUENCY	CHARACTERISTICS
LOW FREQUENCY STANDARDS	100A	100 kc, 10 kc, 1 kc, 100 cps	Accuracy 3 cps per mc per degree Centigrade
	100B	100 kc, 10 kc, 1 kc, 100 cps	Temperature controlled; accuracy 0.001%
FREQUENCY DIVIDER	110	100 to 10 cps	Controlled by 100A or 100B. Multipliers also available up to 1 mc
RESISTANCE-TUNED OSCILLATORS	200A	35 to 35,000 cps	Output 1 watt into 500 ohms; 1% distortion
	200B	20 to 20,000 cps	Output 1 watt into 500 ohms; 1% distortion
	200C	20 to 200,000 cps	Output 10 volts into 1,000 ohms; 1% distortion
	200D	7 to 70,000 cps	Output 10 volts into 1,000 ohms; 1% distortion
	200I	6 to 6,000 cps	Frequency setting closer than 1%; output 10 volts into 1,000 ohms; 1% distortion
	201B	20 to 20,000 cps	Output 3 watts at 1% and 1 watt at ½% distortion into 600 ohms
	202B	½ to 1,000 cps	For low frequency studies. Output 10 volts into 1,000 ohms; 1% distortion
	202D	2 to 70,000 cps	Output 10 volts into 1,000 ohms; 1% distortion
AUDIO SIGNAL GENERATORS	205A	20 to 20,000 cps	Output 5 watts, 1% distortion into impedances of 50, 200, 600, 5,000 ohms. Output VTVM and 110 db attenuator, 1 db steps
	205AG	20 to 20,000 cps	Same as 205A, plus separate VTVM for complete gain measurements
	205AH	1 to 100 kc	Output 5 watts, 3% distortion into 50, 200, 500, 5,000 ohm impedances. Output VTVM and 110 db attenuator, 1 db steps
	206A	20 to 20,000 cps	Output +15 dbm with less than 0.1% distortion into 50, 150, 600 ohm impedances. Output VTVM and 111 db attenuator in 0.1 db steps
SQUARE WAVE GENERATOR	210A	20 to 10,000 cps	Output 50 volts peak to peak; 1,000 ohm internal impedance; 70 db attenuator, 5 db steps
WAVE ANALYZER	300A	30 to 16,000 cps	Variable selectivity; measurement range 1 mv to 500 volts; 5% accuracy

Precision accuracy, ease of operation, fast measurements, compact size, rugged durability—those are family characteristics of -hp- laboratory instruments. For electronic measurements anywhere—laboratory, production line, radio station or amateur's shack.

THROUGHOUT THE ELECTRONIC FIELD

FUNCTION	MODEL	FREQUENCY	CHARACTERISTICS
DISTORTION ANALYZERS	320A	400 cps and 5 kc	Measures total distortion as low as 0.1%. 70 db attenuator, 1 db steps for comparison
	320B	50, 100, 400 cps and 1, 5 and 7.5 kc	Same as 320A
	325B	30, 50, 100, 400, 1,000 cps; 5, 7.5, 10 and 15 kc	Measures total distortion as low as 0.1%. Input amplifier and complete VTVM each usable separately
	330B	Any frequency 20 to 20,000 cps	Similar to 325B but measures at any frequency and includes AM detector
	330C	Any frequency 20 to 20,000 cps	Similar to 330B, no AM detector. Meter has VU characteristics to meet FCC requirements for FM broadcasting
FM BROADCAST MONITOR	335B	88 to 108 mc	FCC approved. Monitors carrier frequency and modulation. High fidelity output for aural monitoring
ATTENUATORS	350A	Max 100 kc	110 db, 1 db steps; 5 watts, 500 ohm level. Bridged T type. Accuracy 1 db in 50 db at 100 kc
	350B	Max 100 kc	Same as 350B but 600 ohm level
VACUUM TUBE VOLTMETERS	400A	10 cps to 1 mc	Nine ranges 0.03 to 300 volts full scale. Accuracy ±3% to 100 kc, ±5% to 1 mc. Average reading. Calibrated in rms.
	410A	20 cps to 700 mc	AC: six ranges 1 to 300 volts. DC: seven ranges 1 to 1,000 volts. Resistance: seven ranges 0.2 ohm to 500 megohms
AMPLIFIERS	450A	10 to 1,000,000 cps	40 db and 20 db stabilized gain. Input impedance 1 megohm shunted by approximately 15 uuf.
ELECTRONIC FREQUENCY METER	500A	5 cps to 50 kc	Ten ranges, ±2% accuracy. Input 0.5 to 200 volts
ELECTRONIC TACHOMETER	505A	300 to 3,000,000 rpm	Ten ranges, ±2% accuracy
	505B	5 to 50,000 rps	Same as 505A except calibrated in rps
SIGNAL GENERATORS	610A	500 to 1,350 mc	Calibrated output 0.1 microvolt to 0.1 volt. Internal pulse modulation. Direct calibration
	616A	1,800 to 4,000 mc	Direct reading. Pulse modulation, CW and FM. Calibrated output 0.1 microvolt to 0.2 volts
	650A	10 cps to 10 mc	Direct reading. Six bands. Output 3 volts to 600 ohm load. VTVM and output attenuator
POWER SUPPLY	710A		Any dc voltage 180 to 360 for 0 to 75 ma load; approximately 1% regulation. Also 6.3 volts, 5 amps ac.

-hp- Model 400A
Vacuum Tube Voltmeter

-hp- Model 410A
Vacuum Tube Voltmeter

-hp- Model 610A
UHF Signal Generator

-hp- Model 650A
Audio Signal Generator

Brief specifications of internationally known -hp- instruments appear here. For full details see -hp- Catalog 19-A, available on request.

hp laboratory instruments
FOR SPEED AND ACCURACY

HEWLETT-PACKARD COMPANY
1673A PAGE MILL ROAD · PALO ALTO, CALIFORNIA
Export: Frazar & Hansen, 301 Clay Street, San Francisco 11, California

1,000,000,000 to one!

with these BALLANTINE instruments

10 MICROVOLTS to 10,000 VOLTS

***ONE BILLION TO ONE*—This enormous range of AC voltages—is easily covered by the Model 300 Voltmeter, Model 220 Decade Amplifier and Model 402 Multipliers illustrated above. The accuracy is 2% at any point on the meter scale, over a frequency range of 10 cycles to 150 kilocycles. The Model 300 Voltmeter (AC operated) reads from .001 volt to 100 volts, the Model 220 Amplifier (battery operated) supplies accurately standardized gains of 10x and 100x and the Model 402 Multipliers extend the range of the voltmeter to 1,000 and 10,000 volts full scale.**

Descriptive Bulletin No. 10 Available

BALLANTINE LABORATORIES, INC.

BOONTON, NEW JERSEY, U.S.A.

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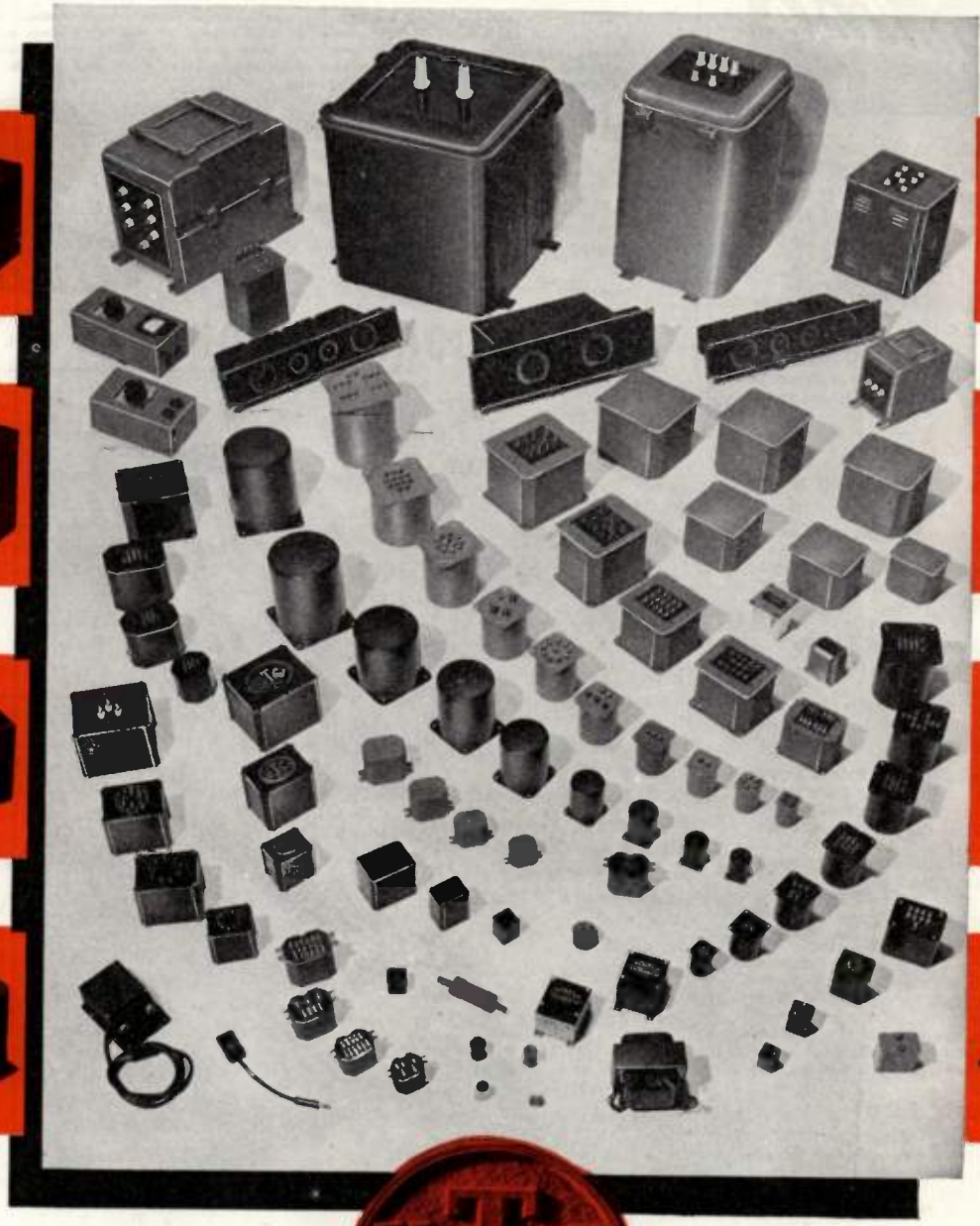
TRANSFORMERS FOR EVERY APPLICATION

LINEAR STANDARD

HYPERM ALLOY

ULTRA COMPACT

COMMERCIAL GRADE



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SPECIAL SERIES

VARIABLE INDUCTOR

Foremost Manufacturers of Transformers to the Electronic Industry

United Transformer Corp.

150 VARICK STREET • NEW YORK 13, N. Y.

EXPORT DIVISION: 13 EAST 40th STREET, NEW YORK 16, N. Y., CABLES: "ARLAB"

Specialists

in the design and manufacture of High Voltage Power Supplies; High Voltage Low-Drain Kilovoltmeters; Electronic Microammeters; Custom-Built Industrial and Research Electronic Equipment.

STANDARD PRODUCTS INCLUDE:

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Series 101: 50,000 ohms per volt Kilovoltmeters, 20 microamperes full-scale drain. Single-range instruments; portable; safe. Available up to 50 KV.

Series 111: Non-portable Consists of high-voltage multiplier and separate meter. Standard instruments up to 150 KV. Higher ranges available.

Series 121: Multirange instruments. Lowest voltage range at 50,000 ohms per volt; higher ranges have proportionately lower sensitivities (fixed voltmeter resistance on all ranges). Available up to 60 KV.

0 to 30 KV DC PORTABLE POWER SUPPLIES

Series 201: Rectified 60 cycle power supplies; output Variac controlled. Positive or negative polarity available. Maximum current 2 ma.; 300 microamperes at 30 KV. Control panel removable for remote operation.

Series 501: Frequency-Modulated Pulsed Power Supplies. Lightweight, adjustable low-current high-voltage power supplies. Extremely close regulation over working range. Inherent protection against short-circuits. Available in 0-15, 0-30 KV ranges, positive polarity. Negative output on special order.

D.C. ELECTRONIC MICROAMMETERS

Series 301: A.C. operated instruments; 0.01 microamperes full-scale to 100 microamperes full-scale in five decade ranges. Meter cannot be damaged by overload. 40 millivolts input for full-scale deflection on all ranges. Reads down to 0.0004 microamperes, as a microammeter. When used as null-detecting galvanometer, will respond to 0.0002 microamperes.

PEAK READING KILOVOLTMETERS

Series 400: For reading either positive or negative peak voltages of sinusoidal or irregular wave forms, such as ignition coil voltages, neon sign transformers, radar pulses, etc. Single or multirange, up to 50 KV peak. Built to specifications.

ELECTRONIC RHEOSTATS

Series 601: Resistance continuously variable from 1 megohm (or below, on special order) to above 100,000 megohms, at 15 KV DC. Available for either positive or negative voltages, or both terminals insulated for high voltage. 15 KV insulation available on standard units. Higher voltage ratings built to order. Available with or without current and voltage meters.

We also design and build compact high-voltage power supplies, of 150 KV rating and higher, to meet voltage, current, ripple and regulation specifications.

Reliability, small size, rapid delivery and low cost are featured in our designs. A prompt quotation will be given upon receipt of specifications.

Field engineers are at your service, in all parts of the country, to give you further information about our equipment.

BETA ELECTRONICS CO.
1762 Third Ave., New York 29, N. Y.

COMPOUNDS

Scientifically compounded for specific applications from waxes, resins, asphalts, pitches, oils, and minerals. Available in wide range of melting points and hardnesses. Special potting compounds are heat conducting and crack resistant at extremely low temperatures. Recommendations, specific data, and samples will be furnished on request.

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IMPREGNATING
radio coils
transformer coils
ignition coils
wire coverings
paper tubes and forms
porous ceramics

DIPPING
Coils
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Condensers

SEALING
condensers
batteries
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socket terminals
light fixtures

POTTING
Radio Transformers
Light Units
Loading Coils
Condensers

BIWAX CORPORATION
3445 HOWARD STREET
SKOKIE, ILLINOIS

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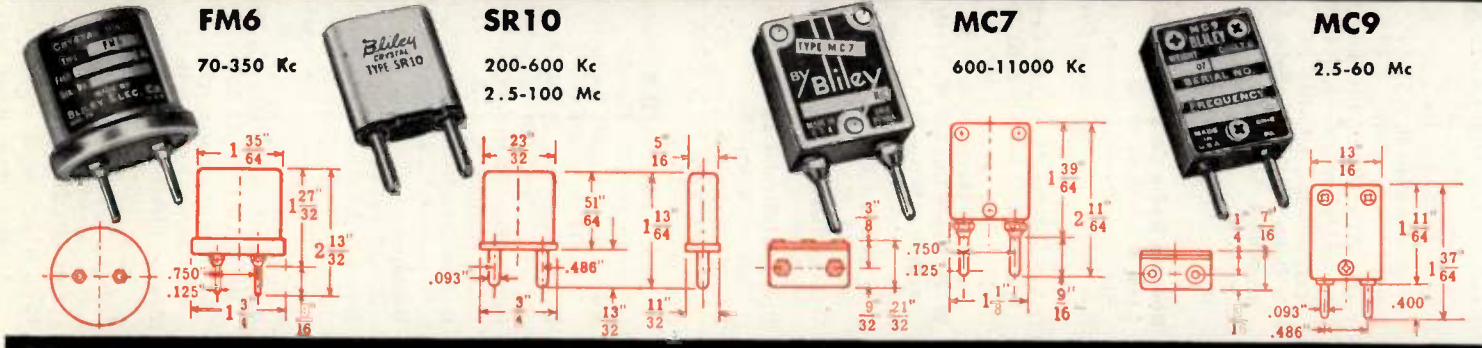
DEVELOPERS AND MANUFACTURERS OF
TELEMETERING SYSTEMS AND COMPONENTS

Pacific Division
Bendix Aviation Corporation
NORTH HOLLYWOOD, CALIF.

Bliley CRYSTALS FOR COMMERCIAL APPLICATIONS



FM6
70-350 Kc

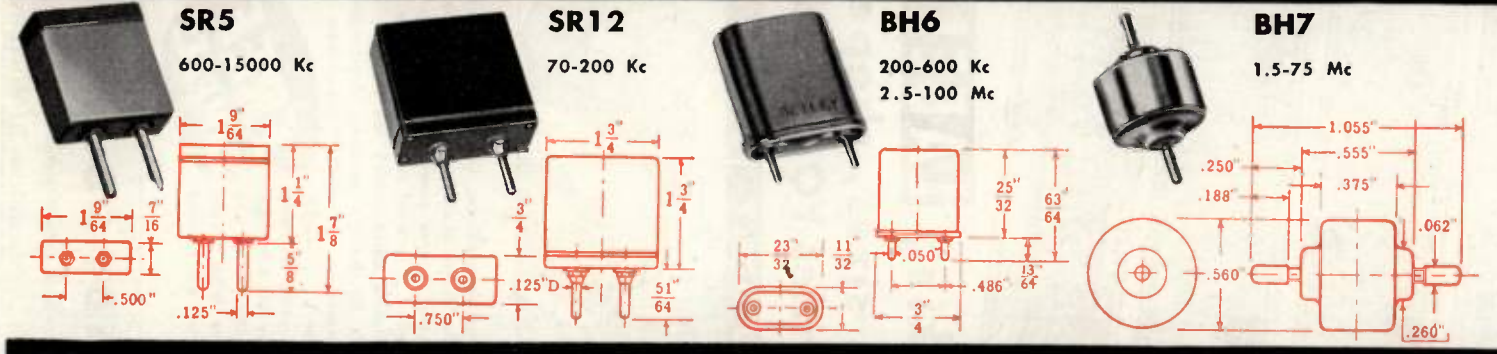
SR10
200-600 Kc
2.5-100 Mc

MC7
600-11000 Kc

MC9
2.5-60 Mc

Bliley crystals are custom-built to your requirements. Specify operating tolerance of your equipment and temperature range encountered in service. Be sure to include a schematic of your oscillator circuit.

Bliley CRYSTALS FOR MILITARY APPLICATIONS



SR5
600-15000 Kc

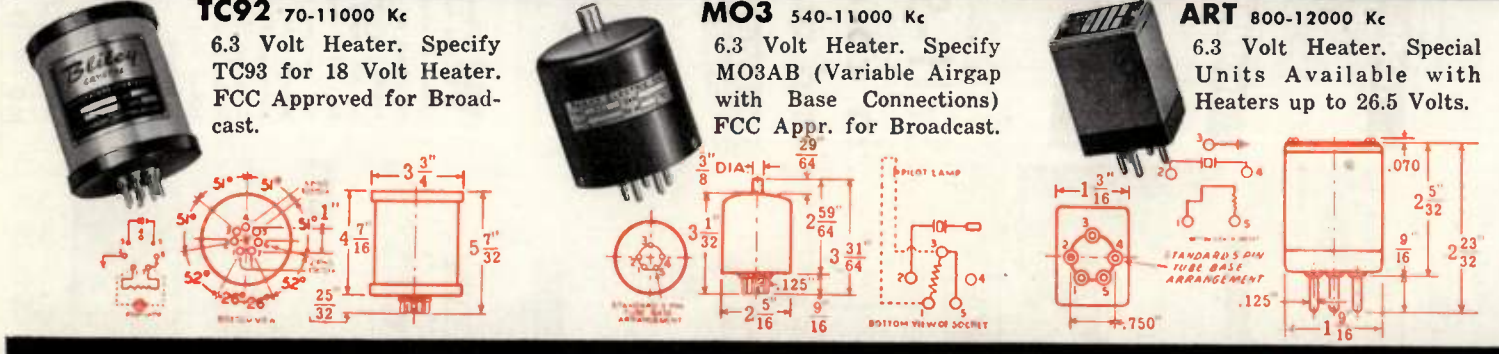
SR12
70-200 Kc

BH6
200-600 Kc
2.5-100 Mc

BH7
1.5-75 Mc

The crystal units in this group are most often required by military specifications. When ordering, give military crystal type designation and number of specification governing crystal performance.

Bliley TEMPERATURE CONTROLLED UNITS FOR PRECISION APPLICATIONS



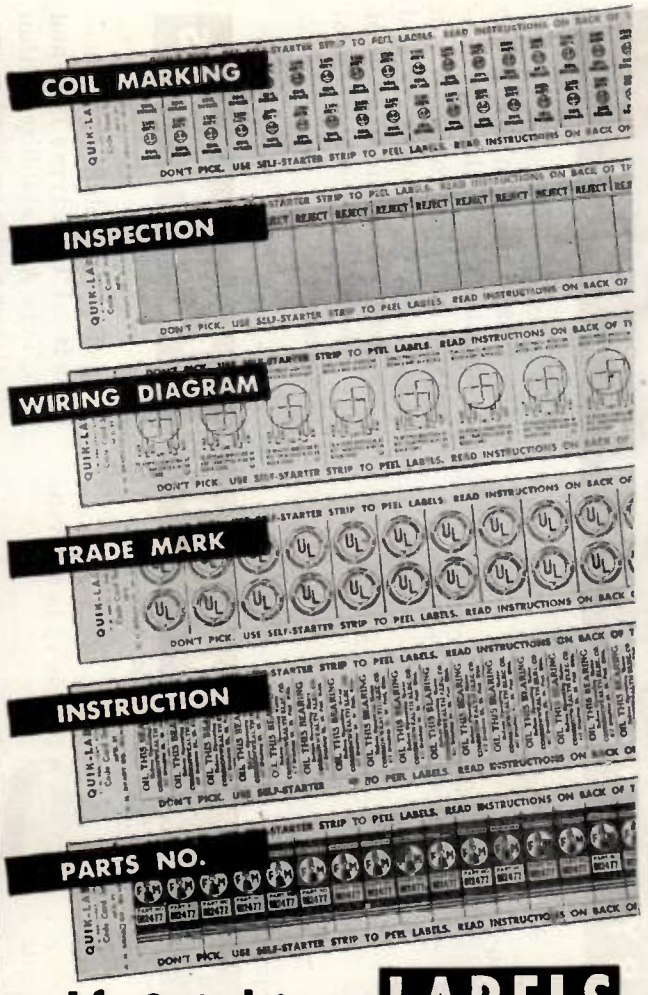
TC92 70-11000 Kc
6.3 Volt Heater. Specify TC93 for 18 Volt Heater. FCC Approved for Broadcast.

MO3 540-11000 Kc
6.3 Volt Heater. Specify MO3AB (Variable Airgap with Base Connections) FCC Appr. for Broadcast.

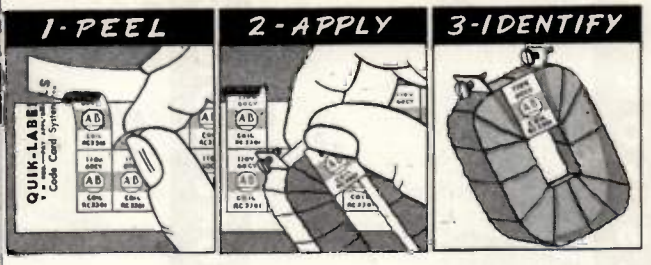
ART 800-12000 Kc
6.3 Volt Heater. Special Units Available with Heaters up to 26.5 Volts.

Temperature stability of these units is ±1°C for types TC92 and MO3. Type ART stabilizes within ±2°C over a wide ambient range. When supplied with high stability Bliley crystals these units represent the ultimate in precision frequency control.

BLILEY ELECTRIC COMPANY · UNION STATION BUILDING · ERIE, PENNSYLVANIA



Self-Sticking LABELS in colors, sizes, shapes and quantities *YOU* need!



Whatever your labeling problems, QUIK-LABELS provide the solutions. Your choice of cloth, paper or cellophane labels printed in any color to your specifications. They come mounted on handy cards . . . pre-cut to your exact size . . . ready to use. Self-adhesive QUIK-LABELS are instantly released from the cards by Brady's exclusive Starter-Strip. No other equipment necessary. Recognized everywhere as the perfect wire-marker . . . readily adapted for any application requiring permanent and reliable identification. Cost less to BUY-AND-APPLY than any other pressure sensitive label. Write today for free samples and useful literature

FREE SAMPLES

W. H. BRADY CO. Est. 1914

Identification Specialists

260 West Wells St., Milwaukee 3, Wisconsin

Alphabetical Directory of Firms

(Continued from page 14A)

The William H. Block Co., Indianapolis 9, Ind.—92

Bludworth Marine Div. Natl. Simplex, 92 Gold St., New York 7, N.Y.—54

Bluff City Distributing Co., 905 Union Ave., Memphis 3, Tenn.—94

Bodine Electric Co., 2254 Ohio St., Chicago 12, Ill.—42

Charles J. Bodnar Co., 58 Marbledale Rd., Tuckahoe 7, N.Y.—55, 67

H. O. Boehme, Inc., 915 Broadway, New York 10, N.Y.—96, 26, 32, 57

David Bogen Co., 663 Broadway, New York 12, N.Y.—96, 2, 52, 55, 66

Bogue Electric Mfg. Co., 52 Iowa Ave., Paterson 3, N.J.—41, 42

Boland & Boyce, Inc., 460 Bloomfield Ave., Montclair 6, N.J.—91

Bond Electric Corp., 275 Winchester Ave., New Haven 4, Conn.—6

Bone Engineering Corp., 701 W. Broadway, Glendale 4, Calif.—93, 1, 11, 54, 68

Lew Bonn Co., 1211 LaSalle Ave., Minneapolis 4, Minn.—94

Boom Electric & Amplifier Co., Inc., 1227 W. Washington Blvd., Chicago 7, Ill.—2, 34

Boonton Radio Corp., Fanny Rd., Boonton, N.J.—24, 45, 65, 68

See advertisement on page 111A

Bowser Inc., Refrigeration Div., Terryville, Conn.—65

L. S. Brach Mfg. Corp., 200 Central Ave., Newark 4, N.J.—2, 3, 4, 63, 73

Bradley Laboratories, Inc., 82 Meadow St., New Haven, Conn.—58, 69

W. H. Brady Co., 262 W. Wells St., Milwaukee 3, Wis.—35

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C. S. Brainin Co., 233 Spring St., New York 13, N.Y.—37

William Brand & Co., 268 4th Ave., New York 10, N.Y.—30, 73

Branson Instruments, Inc., Joes Hill Rd., Danbury, Conn.—65

Brelco Electronics Corp., 55 Van Dam St., New York 13, N.Y.—2, 20, 40, 55, 60, 67

Breon Laboratories, 1520 Evergreen Rd., Williamsport 29, Pa.—18

Jules J. Bressler, 341 Madison Ave., New York 17, N.Y.—94

R. E. Breuer Co., 250 W. 57th St., New York 19, N.Y.—94

Bright Star Battery Co., 200 Crooks Ave., Clifton, N.J.—6

British Industries Corp., 315 Broadway, New York 7, N.Y.—94

Broadcasting Program Service, 425 5th Ave., New York 16, N.Y.—99

Brociner Electronics Laboratory, 1546 2nd Ave., New York 28, N.Y.—2, 34

Brooks Electronics, Inc., 34 De Hart Pl., Elizabeth 2, N.J.—2, 66

Brooklyn Varnish Mfg. Co., 50 Jay St., Brooklyn 1, N.Y.—33

The Brown Brockmeyer Co., P.O. Box 976, Dayton 1, Ohio—41, 42

Brown Electric Co., 96-08 72nd Ave., Forest Hills, N.Y.—16, 41, 42

Brown Electrical Instrument Co., 4635 S.E. Hawthorne Blvd., Portland 15, Ore.—10, 24, 27, 45, 61, 64, 65

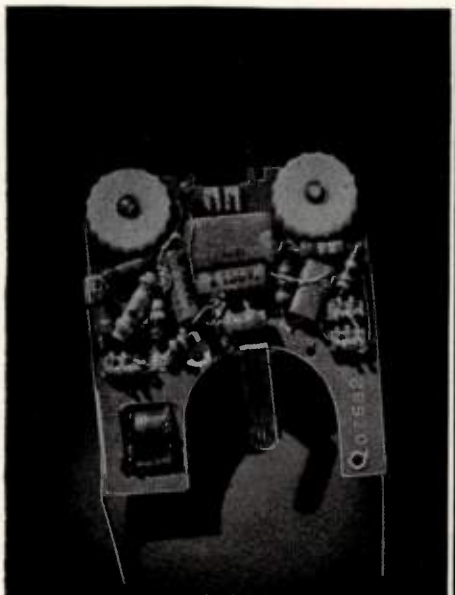
(Continued on page 18A)

SEE PRODUCT INDEX PAGE IA

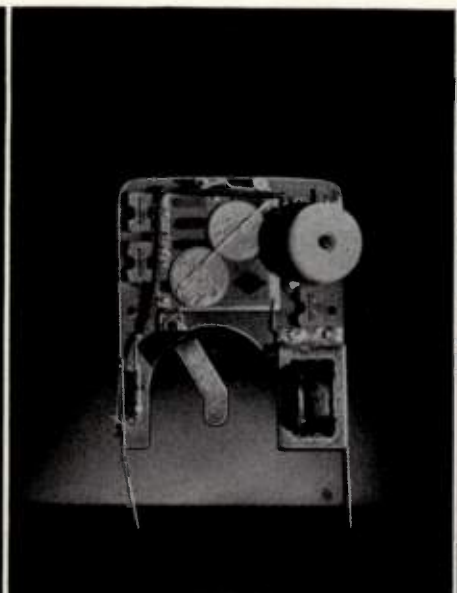
Look to **Centralab**

Division of Globe-Union Inc., Milwaukee, Wis.

Save space, simplify manufacture, step-up production with Centralab's "Printed Electronic Circuits"!

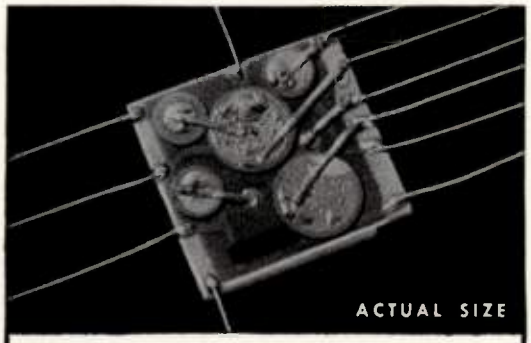


PROBLEM:
How to overcome size and weight limitations of ordinary electronic components and design a smaller, lighter Beltone hearing aid.

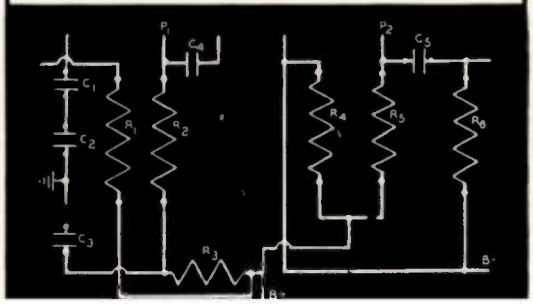


SOLUTION:
Using Centralab's "Printed Electronic Circuit", 45 parts, including capacitors and resistors, have been combined into one compact chassis.

RESULT:
The new, vastly improved 1948 Beltone Hearing Aid—smaller and lighter with improved performance and important production savings.



REAR VIEW of Beltone PEC unit is shown above. Note ceramic disc capacitors, "printed" silver leads and resistors (black paths). See below for schematic diagram of entire *Printed Electronic Circuit.*



For use where miniature size is of utmost importance, more and more manufacturers of electronic equipment are turning to CRL *Printed Electronic Circuit* because it combines ruggedness, dependability and resistance to humidity in one small unit package.

THE OUTSTANDING new hearing aid design, illustrated above was the product of close cooperation between Centralab and Beltone engineers. Working with your engineers, Centralab may be able to fit its *Printed Electronic Circuit* to your specific needs.

Integral Ceramic Construction: Each CRL *Printed Electronic Circuit* is an integral assembly of "Hi-Kap" capacitors and resistors, closely bonded to a steatite ceramic plate and mutually connected by means of metallic silver paths, "printed" on the base plate. All leads are always the same length, each plate is an exact duplicate of the original or "master."

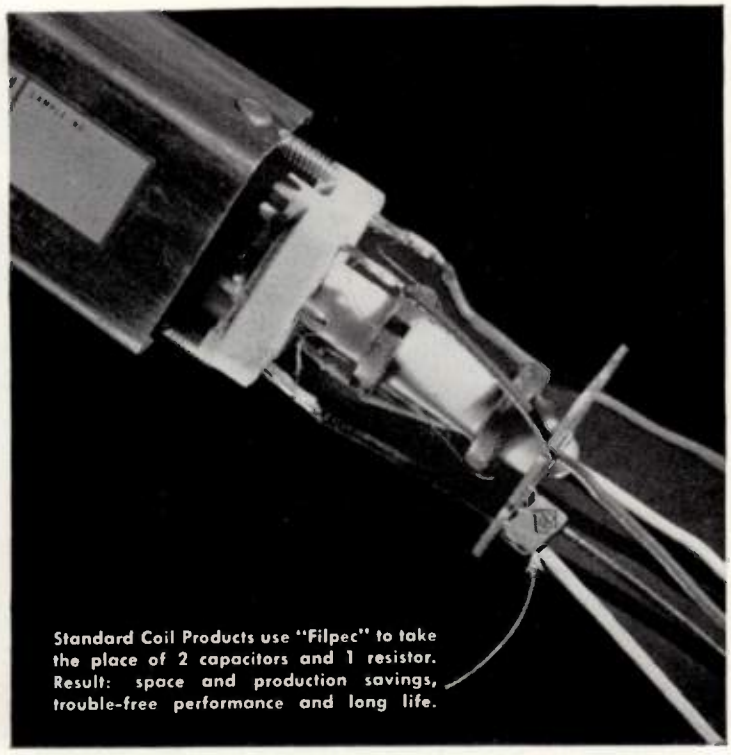
Write to Centralab for complete information on this important new electronic development, or get in touch with your nearest Centralab representative.

WRH

Look to Centralab

NEWEST APPLICATIONS OF CRL'S

"Ampec" is a typical application of Centralab's "printed electronic circuit" — a compact, highly efficient, dependable 3-stage audio amplifier.



Standard Coil Products use "Filpec" to take the place of 2 capacitors and 1 resistor. Result: space and production savings, trouble-free performance and long life.

"AMPEC" gives you compact, efficient three-stage audio amplifier for hearing aids, mike preamps, etc.

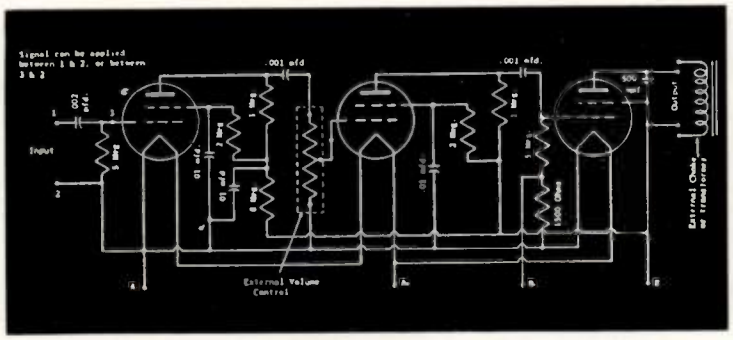
Centralab's new miniature, one-piece amplifier unit offers complete electrical circuits from input to output. Lightweight, durable, with reliability and efficiency heretofore unobtainable in small units, *"Ampec"* illustrates how you can get all components of an audio-amplifier — tube sockets, capacitors, resistors, wiring — "printed" on one, compact ceramic chassis according to your special requirements.

Since all *Ampecs* can be made from one "master plate" characteristics of all units are uniform. Thus, a complete unit can be replaced by an exact duplicate. Only 2.250" long, 1.156" wide, .187" thick over tube clips. Weight with tubes, 0.63 oz. Write for Bulletin R973.

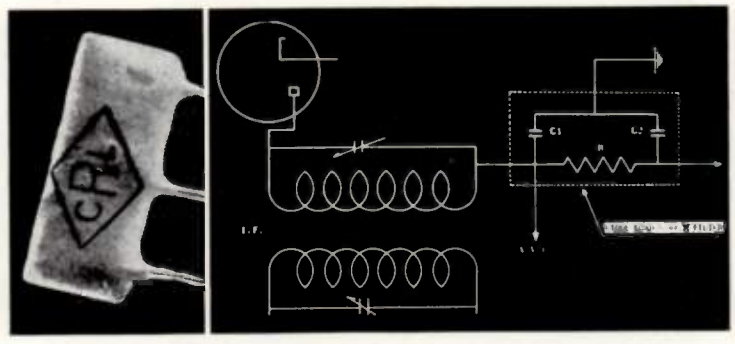
"FILPEC" combines small size, light weight, high efficiency, serves as printed electronic circuit filter.

Standard Coil Products Company is using Centralab's *Filpec* because it offers small size, light weight and long life. Added bonus feature is the fact that it provides higher circuit efficiency, dependable performance as well as a reduction of line operations in set and equipment manufacturing.

This new printed electronic circuit filter combines two capacitors and one resistor into one tiny balanced diode load filter unit, saves space, cuts inventory, is highly adaptable to a variety of circuits. Capacitor values from 50 to 200 mmf. Resistor values from 5 ohms to 5 megohms. Resistance rating: 1/5 watt. 100 WVDC. Flash test 200 VDC. For full details, write for Bulletin R976.



Schematic Diagram of typical *Ampec* illustrated above, shows what components can be used. *Ampec* can be designed by Centralab to meet a wide range of gain or frequency response requirements, depending on your design and performance needs.



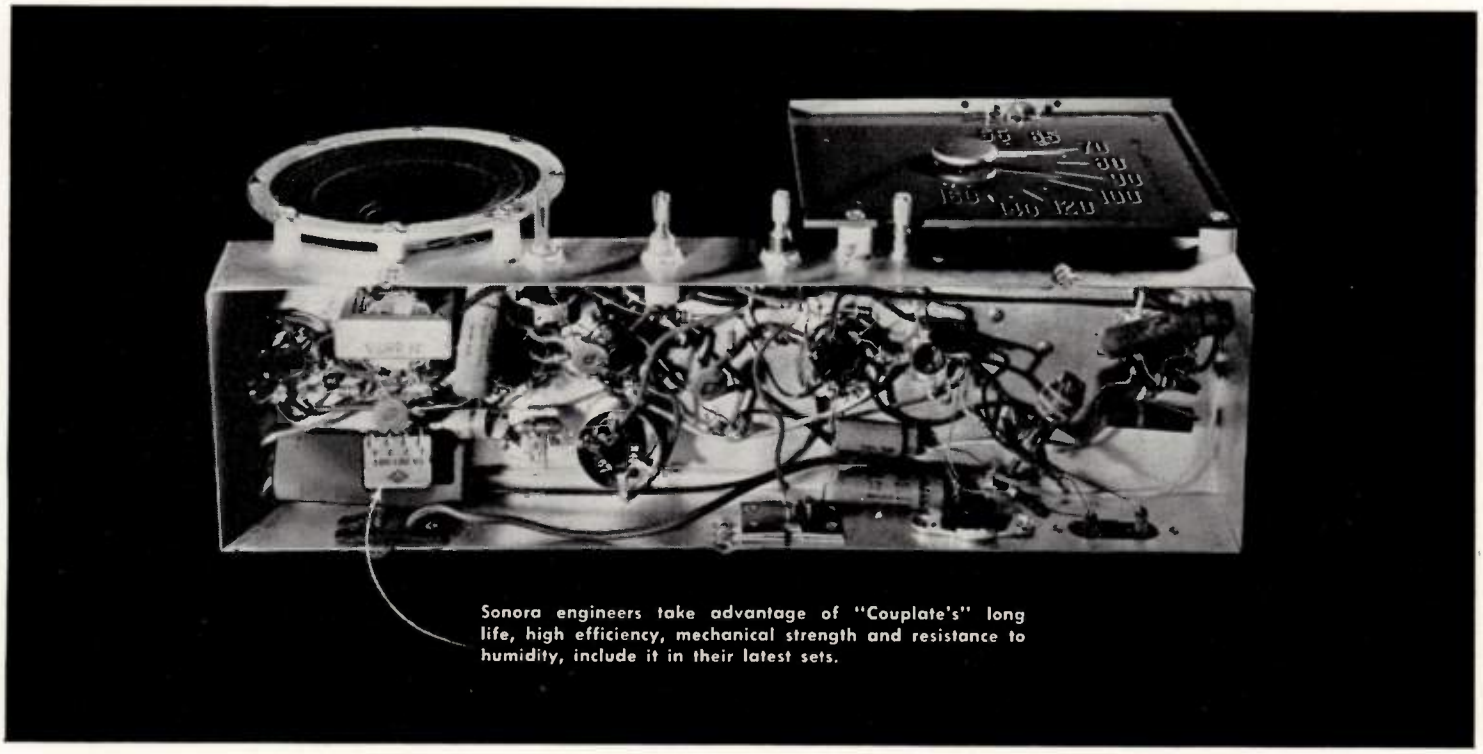
Made with high dielectric Ceramic-X, Centralab's *Filpec* assures long life, low internal inductance, positive resistance to humidity and vibration. Schematic diagram illustrates typical *Filpec* application as a balanced diode load filter.

WRH

First in component research that means lower costs for the electronic industry!

3c
2

PRINTED ELECTRONIC CIRCUIT!

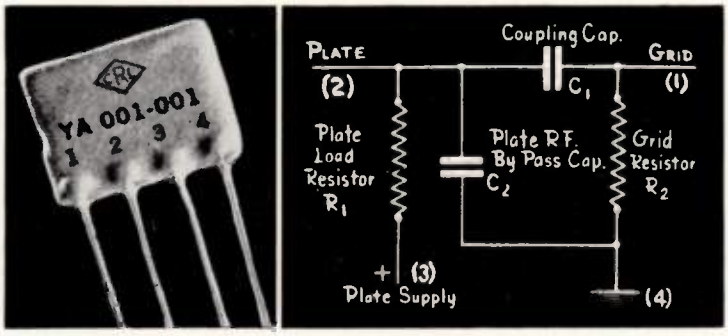


Sonora engineers take advantage of "Couplate's" long life, high efficiency, mechanical strength and resistance to humidity, include it in their latest sets.

"COUPLATE" saves space and weight, resists moisture, provides complete interstage coupling circuit.

Sonora Radio and Television Corporation is just one of the many radio manufacturers now using Centralab's *printed interstage coupling plate.*

One look at *Couplate's* design and manufacturing features shows you why: 1) *Couplate* requires only four soldered connections instead of eight, simplifies wiring and production. 2) *Couplate* saves space and mass weight, makes possible more compact and dependable finished equipment at low cost. 3) *Couplate* improves set performance by lengthening life, gives you a complete interstage coupling circuit which combines into one compact unit the plate load resistor, the grid resistor, the plate by-pass capacitor and the coupling capacitor. For complete information write for Bulletin R943.



Integral Ceramic Construction: Each *Couplate* is an integral assembly of *Hi-Kap* capacitors and resistors, closely bonded to a steatite ceramic plate and mutually connected to it by means of metallic silver paths "printed" on the base plate. Note schematic diagram.

PRESENT USERS OF CENTRALAB "PRINTED ELECTRONIC CIRCUITS"

Commercial Radio Manufacturers

Admiral Corp.
Automatic Radio Mfg. Co.
Citizens Radio Corp.
Belmont Radio Corp.
Bendix Radio Corp.
Emerson Radio & Phonograph Corp.
Hallicrafters Co.
Majestic Radio & Television Corp.
Motorola Inc.
Sentinel Radio Corp.
Sonora Radio & Television Corp.
Stewart-Warner Corp.

Hearing Aid Manufacturers

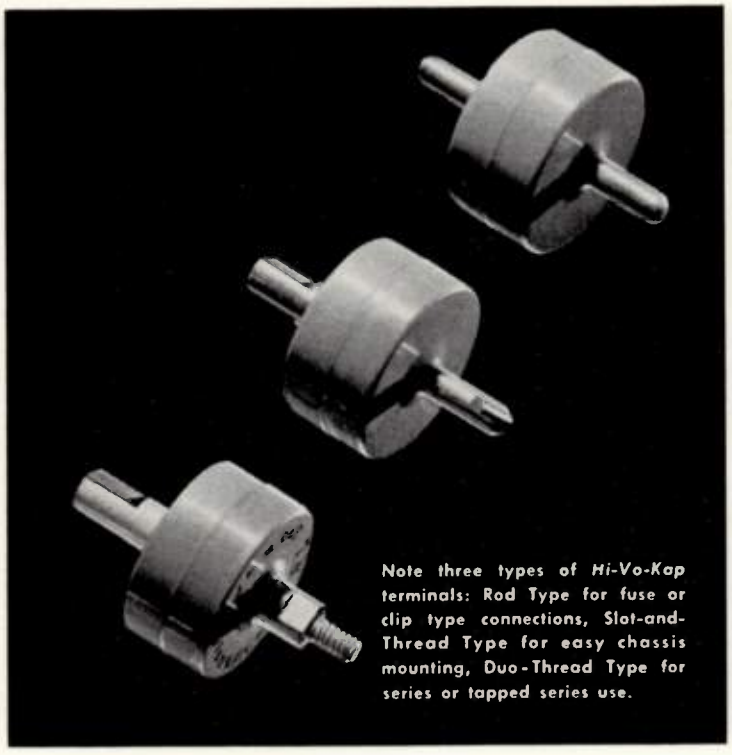
Aladdin Radio Industry Inc.
Allen-Howe Electronics Corp.
Beltone Hearing Aid Co.
The Maico Co., Inc.
Microtone Co.
Paravox, Inc.
Telex Inc.

Others

F. W. Sickles Co.
Standard Coil Products Co.

Look to **Centralab** CRL

NEW CRL PRODUCTS IMPROVE DESIGN



Note three types of *Hi-Vo-Kap* terminals: Rod Type for fuse or clip type connections, Slot-and-Thread Type for easy chassis mounting, Duo-Thread Type for series or tapped series use.

Flat, one-plane design reduces lead inductances by permitting coil-mounting directly over switch. Note positive coil spring index.

New Centralab "HI-VO-KAPS" offer you high voltage ceramic capacitors for television circuits.

Designed and developed by Centralab, *Hi-Vo-Kaps* combine high voltage, small size and a variety of terminal connections to fit virtually any television application. These new additions to CRL's line are for use as filter and by-pass capacitors in video amplifiers—for high DC voltages with small component AC voltages (not for use in temperature compensation or resonant circuits).

Integral Ceramic-X construction features positive resistance to moisture, solid brass terminals, soldered directly to electrodes . . . metallic silver electrodes fired directly to high dielectric constant Ceramic-X . . . low loss, mineral phenolic resin coating. For complete information write for Bulletin R946.

New Centralab SLIDE SWITCH provides new design for wide range of high frequency operations.

To meet the ever-growing demand, Centralab developed this new slide switch which is designed to give you improved AM and FM performance plus maximum reliability and long service life.

Flat, horizontal design saves valuable space, allows short leads, convenient location to coils, reduced lead inductances for improved low and high frequency performance. Note these fine points of construction and design: 4-point suspensions with "twisted ear" mounting on base or panel from .038" to .052" max. Optional size or length of unit—min. 5 clips per side, max. 20 clips per side. Standard brass silver-plated clips and contacts with original CRL double-wiping clip design. Get complete details in Bulletin R953.

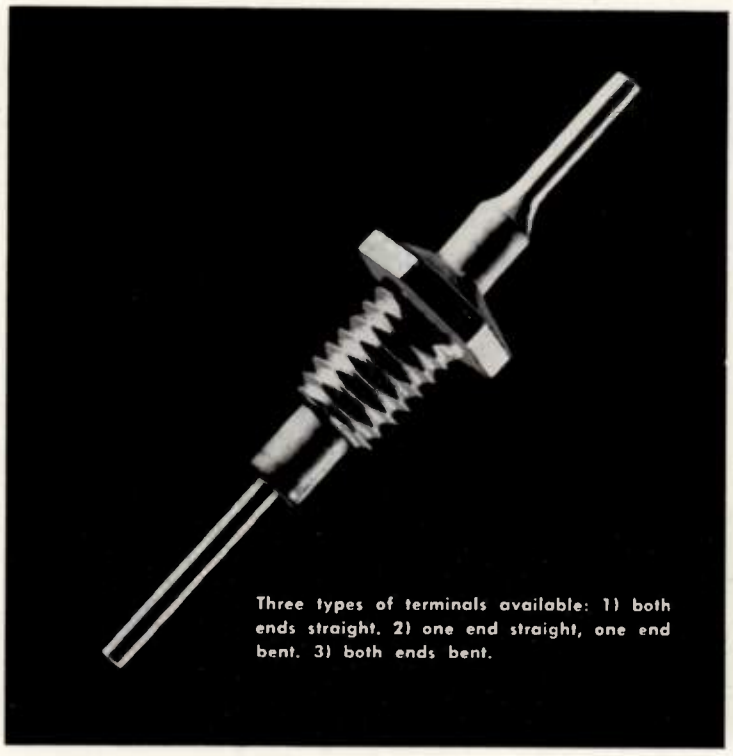
Ratings: Type A—10,000 WVDC, 15,000 VDC flash test. Capacity 500 mmf. Dimensions: diameter .990", length .510". Overall length varies with terminal types, maximum 1.597".

Type B—20,000 WVDC, 30,000 VDC Flash test, Capacity 500 mmf. Dimensions:

Specifications: Index life over 10,000 cycle minimum RMA standard life test. 2 or 3 position, shorting type contacts. Movement of slide per position—1/4 inch.

First in component research that means lower costs for the electronic industry!

AND MANUFACTURING EFFICIENCY!



Three types of terminals available: 1) both ends straight. 2) one end straight, one end bent. 3) both ends bent.

Note exclusive coil spring design, simplicity of engineering, rugged construction. Spring can be replaced without removing switch from chassis.

Centralab's new FT HI-KAPS eliminate structural and electrical damage during installation.

Made with high dielectric Ceramic-X, Centralab's new Feed-Thru or Bushing Mounted Capacitors now eliminate structural and electrical damage during installation. Secret of this CRL development is two tough, mechanical bonds — 1) between inner feed-thru terminal and inside diameter of tube, and 2) between mounting bushing and outside diameter of tube. Special high temperature solder assures a positive electrical connection for improved efficiency and long life.

FT Hi-Kaps are for use in high frequency circuits where, in addition to feed-thru, a capacity ground to either the chassis or shield is desired. For all the details about these important new components, write for Bulletin R975.

Centralab's new LEVER SWITCH has guaranteed minimum life of twenty-five thousand cycles.

The new, exclusive coil spring design which Centralab offers in its improved *Lever Switch* uses a cam and roller to assure smoother action, more positive indexing. Result: extra dependability, long life and resistance to hard service for inter-com and test equipment.

In addition, coil spring is conveniently located so that it may be replaced without removing switch from chassis.

Eight basic combinations of spring return and positive indexing provide a flexibility which makes this *Lever Switch* adaptable to almost any circuit requirements. Write for Bulletin R970, containing more detailed information.

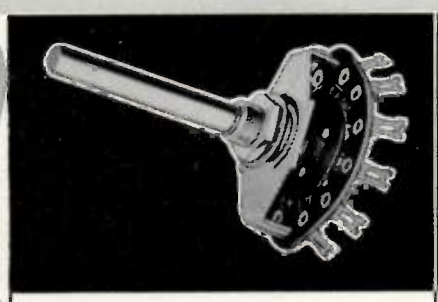
Ratings: Capacity from 55 to 2300 mmf. 500 WVDC. Flash test, 1000 VDC.

Specifications: Available with shorting on non-shorting contacts, or combination of both. Low capacity. 30 degree indexing. Rated at 6 watts. Brass silver-plated clips and contacts. All other parts cadmium-plated steel.

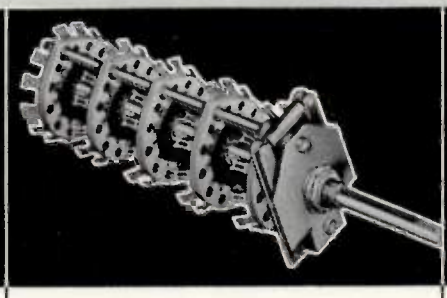
Look to Centralab

CRL

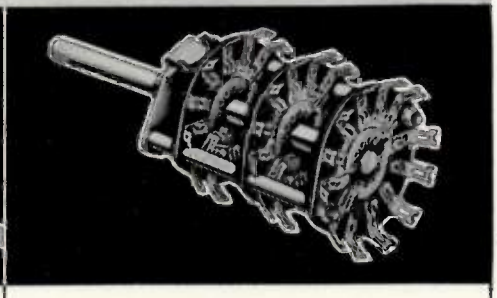
SWITCHES



"F" INDEX: an inexpensive, single or two-section type switch for radio-phono operations, simple band change or general switching applications. 30° indexing. 2-12 position fixed stops. Life test through five positions, 10,000 cycles. "V" spring, steel or beryllium copper used with steel or beryllium copper serrated plate.

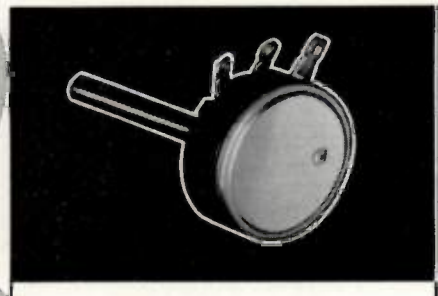


"G" INDEX: ideal for industrial applications. Provides positive, stall-proof indexing in 30° and 60° positioning. 2-12 positions, 30° index. 1 to 6 positions, 60° index. Life test through 5 positions, 250,000 cycles. Coil spring replaceable without removing switch. Consists of dual arms tensioned by coil spring.

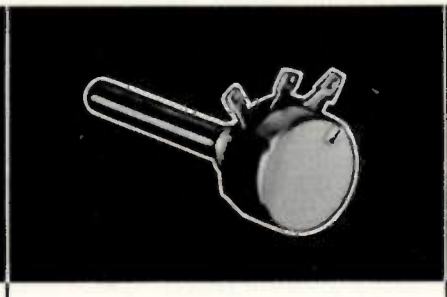


"H" INDEX: primarily for band change and general tap switch applications. Positive action. Life test through 5 positions, 10,000 cycles. Spring and ball index mechanism. Index springs available in different thicknesses to produce desired turning torque. Knob-and-rotor shaft furnished standard as one-piece assembly, or in two pieces if required.

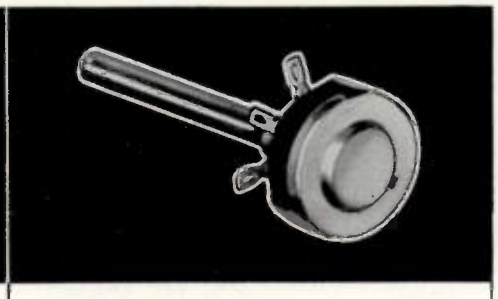
CONTROLS



"R" RADIOHMS: two types available: 1) *wire-wound,* rated at 3 watts, wound in linear taper only. 20-10,000 ohms resistance. 2) *composition,* rated at 1 watt with 7 resistance tapers. Non-rubbing contact. Low noise level. Resistance from 500 ohms to 10 megohms. Both types can be "twinned." Available with AC line switch.

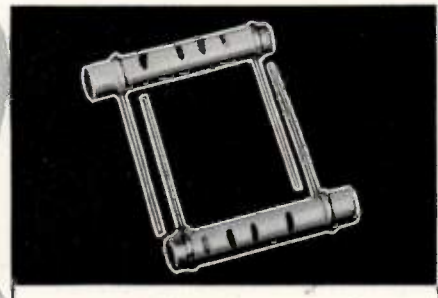


"E" RADIOHMS: composition type only. Rubbing contact. 6 different resistance tapers available. Resistance from 10,000 ohms to 3 megohms. Current rating ¼ watt. 57/64" in diameter, 17/32" deep behind panel. 25/32" deep behind panel with AC line switch. Fully shielded with long skirt metal cover and metal back plate.



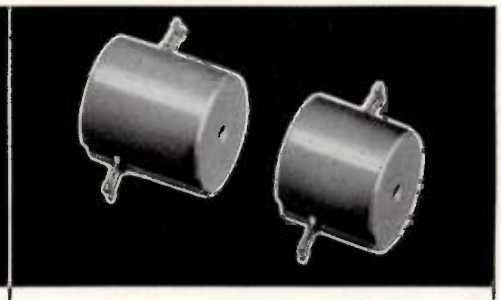
"M" RADIOHMS: the most popular and versatile of all controls. Composition type only. 7 resistance tapers. Resistance from 500 ohms to 10 megohms. Current rating ½ watt. 1 3/64" in diameter. ½" deep behind panel. 25/32" deep with AC line switch. Can be twinned, tripled, twinned with switch, or twinned with concentric shafts for independent unit operation.

CAPACITORS



TC TUBULARS: ceramic, temperature compensating—the most stable capacitors available having no appreciable change with aging, humidity or temperature. Individually color coded. Rated at 500 working volts DC. Flash-tested 60 cycles, 1400 volts peak. Four basic sizes with capacity range from 860 to 1 mmf.

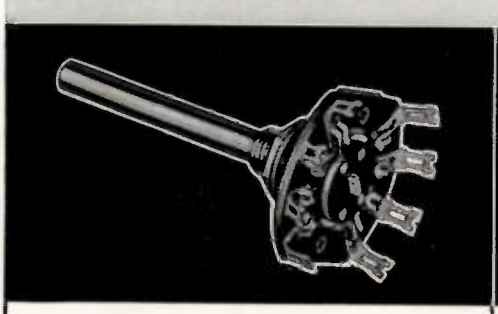
BC TUBULARS: ceramic, for use where temperature compensation is unimportant. Four basic tube sizes with basic working voltages of 500 DC. Flash tested, 1000 volts DC. Capacity range from .000010 to .01 mfd. Individually color coded. All capacitors impregnated with wax and coated with a moisture proof low power factor resin.



HIGH ACCURACY: pure silver electrodes fired on Centralab's original high dielectric constant Ceramic-X. Suitable for rigid frequency control applications. Individually tested for temperature coefficient and capacitance. Temperature coefficient is maintained with ± 10 parts per million. Standard working voltage, 500 volts DC. Capacity tolerance is ± 5%.

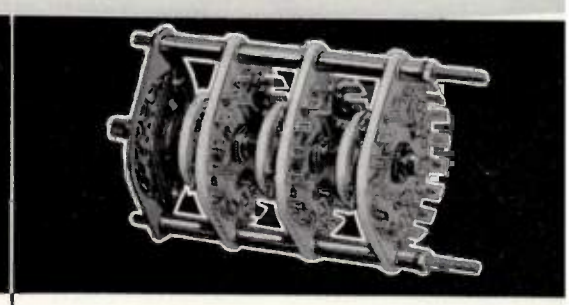
WRH

First in component research that means lower costs for the electronic industry!

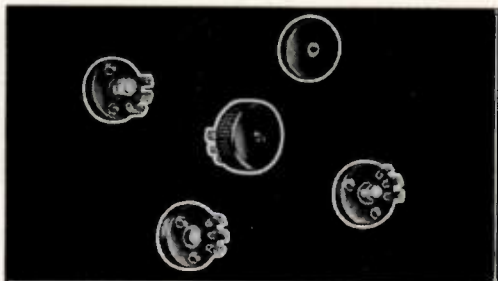


TONE SWITCHES: 3-4-6-8-9 or 10 clips available in tone switch group. 8 clip type above. All rated at 6 watts (1 amp. - 6 v.). Contact resistance less than 2¾ milliohms. Shorting or non-shorting contacts. 3-6-10 clip type can be supplied with spring return. 4-8-10 clip types can be supplied with AC line switch. Minimum life operation 10,000 cycles.

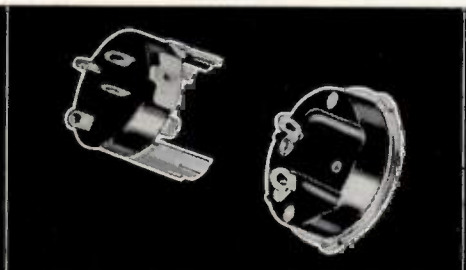
LEVER SWITCHES: features coil spring mechanism with index spring, replaceable without removal of switch from chassis. Life test — 50,000 cycles. 8 basic combinations of indexing available. Shorting or non-shorting contacts. Positive action or spring return action — or combination of both. 30° indexing. Silver-plated clips and contacts.



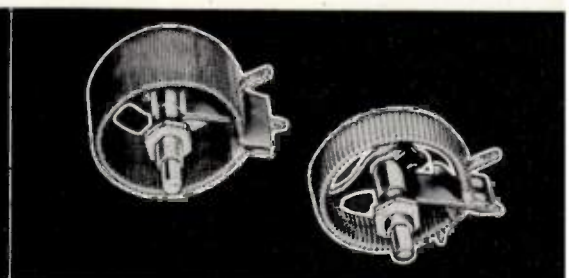
POWER SWITCH: specially designed for transmitters, power supply converters, X-ray equipment, other special industrial and electronic uses. Efficient performance up to 20 megacycles. 7½ amperes at 60 cycles, 115 volts AC. Minimum voltage breakdown between critical points — 3,000 volts RMS, 60 cycles. Life tests — 25,000 cycles. Shorting or non-shorting contacts available. 20° double roller indexing.



"I" RADIOHMS: no larger than a dime, specially designed for hearing aids, pocket radio receivers, miniature amplifiers. 6 resistance tapers. 500 ohms to 5 megohms resistance. Diameter .625", less knob. Knob diameter 23/32". Rating 1/10 watt. Exceptionally low noise level. Shield included to keep out lint, dust, etc. Tested to 25,000 reversals at rate of 20/min.

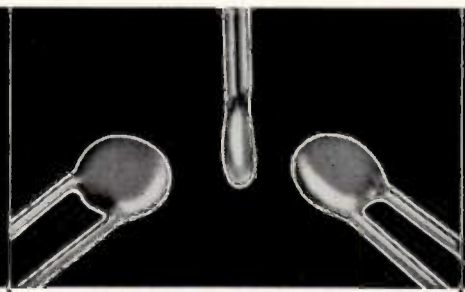


SWITCH COVERS: five types for "R" Radiohms, 4 types for "M" Radiohms, 1 type for "E" Radiohms. Minimum life of 50,000 mechanical and electrical operations, underwriters approved. Contact carrier is propelled by full-floating compression type spring, provides easy, positive action. Rated at 3 amp. 125 volts; 1 amp. 250 volts.



RHEOSTATS: for commercial applications such as small motor speed controls, charging rate adjusters, or soldering iron temperature regulators. All metal frame and core, insulated with treated asbestos. Designed for high temperature work. Two sizes: 25-watt, ¾" deep behind panel. 50 watt, 1¼" deep behind panel. Diameter of both 2 inches. Furnished with bakelite knob and panel insulating washers.

HIGH VOLTAGE: construction features extremely low power factor, stable retrace characteristics and maximum flashover commensurate with physical size. Plates are pure silver fired to ceramic surface. Capacity tolerance is ±10%. Five sizes with working voltage from 5000 to 15,000 volts DC, flashover voltage from 10,000 to 30,000 volts DC.



DISC: miniature ceramic disc capacitor combining utmost reliability with small physical size and low mass weight. Diameter ⅝". Thickness 5/32". Guaranteed minimum capacity, .005 mmf. Made of pure silver electrodes bonded to permanent Ceramic-X with a tensile strength of 3000 lbs. per sq. in. Low internal inductance.

TRIMMERS: ceramic. Four basic types with full capacity change within 120° rotation. Working voltages, 500 DC. Flash test, 1100 volts DC. Type 820 — 3 ranges from 2.6 to 35 mmf. Type 822 — 7 ranges from 2 to 50 mmf. Type 823 — 8 ranges from 5 to 125 mmf. Type 824 — 5 ranges from 1½ to 35 mmf. Power factor of all — less than 0.2% at 1 megacycle. Spring pressure maintains constant rotor balance.

Look to **Centralab**

Division of Globe Union, Inc.,
Milwaukee, Wisconsin

Modern Ceramics for Structural & Electrical Use

ENGINEERED CERAMICS — designed and produced for special industrial and electronic applications — are now one of the outstanding new developments which Centralab offers you. Recent advancements in engineering and precision control of ceramic production make it possible to give you the specific properties of hardness, coefficient of expansion, and porosity which you require. Because of its long experience in the ceramic field, Centralab is in a position to give you complete facts and information about specialized types of Ceramic materials. Its family of ceramics includes the three basic body types below, plus a wide range of dielectric materials.

STEATITE

Uniform white, high dielectric strength, high mechanical strength, low dielectric loss at high frequencies. Impervious to moisture and common acids, does not warp in use, will withstand high temperature, and its characteristics remain stable with age. Approved without limitations for grade L-5 material for Army and Navy use.

CENTRADITE

For use where low thermal expansion and high resistance to heat shock are desired. Composed chiefly of Cordierite, a magnesium aluminum silicate crystalline material. White in color and low in porosity. Approved grade L-3 material for Army and Navy use. Variations available to meet specific design and production requirements.

ZIRCONITE

Has low coefficient of expansion and good thermal shock properties plus high strength characteristics. Its electrical and other properties are high enough for L-4 requirements. Recommended for extruded or wet-pressed shapes. Variations of this material also available to meet specific design and production requirements.

COMMERCIAL USES FOR CENTRALAB CERAMICS: tube socket bases (less metal parts), variometer rotor and stator bars, coil forms, switch stators and rotors, standoffs, feed through insulators, end plates for condensers, trimmer capacitor stators and rotors, metallized shafts, tubes and plates of controlled porosity for filtering, crystal cases (metallized for hermetic sealing), forms for wire wound fixed resistors, heating cores, forms to hold induction heating coils, cores for metal castings, terminal blocks and strips, tube parts, grid caps, guides for textile industry.

Table of Average Characteristics

	Steatite	*Centradite*	*Zirconite*
Dielectric Constant	5.82	5.4	8.65
Power Factor (1 megacycle)	.0011	.0054	.00165
Dielectric Loss Factor	.0064	.0292	.0147
Modulus of Rupture (lbs. per sq. in.)	20,500	11,600	17,300
Dielectric Strength (volts per mil, 1/8" thickness)	260	250	215
Coefficient of Expansion	6.9×10^{-6}	1.9×10^{-6}	3.3×10^{-6}
Porosity or Moisture absorption, %	0-.005%	0-.007%	0-.005%
Color	White	White	White
Moh scale hardness	7-7.5	7-7.5	7.5

Specify HI-Q COMPONENTS for UNIFORMITY . . .

HI-Q DISK CAPACITORS

BPD Where space is a factor and the physical shape is more adaptable than tubular unit try these HI-Q Disk Capacitors. Another example of accurate dependable miniaturization, this high dielectric by-pass, blocking or coupling HI-Q Disk Capacitor has many applications. Available in three standard capacities. Type BPD-5: .005 mfd. guar. min. Type BPD-10: .01 mfd. guar. min. Type BPD-1.5: .0015 mfd. guar. min.

Illustration at right is actual size.

HI-Q MINIATURE G. P. TUBULARS

G.P. By the use of our new Body 41, 5 mmf to 33,000 mmf capacity ranges are now available which will cover the majority of your by-passing problems. These HI-Q Miniature G. P. Tubulars also provide closer coupling of leads thus insuring minimum inductance and highest self resonant frequencies.

Illustration at left is actual size.

HI-Q components are uniformly superior because of rigid quality control throughout all stages of manufacture. Final individual inspection insures their conformance to electrical and physical specifications. When you specify **HI-Q** components, you can be sure they meet your most stringent requirements for precision, dependability, compactness and uniformity. Write for complete information and engineering data.

HI-Q COMPONENTS BETTER 4 WAYS

PRECISION Tested step by step from raw material to finished product. Accuracy guaranteed to your specified tolerance.

UNIFORMITY Constancy of quality is maintained over entire production through continuous manufacturing controls.

DEPENDABILITY Interpret this factor in terms of your customers' satisfaction . . . Year after year of trouble-free performance. Our Hi-Q makes your product better.

MINIATURIZATION The smallest BIG VALUE components in the business make possible space saving factors which reduce your production costs . . . increase your profits.

HI-Q *Electrical Reactance Corp.*

FRANKLINVILLE, N. Y.

Plants: FRANKLINVILLE, N. Y. — JESSUP, PA.
Sales Offices: NEW YORK, PHILADELPHIA, DETROIT, CHICAGO, LOS ANGELES

Alphabetical Directory of Firms

(Continued from page 16A)

Brown Engineering Co., 4635 S.E. Hawthorne Blvd., Portland 15, Ore.—10, 27, 45, 61, 64, 65

W. J. Brown, 501 Marshall Bldg., Public Sq., Cleveland, Ohio—93

Browning Laboratories, 750 Main St., Winchester, Mass.—95, 96, 20, 24, 38, 40, 45, 46, 55, 65

Brujac Electronic Corp., 11 Park Pl., New York 7, N.Y.—94

Charles Bruning Co., Inc., 4754 Montrose Ave., Chicago 41, Ill.—19

The Brush Development Co., 3405 Perkins Ave., Cleveland 14, Ohio—18, 26, 34, 39, 46, 48, 57, 65

Buck Engineering Co., Inc., 37-41 Marcy St., Freehold, N.J.—96, 8, 13, 35, 47

Bud Radio, Inc., 2118 E. 55th St., Cleveland 3, Ohio—8, 11, 13, 14, 15, 27, 30, 31, 45, 47, 49, 50, 64

H. H. Buggie & Co., 2141 Madison Ave., Toledo Ohio—3, 9, 12, 15, 27, 43, 51, 68

J. H. Bunnell Co., 81 Prospect St., Brooklyn 1, N.Y.—1, 22, 32, 59, 64, 67

Burgess Battery Co., Battery Div., Freeport, Ill.—6

Burke Electric Co., 12th & Cranberry St., Erie, Pa.—27, 41, 42

Burling Instrument Co., 253 Springfield Ave., Newark 3, N.J.—96, 20, 64

Burlingame Associates, Ltd., 11 Park Pl., New York 7, N.Y.—94

Burlington Instrument Co., 1800 4th St., Burlington, Iowa—38, 71

Burndy Engineering Co., Inc., 107 Bruckner Blvd., New York 54, N.Y.—27

Burnell & Co., 45 Warburton Ave., Yonkers 2, N.Y.—14, 21, 23, 29, 66
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Wm. W. L. Burnett Radio Lab., 4814 Idaho St., San Diego 4, Calif.—93, 95, 96, 14, 18, 23, 24, 45, 55, 66, 67, 68

Burstein Applebee Co., 1012 14 McGee St., Kansas City 6, Mo.—94

Burton Rogers Co., 292 Main St., Cambridge 42, Mass.—3, 38

Bussmann Mfg. Co., University at Jefferson Sts., St. Louis 7, Mo.—25
See advertisement on page 79A

C. B. Manufacturing Co., 412 W. 37th St., New York 18, N.Y.—14, 52, 66

C. G. S. Laboratories, Inc., 36 Ludlow St., Stamford, Conn.—96

C. H. Engineering Co., 132 St. James St., W. Montreal, Que., Can.—50, 64

C-Thru Ruler Co., 385 Capitol Ave., Hartford, Conn.—19

Cambridge Instrument Co., 70 E. 45th St., New York 17, N.Y.—96, 65

Cambridge Thermionic Corp., 440 Concord Ave., Cambridge 38, Mass.—14, 18, 27, 35
See advertisement on page 105A

Camburn, Inc., 3240 57th St., Woodside, L.I., N.Y.—3

Camloc Fastener Corp., 420 Lexington Ave., New York 17, N.Y.—27

Canadian Marconi Co., 211 St. Sacrament St., Montreal, Que., Can.—92, 93, 94, 95, 96, 97, 1, 2, 3, 4, 9, 10, 11, 13, 14, 16, 18, 23, 24, 27, 28, 29, 32, 35, 38, 39, 45, 46, 47, 52, 54, 55, 57, 61, 62, 65, 66, 67, 68, 69

Canadian Research Institute, 46 St. George St., Toronto 5, Ont., Can.—93, 94, 96

Canadian Westinghouse Co., Ltd., Hamilton, Ont., Can.—92, 13, 16, 20, 28, 30, 35, 36, 38, 41, 42, 43, 49, 50, 52, 53, 55, 58, 59, 66, 69, 71, 72

C. F. Cannon Co., Main St., Springwater, N.Y.—34

Cannon Electric Development Co., 3209 Humboldt St., Los Angeles 31, Calif.—14, 15, 51
See advertisement on page 116A

The Capacitron Co., 849 N. Kedzie Ave., Chicago 51, Ill.—10

Capitol Radio Engineering Inst., 3224 16th St. N.W., Washington 10, D.C.—98

Frank L. Capps & Co., Inc., 244 W. 49th St., New York 19, N.Y.—57

The Carborundum Co., Globar Div., Niagara Falls, N.Y.—61

Cardinell Products, 15 Label St., Montclair, N.J.—19

Allen D. Cardwell Mfg. Corp., 97 Whiting St., Plainville, Conn.—11

Carolina Sound Equipment Service, 614 Clement Ave., Charlotte 4, N.C.—94, 96

The Carpenter Steel Co., Reading, Pa.—37

Carson Machine & Supply Co., 200 S.E. 29th St., Oklahoma City 9, Okla.—41

Carson Micrometer Corp., 2 E. Main St., Little Falls, N.J.—35

Carter Motor Co., 2645 N. Maplewood Ave., Chicago 47, Ill.—16, 41, 42
See advertisement on page 18A

Carter Products Corp., 6924 Carnegie Ave., Cleveland 3, Ohio—43, 50

Carter Radio Div. Precision Parts Co., 213 Institute Pl., Chicago 10, Ill.—5, 11, 14, 15, 31, 32, 51, 59, 61, 64

Catalin Corp. of Amer., 1 Park Ave., New York 16, N.Y.—43, 50

Cathodeon Ltd., Meadowcraft Labs., Church St., Cambridge, Cambridgeshire, Eng.—96, 30, 69

Celanese Corp. of America, 180 Madison Ave., New York 16, N.Y.—43, 50

Celluplastic Corp., 50 Avenue L, Newark 5, N.J.—43, 50

Cellusuede Products Inc., 500 N. Madison St., Rockford, Ill.—27

Central Paper Co., Inc., 2442 Lakeshore Dr., Muskegon, Mich.—30

Central Research Laboratories, Inc., Red Wing, Minn.—93, 96, 46, 68

Centralab Div. of Globe Union, Inc., 900 E. Keefe Ave., Milwaukee, Wis.—10, 11, 12, 13, 61, 64
See advertisement facing pages 16 and 17

Art Cerf & Co., 744 Broad St., Newark 2, N.J.—94

Chambers & Garrison, 1519 Connecticut Ave., Washington 6, D.C.—93

Chase Brass & Copper Co., 236 Grand St., Waterbury 91, Conn.—27, 37, 73

Chatham Electronics Corp., Washington St., Newark 2, N.J.—1, 2, 20, 28, 35, 45, 46, 52, 54, 55, 58, 60, 65, 69
See advertisement on page 115A

(Continued on page 20A)
SEE PRODUCT INDEX PAGE IA

A WELL KNOWN NAME IN RADIO FOR OVER A QUARTER OF A CENTURY

For Quality and Performance

BURNELL offers

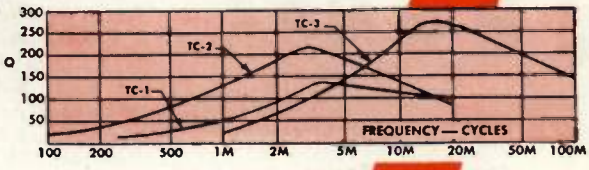
High Q TOROIDAL COILS

The solution of filter network problems, has been greatly simplified through the use of toroidal coils wound on molybdenum permalloy cores. Design engineers have learned to depend upon them since discovering that only these toroids possess all the necessary qualities of a good high "Q" coil.

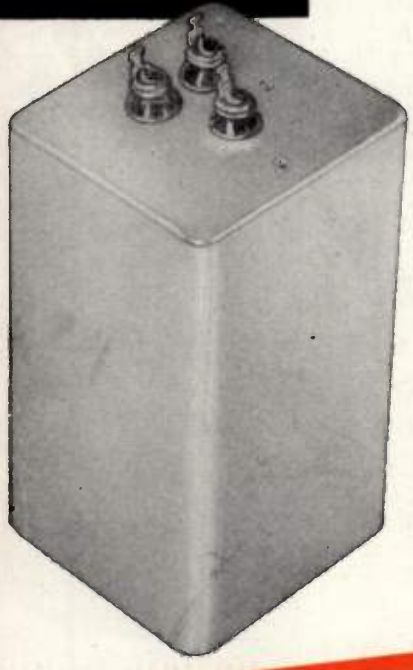
The most available types now being supplied are

TYPE	IND. RANGE
TC-1 Any Ind. up to	7 HYS
TC-2 Any Ind. up to	30 HYS
TC-3 Any Ind. up to	500 MHYS

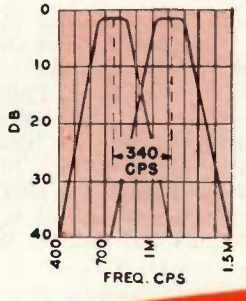
Be sure to state desired inductance.

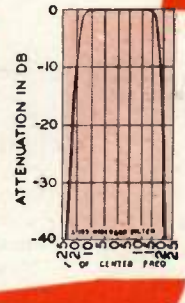


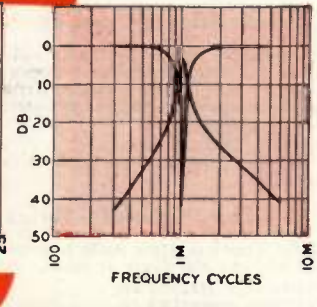
TOROIDAL COIL FILTERS



Our toroid filters have become a by-word in every phase of electronics where only the best results are acceptable. Toroidal coils wound on MOLYBDENUM PERMALLOY DUST CORES are the primary basis for our success in producing filters unexcelled in performance. We are producing toroidal coil filters which consistently demonstrate the value of toroidal coils. These filters cannot be matched in stability, accuracy and sharpness by filters made with the usual laminated type of coil.







Burnell & Company

DESIGNERS AND MANUFACTURERS OF ELECTRONIC PRODUCTS

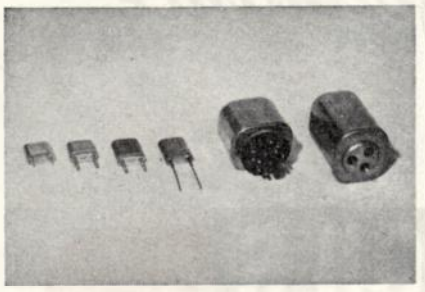
45 WARBURTON AVE., YONKERS 2, N. Y.

CABLE ADDRESS "BURNELL"

ALL INQUIRIES WILL BE PROMPTLY HANDLED
WRITE FOR OUR CATALOGUE

CLARK CRYSTALS

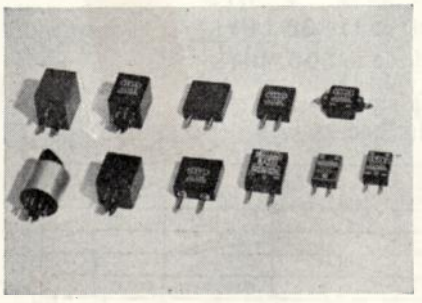
The New Complete Line



The "HSM" Series

Plated quartz crystals hermetically sealed in metal holders.

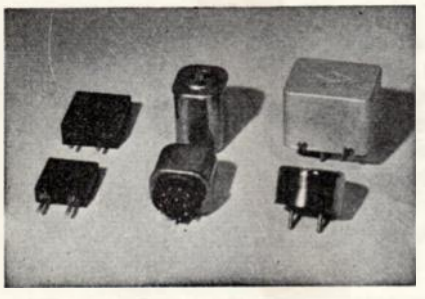
- ***90 kc to 50 mc**
- ***.02% to .002% tolerance**
- ***standard ½", octal, loctal, wire leads or lug contacts**



The "PM" Series

Acid etched quartz crystals pressure mounted between stainles steel electrodes and sealed in low loss phenolic holders.

- ***500 kc to 25 mc**
- ***.02% to .002% tolerance**
- ***standard ½", ¾", octal, wire leads or lug contacts**



The "LF" Series

Plated quartz crystal oscillator and resonator plates and bars, mounted between resonant frequency pins or ball contacts. Hermetic sealing and temperature control optional.

- ***50 kc to 500 kc**
- ***.02% to .002% tolerance**
- ***standard 2 prong, 5 prong, octal or lug contacts**

The "Special" Series

Special quartz crystals made to your specifications for any electronic or optical application.

- ***ultrasonic transducers**
- ***circular resonators**
- ***square resonators**
- ***concave resonators**
- ***torsional rods**
- ***lattice network filters**
- ***variable frequency crystals**

Designed for Stability, Dependability and Economy

CLARK CRYSTAL COMPANY

Marlboro, Massachusetts, U.S.A.

Alphabetical Directory of Firms

(Continued from page 18A)

Chemaco Corp., Berkeley Heights, N.J.—50

Chemical Publishing Co., Inc., 26 Court St., Brooklyn 2, N.Y.—91

Chicago Condenser Corp., 3255 W. Armitage Ave., Chicago 47, Ill.—10

Chicago Molded Prods. Corp., 1020 N. Kolmar Ave., Chicago 51, Ill.—43

Chicago Rivet Machine Co., 9600 W. Jackson Blvd., Belwood, Ill.—35

Chicago Telephone Supply Co., 1142 W. Beardsley Ave., Elkhart, Ill.—51, 59, 61

Chicago Transformer Div., Essex Wire, 3501 W. Addison St., Chicago 18, Ill.—14, 23, 66

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George H. Church Co., 5109 Halifax Ave., Minneapolis 10, Minn.—10, 23

Churchill Cabinet Co., 2119 W. Churchill St., Chicago 47, Ill.—8

Cinaudagraph Corp., 2 Selleck St., Stamford, Conn.—36

Cinch Mfg. Corp., 2335 W. Van Buren St., Chicago 12, Ill.—62

Cinema Engineering Co., 1508 W. Verdugo Ave., Burbank, Calif.—93, 94, 96, 2, 5, 9, 13, 14, 21, 23, 31, 32, 38, 40, 47, 52, 57, 59, 61, 64, 65, 66, 72

C. P. Clare & Co., 4719 W. Sunnyside Ave., Chicago 30, Ill.—32, 59, 64

Wallace Clark & Co., 521 5th Ave., New York 17, N.Y.—93

Clark Crystal Co., Marlboro, Mass.—18

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Clark Radio Equipment Corp., 176 W. Adams, Chicago 3, Ill.—2

Clark-Reiss Distributors Inc., 55 Walker St., New York 13, N.Y.—94

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Clarke Instrument Corp., 910 King St., Silver Spring, Md.—96, 5, 65, 68

Clarkstan Corp., 11927 W. Pico, Los Angeles 34, Calif.—93, 11, 24, 48, 57, 65, 68

Clarostat Mfg. Co., Inc., 285-7 N. 6th St., Brooklyn 11, N.Y.—5, 14, 61, 64, 65

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The Cleveland Container Co., 6201 Barberton Ave., Cleveland 2, Ohio—11, 12

Cleveland Inst. of Radio Electronic, 521 Terminal Tower, Cleveland 13, Ohio—91, 93, 98

Cleveland Tungsten, Inc., 10200 Meech Ave., Cleveland 5, Ohio—37

Clinton Shaw & Co., Rm. 1412 Market St., Nat. Bank Bldg., Philadelphia 7, Pa.—93

Clippard Instrument Lab. Inc., 1125 Bank St., Cincinnati 14, Ohio—14, 38, 65, 66

The Clough-Brengle Co., 6014 N. Broadway, Chicago 40, Ill.—45, 46, 65

Cohan-Epner Co., Inc., 142 W. 14th St., New York 11, N.Y.—37

See advertisement on page 122A

Sigmund Cohn Corp., 44 Gold St., New York 7, N.Y.—73

See advertisement on page 20A

Coil Winders, Inc., 81 Willoughby St., Brooklyn 1, N.Y.—12, 14, 23, 65, 66

Cole Elec. Products Co., 4306 Crescent St., Long Island City 1, N.Y.—8, 13, 47, 64

(Continued on page 24A)

SEE PRODUCT INDEX PAGE 1A

RIGHT... FOR YOUR NEW ELECTRONIC CIRCUITS

CHICAGO TRANSFORMERS AND REACTORS

POWER

PLATE AND FILAMENT SUPPLY TRANSFORMERS

For both capacitor and reactor input filter systems. High voltage secondaries provide a range of rectified d-c outputs from 260 to 425 volts, 55 to 300 ma. Standard 5-volt, 2, 3, or 6-ampere rectifier filament windings and 6.3-volt amplifier filament windings, center-tapped, in a convenient range of current ratings.

Mounting Type B or C.

FILTER REACTORS

A range of d-c ratings from 55 to 300 ma. for use with the power transformers above. Inductance values of 15, 12, 10, and 8 henries, d-c resistances of from 385 to 70 ohms. Insulated for 2,500 test volts.

Mounting Type B or C.

FILAMENT TRANSFORMERS

A useful series with secondaries supplying from 2.5 volts, 5.25 amps. to 11 volts, 10 amps. Insulated for 2,500 test volts, except for units designed for high voltage, rectifier filament supplies, which test at either 5,000 or 9,000 volts. Latter have bushing-insulated terminals.

Mounting Type B.

PLATE TRANSFORMERS AND REACTORS

Plate transformers with 115/230-volt primaries, in a range of capacities — secondaries for supplying from 750 to 3,000 volts (d-c after filter), 250 to 500 ma. Filter chokes with d-c ratings to match. Inductance values of 10 or 6 henries. Insulated for either 7,500 or 9,000 volts.

Transformers of SPECIAL DESIGN

. . . form the major part of Chicago Transformer's business. To fill your special requirements, CT offers the most complete engineering and manufacturing facilities in the transformer field.

A complete range of basic mounting parts — drawn steel cases, vertical and horizontal shields, frames, brackets, etc. — is available to your specification.

Besides the types of transformers listed elsewhere on this page, CT also makes

- Wave Filters
- Oscillator Transformers
- Vibrator Transformers
- Television and Other Special-Purpose Transformers
- Instrument Transformers

AUDIO

FULL FREQUENCY RANGE

30 to 15,000 CYCLES — Uniform response within ±½ db over this entire range. Response within very close limits up to 20,000 cycles. Exceptionally low percentage of distortion at all frequencies.

INPUT TRANSFORMERS

Applications: Line to single or push-pull grids, line bridging to p-p grids, line to line, or interstage. Split and balanced primary and secondary windings, center-tapped. Power levels up to +30 dbm. Nickel alloy hum shielding allows operation at levels as low as −70 and −90 dbm.

Mounting Type A.

OUTPUT TRANSFORMERS

Applications: Single Plate to Line (600/150 ohms) or push-pull plates to line or voice coil (16/8/4 ohms) Power levels up to +43 dbm.

Mounting Type A.

DRIVER AND MODULATION TRANSFORMERS — MODULATION REACTORS

In matched sets for 250-watt, 1-KW, and 5-KW transmitters. Response within ±1 db over the Full Frequency Range. Distortion percentage very low — well within FCC limits. Largest units are mounted in oil-filled cases, constructed of welded steel plate; others in drawn steel cases or in shield-and-frame mountings similar to Plate Transformers

PUBLIC ADDRESS RANGE

50 to 10,000 CYCLES — Uniform response within ±½ db over this range. Very low transmission losses.

DRIVER TRANSFORMERS

Application: Push-pull plates (20,000 ohms or 5,000/10,000 ohms) to push-pull grids. Primary d-c ratings of 10, 25, and 100 ma.

Mounting Type B or C.

OUTPUT TRANSFORMERS

Application: Push-pull plates (5,000, 6,000, or 10,000 ohms) to Line or voice coil Primary d-c ratings of 80, 150, and 200 ma. Have tertiary windings to provide 10% inverse feedback for improved fidelity of output.

Mounting Type B or C.

COMMUNICATIONS RANGE

200 to 3,500 CYCLES — Response variations not exceeding ±1 db over the range of voice frequencies.

INPUT TRANSFORMERS

Applications: 600/150-ohm line to single or push pull grids (100,000 ohms) and 125/50-ohm microphone to single or push-pull grids (125,000 ohms).

Mounting Type B or C.

OUTPUT TRANSFORMERS

Applications: Single plate (either 5,000 or 8,000 ohms) to line or voice coil.

Mounting Type B or C.

DRIVER AND MODULATION TRANSFORMERS

Suitable for application in 250-watt communications-type transmitters.

Mounting Type B or C.

NOTE THESE FEATURES:

- **MATCHED TO MODERN TUBES** — Ratings fill the requirements of today's most-used receiving, transmitting, and industrial tubes.
- **SEALED IN STEEL** — Drawn steel case constructions in 3 variations. (Descriptions at left keyed to illustrations A, B, and C below)
- **CHOICE OF CONNECTORS** — Either solder lugs or RMA color-coded leads available in most units.
- **TRUE HIGH FIDELITY** — 3 practical ranges of audio transformers.

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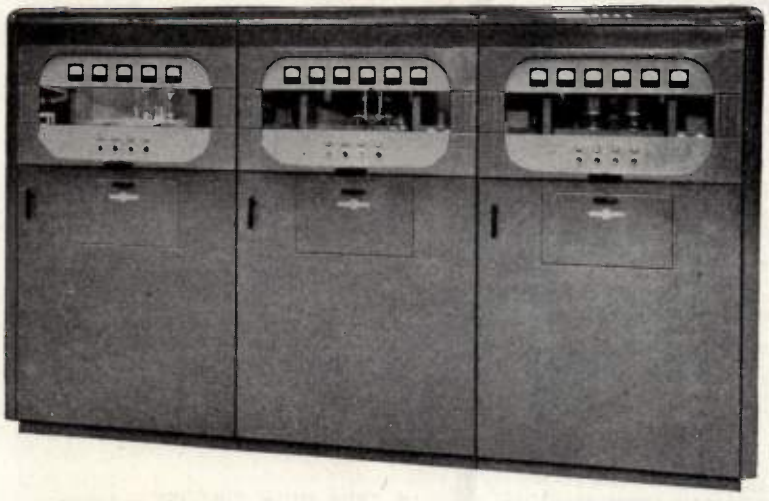
COLLINS RADIO COMPANY

● BROADCAST STATION EQUIPMENT



The Collins 734A 10 kw FM Transmitter

FM Transmitters

731A	250 watts
732A	1000 watts
733A	3000 watts
734A	10,000 watts
735A	25,000 watts
736A	50,000 watts

AM Transmitters

300G	250/100 watts
20T	1000/500 watts
21A	5000/1000 watts
21L/21B	10,000/5,000 watts

Write for descriptive bulletins.

The Collins 21L/21B AM 10,000/5,000 watt Transmitter

A good book to keep handy! Write for this new Collins speech equipment and accessories book. In it you will find illustrations and descriptions of preamplifiers, program amplifiers, line amplifiers, monitors, remote amplifiers, limiting amplifiers, consoles, equalizers, jack strips, meter panels, attenuators and many other high quality products for your studio, laboratory, and transmitter house.

The Collins 212A Speech Input Console

● COMMUNICATION AND NAVIGATION EQUIPMENT

Collins 51R Navigation Receiver

The Collins 51R VHF airborne receiver and attendant instruments shown at right will equip commercial transport planes for navigational use of the new omnidirectional range system. Ground equipment for this system is being installed progressively on the major U. S. airways, and the omnidirectional range is expected to supplement and ultimately replace the four-quadrant "beam" range for air navigation. In addition, this airborne equipment is employed as a part of the blind landing system currently being used and also provides a communication vehicle with the C. A. A. range stations as well as the airlines' own traffic stations.

Other Collins Communication Equipment

231D-13 Ground Station Autotune Transmitter. 2 to 18.1 mc. 3000 watts phone, 5000 watts CW.

16F-9 Ground Station Autotune Transmitter. 2 to 20 mc. 300 watts phone, 500 watts CW.

30K-2 Two Channel Ground Station Transmitter. 2 to 30 mc. 250 watts phone, 300 watts CW to 15 mc; slightly reduced power output from 15 to 30 mc.

18S-3 Twenty Channel Aircraft Transmitter-Receiver. 2.7 to 18 mc. 100 watts phone.

51H-3 Autotune Aircraft Receiver. 1.5 to 18.5 mc.

51M-2 VHF Single Channel Ground Station Receiver. 118 tc 136 mc.

Write for descriptive bulletins.

COLLINS RADIO COMPANY

RADIO AMATEUR EQUIPMENT

30K-1 Transmitter. 500 watts input on CW, 375 watts input on phone. Permeability tuned oscillator controlled. 80, 40, 20, 15, 11, 10 meter bands. Net price (complete with tubes) including 310A-1 Exciter Unit (complete with tubes), Microphone Cord, R.F. Cable, Power Cable and Instruction Book, F. O. B. Cedar Rapids, Iowa $1,450.00

The Collins 32V-1 Transmitter

32V-1 Compact band-switching, gang-tuned transmitter. 150 watts input on CW, 120 watts input on phone. PTO controlled. 80, 40, 20, 15, 11, 10 meter bands. Net price, complete with Tubes and Instruction Book, F.O.B. Cedar Rapids, Iowa $475.00

70E-8 Variable Frequency Oscillator, permeability tuned. Linear range: 1600 kc to 2000 kc, covered by 16 turns of the vernier dial. Very high accuracy and stability. For use in exciters, heterodyne frequency meters, for receiver alignment, etc. Net price, complete with Slide-rule and Vernier Dial Assembly, and Instruction Book, F.O.B. Cedar Rapids Iowa $40.00

310C-1 and 310C-2 Exciters. Identical except 310C-1 is furnished without, and 310C-2 with power supply. Both consist of 70E-8 PTO and a 6AG7 multiplier with r-f output of approximately 80 volts rms across 40,000 ohms. Output frequency: 3.2 mc to 4.0 mc. Net prices, complete with Tubes and Instruction Book, F.O.B. Cedar Rapids, Iowa:

310C-1 . . . . . $85.00
310C-2 . . . . . $100.00

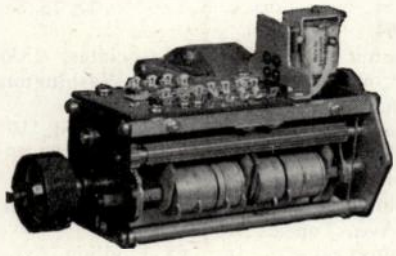
The Collins 75A-1 Receiver

75A-1 Receiver. Double conversion (triple detection). Calibrated directly in frequency. High accuracy, stability, sensitivity and image rejection. 80, 40, 20, 15, 11, 10 meter bands. Net price, complete with Tubes, Speaker and Cabinet Assembly, and Instruction Book, F.O.B. Cedar Rapids, Iowa, including excise tax $375.00

310B-1 and 310B-3 band-switching Exciters. Identical up to the output network. Circuit consists of 70E-8 PTO followed by three 6AG7 multipliers and a 2E26 r-f amplifier. Provides exceptional accuracy and stability. Covers 80, 40, 20, 15, 11, and 10 meter bands. 15 watts output on all bands. The 310B-1 output coupling is by means of a link in the plate tank coil, to drive a higher power final. The 310B-3, provided with a universal antenna network, may be used as a low power transmitter, or to drive a higher power final amplifier. Net prices, complete with Tubes and Instruction Book, F.O.B. Cedar Rapids, Iowa:

310B-1 . . . . . $190.00
310B-3 . . . . . 215.00

Any of the above Collins amateur equipment except the 70E-8 may be purchased for 20% down, 5% carrying charge on unpaid balance, which is divided into twelve equal monthly installments. Prices quoted above are exclusive of state tax. Send for descriptive literature.



The Collins 496E Autotune

The Collins Autotune is an electrically controlled device for mechanically repositioning adjustable rotary elements. Any combination of such components can be returned to any one of a number of preselected positions. The Collins type 496E Autotune shown here is used for reliable, extremely accurate push-button tuning of high quality all-wave AM and FM broadcast receivers, and also for the local or remote control of industrial equipment. Write us about your control problems.

IN RADIO COMMUNICATIONS, IT'S

COLLINS

COLLINS RADIO COMPANY, CEDAR RAPIDS, IOWA

11 West 42nd Street, New York 18, N. Y. **458 South Spring Street, Los Angeles 13, California**

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STANDARD BRAND LINES

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microwave Energy

The Sperry Klystron Tube to generate ultra-high-frequency microwaves . . .

The Sperry Klystron Signal Source to "power" them . . .

The Sperry Microline to test and measure them . . .

These Sperry products equip the research or development engineer with every essential for development or design in the microwave field.

The Sperry Klystron Tube has already opened up new vistas in navigation, aviation, medicine, radio, telephone, telegraph and other major applications. It is ready for many new local oscillator or high power uses.

The Sperry Microline includes practically every type of instrument for quick precision measurements in the microwave frequency bands.

This Sperry service — beginning with a source of microwave energy, the Klystron, and following through with every facility for measuring microwaves — opens up almost unlimited possibilities for industry.

We will be glad to supply complete information.

Sperry Gyroscope Company

DIVISION OF THE SPERRY CORPORATION · EXECUTIVE OFFICES: GREAT NECK, NEW YORK

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CAN SAVE YOU MONEY

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DRAKE Lighting Assemblies are specially designed for your requirements. Check up particularly on our new, low cost, compact U.L. approved 110v Light Socket. You've probably never seen one like it. Your engineers will be thankful for its development.

The units illustrated show varied styles of Sockets. Send your prints for specific Mounting Brackets, and electrical characteristics.

MINIATURE SOCKETS

117H 217H

CANDELABRA SOCKETS

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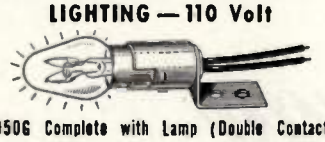
DECORATIVE AND ILLUMINATING LIGHTING — 110 Volt



A950G Complete with Lamp (Double Contact)

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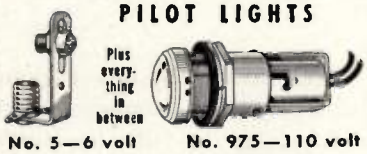

No. 5—6 volt No. 975—110 volt

Delay may be costly. Write us about your needs, today! Ask for our latest Catalog, too.

Socket and Jewel LIGHT ASSEMBLIES

DRAKE
MANUFACTURING CO.
1713 W. HUBBARD ST., CHICAGO 22

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Crucible Steel Co. of America, 405 Lexington Ave., New York 17, N.Y.—17, 36, 37

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The Crystrol Co., 410 Lafayette Ave., Cliffside Park 8, N.J.—18

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VERSATILE *New* TRANSMISSION MEASURING SET*

Frequency Range 30 CY to 17 KC

This gain set has been designed for the accurate and rapid measurement of the transmission characteristics of audio systems and their components. It is a direct reading instrument, entirely eliminating laborious calculations and complex set-ups. This unit is arranged so that the meters and their associated range controls can be independently used as VU meters in program monitoring.

TYPE 10-A

SPECIAL FEATURES

1. Completely shielded wide range isolation transformers used in the Input, Source and Load networks. Set functions equally well from balanced or unbalanced oscillators and measures balanced or unbalanced systems.
2. Accuracy ±0.1 DB, 50 cycles to 15 KC.
3. Accuracy independent of level over the range +26 to −100 DBM.
4. Source isolation provided for measurement of filter or equalizer networks or unloaded transformer input systems. Loss of isolation network automatically registers on the attenuation dials.
5. Attenuation steps of 111 DB in steps of 0.1 DB.
6. Source and Load impedances within ±2% over range 50 cycles to 15 KC.
7. Input and Load VI meters and attenuators can be used as standard 7500 ohm input VI networks. Calibration can be accurately adjusted without disturbing the calibration of the Transmission Measuring Set.
8. Provision for feeding Distortion-Noise meters.
9. Unit type assembly with individual sections, such as Source, Attenuation and Load can be readily removed from the panel for servicing, if necessary. Each section is a complete assembly with its own jacks and terminal block.

APPLICATIONS

1. Audio Gain Measurements.
2. Audio Loss Measurements.
3. Complex Circuit Measurements.
4. Measurements of matching and bridging devices.
5. Measuring Mismatch Loss.
6. Frequency Response Measurements.
7. May be used as two Volume Level Indicators.
8. Provision for feeding Distortion-Noise meters.

***Always Specify Daven* For Precision Equipment**

*Patent Pending

THE DAVEN CO.
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This unit was developed in cooperation with the General Engineering Department of the Columbia Broadcasting System.

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★ A new catalog . . . at no cost to you . . . of cathode-ray tubes and instruments . . . is available now . . . contains up-to-the-minute information on the very latest Du Mont cathode-ray tubes and instruments . . . detailed specifications are listed . . . use of each instrument explained . . . many applications are suggested . . . screen phosphors are interpreted.

For practical information regarding the tools of present-day oscillography, this catalog is a "must" in the working library of anyone engaged in oscillographic work.

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SEE PRODUCT INDEX PAGE 1A

DeJUR USA

DeJUR INSTRUMENTS

. . . designed for exacting performance

DeJUR—one of America's foremost names in high precision electrical components is now able to make prompt deliveries on standard and special types of equipment. Every instrument built conforms with JAN 1-6 and JAN R-19 specifications as well as A.S.A. standards.

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- Voltmeters
- Ammeters
- Milliammeters
- Microammeters
- Volume Indicators
- Potentiometers
- and many others.

We solicit your inquiries and the coupon below is for your convenience.

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There are models for electronic devices, radio transmitters, dynamic voltage control, portable power amplifiers, mixing panels, spot welding, motor control, etc. Available in standard, multiple or ganged units, and units with special resistance values and tolerances.

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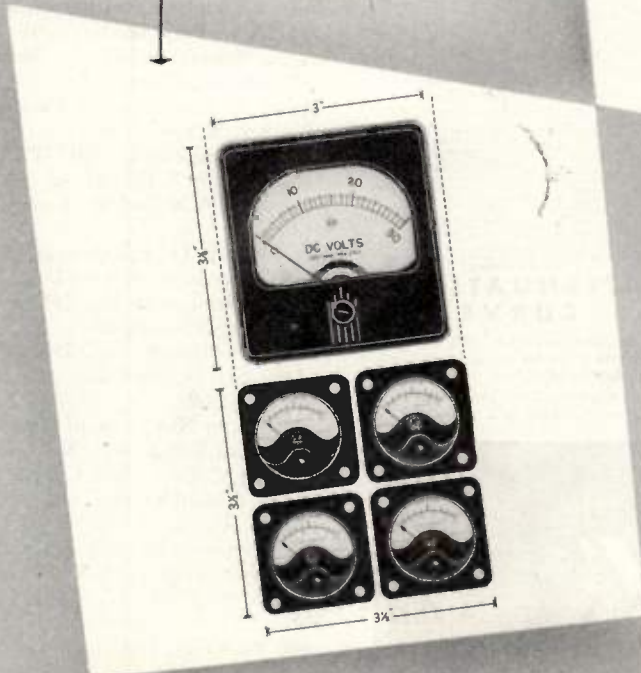
The DeJUR 1½-inch Model 112 Meter, measuring only 1¾ inches square and 25/32-inch deep is capable of doing a man-sized job where space is at a premium. This meter is built with fine watch precision. Available in standard ranges.



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Manufacturers of precision equipment for over a quarter century

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Please send me information regarding the instruments indicated:

- ☐ Voltmeters
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Simple New *Solderless* Couplings

Maintain Constant 51.5 Ohm Impedance

ANDREW *Flanged* COAXIAL TRANSMISSION LINE FOR FM-TV

Offering the dual advantage of easy, solderless assembly and a constant impedance of 51.5 ohms, this new ANDREW FM-TV line is available in four diameters. Each line fully meets official RMA standards. It also is recommended for AM installations of 5 Kw or over

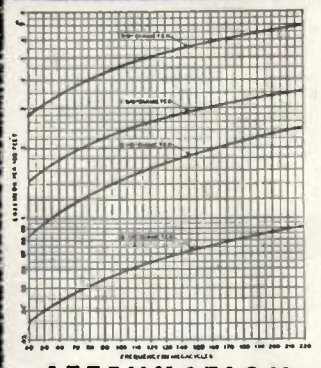
Fabricated in twenty foot lengths with brass connector flanges silver brazed to the ends, sections are easily bolted together. A circular synthetic rubber "O" gasket effectively seals the line. Flux corrosion and pressure leaks are avoided. A bullet-shaped device positively connects inner conductors.

Close tolerances are maintained on characteristic impedance in both line and fittings, assuring an essentially "flat" transmission line system.

Mechanically and electrically better than previous types, this new line has steatite insulators of exceptionally low loss factor. Both inner and outer conductors of all four sizes are of copper having very high conductivity.

Flanged 45 and 90 degree elbow sections, and a complete line of accessories and fittings available.

Better be safe, than sorry. Avoid costly post-installation line changes. Get complete technical data, and engineering advice, from ANDREW now.



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shows total loss plus 10% derating factor to allow for resistance of joints and deterioration with time.

Four diameters available: 6⅛"—3⅛"—1⅝" and ⅞".

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Pioneer Specialists in the Manufacture of a Complete Line of Antenna Equipment

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Eastern Electrical Co., Ltd., Westwood House Southtown Rd., Gt. Yarmouth, Eng.—94

Eastern Engineering Co., 186 Fox St., New Haven 6, Conn.—28, 35, 53

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Eastman Kodak Co., 343 State St., Rochester 4, N.Y.—44

Ebinger Radio & Supply Co., 2211 Gravois St., St. Louis 4, Mo.—94

Hugh H. Eby, Inc., 18 West Chelten Ave., Philadelphia 44, Pa.—25, 27, 31, 43, 51, 62

Ecco High Frequency Co., 7020 Hudson Blvd., N. Bergen, N.J.—96, 10, 28, 41, 65

Echophone Radio Co., 2611 S. Indiana Ave., Chicago 16, Ill.—55

Eckert Mauchly Computer Corp., Broad & Spring Garden Sts., Philadelphia, Pa.—20

Eckstein Radio & Television Co., Inc., Leroy, Minn.—1, 2, 55

Eclipse Manufacturing Co., Inc., 294 E. 137th St., New York 54, N.Y.—8, 13, 47

Editorial Albatros, Maipu 391, Buenos Aires, Argentina, S.A.—91

Editors & Engineers, Ltd., 1300 Kenwood Rd., Santa Barbara, Calif.—91

Editors Technical Associates, 60 E. 42nd St., New York 17, N.Y.—91

Edken Manufacturing Co., 58 High St., Thomaston, Conn.—27

Samuel E. Egert Co., 11 Park Pl., New York 7, N.Y.—34, 56, 66

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Eidsons, 1309 N. 2nd St., Temple, Tex.—18

Mr. Stanley D. Eilenberger, 6309 27th Ave., Kenosha, Wis.—93, 96

Eisler Engineering Co., 750 S. 13th St., Newark, N.J.—35, 53

Eitel McCullough, Inc., 197 San Mateo Ave., San Bruno, Calif.—10, 11, 15, 53, 58, 59, 62, 69

Elastic Stop Nut Corp. of America, 2330 Vauxhall Rd., Union, N.J.—27

El-Tronics, Inc., 1920 Lincoln Liberty Bldg., Philadelphia 7, Pa.—96, 1, 2, 20, 24, 40, 45, 52, 55, 60, 65, 66

Eldi Electronic Devices, 204 W. Houston St., New York 14, N.Y.—20, 23, 25, 27, 35, 36, 45, 47, 48, 52, 57, 61, 70

Eldico of New York, Inc., 4431 Douglaston Parkway, Douglaston, N.Y.—94

(Continued on page 32A)

SEE PRODUCT INDEX PAGE 1A

Representative RCA types standardized for future equipment designs

Tubes for today and tomorrow

HERE ARE power tubes, phototubes, and c-r tubes to serve the major requirements of equipment manufacturers for a long time to come. The tubes listed are those you can depend on now, and for your future designs.

These RCA types are especially recommended because their wide-spread application permits production to be concentrated on fewer types. Such longer manufacturing runs reduce costs—lead to improved quality and greater uniformity. Resultant benefits are shared alike by the equipment manufacturer and his customers.

RCA Application Engineers are ready to suggest suitable tube types for your design requirements. For further information write RCA, Commercial Engineering, Section FR-52, Harrison, N. J.

THE FOUNTAINHEAD OF MODERN TUBE DEVELOPMENT IS RCA

Preferred List of RCA Non-Receiving Types

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Kinescopes (Projection)	Camera Types	Oscillograph Types	Monoscope
5TP4	5527	2BP1	2F21
	2P23	3KP1	
(Directly Viewed)	5655	5UP1	
7DP4	1850-A		
7JP4			
10BP4			

PHOTOTUBES

Gas Types	1P41	921	927	930
Vacuum Types	922	929		
Multiplier	931-A			

GAS TUBES

Thyratrons	2D21	3D22	884	2050		
Ignitrons	5550	5551	5552	5553	5563	
Rectifiers	3B25	673	816	857-B	866-A	869-B
	8008					
Voltage Regulators	0A2	0C3/VR105	0D3/VR150			

POWER AMPLIFIERS AND OSCILLATORS

TRIODES (Air-Cooled)	TRIODES (Forced-Air-Cooled)	TRIODES (Water-Cooled)
811	6C24	9C21
812	7C24	9C27
826	9C22	889-A
833-A	9C25	892
8000	889R-A	
8005	892-R	
8025-A	5588	
	5592	

TETRODES (Air-Cooled)	TETRODES (Water-Cooled)	BEAM TUBES (Air-Cooled)	PENTODES (Air-Cooled)
4-125A/4D21	8D21	2E24	802
		2E26	828
		807	
		813	
		815	
		829-B	
		832-A	

The world's most modern tube plant . . .
RCA, Lancaster, Pa.

TUBE DEPARTMENT

RADIO CORPORATION of AMERICA

HARRISON, N. J.

OVER 20 YEARS EXPERIENCE IN THE DESIGN AND MANUFACTURE OF SPECIALTY TRANSFORMERS

STANDARD AND CUSTOM

SPECIALTY TRANSFORMERS

BY

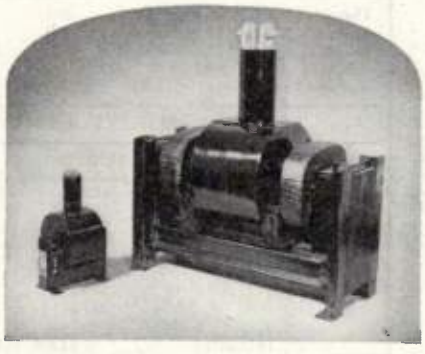
ELECTRO

ALL TYPES AND PURPOSES

Electro offers two new types of transformer construction particularly well suited to use in electronic power equipment and effecting economies in space and overall equipment costs.

"ELECTROSEAL" construction—one of the exclusive features of *Electro* design—combines in one unit the advantages of cased and uncased transformers. These dry-type, air-cooled transformers are dependable and conservative. They are available in sizes up to 50 KVA and in low or high voltages. They can be placed in same frame with rectifiers. *Example:* 50 KVA single phase transformer for 18,000 volts DC supply—12" D., 18" W., 25" H., self cooled.

THERMOPLASTIC DIELECTRICS enables us to obtain very high voltage insulations in a minimum space. High voltage coils are completely sealed in heavy plastic insulating materials. High voltage terminals are integrated into the coil housing. They are attractive in appearance, permanently reliable. Voltage insulations up to 150,000 volts are available in filament or plate transformers.



These two filament transformers illustrate distinctive ELECTRO design. Smaller transformer is a low-power filament type with 75,000 volt DC test rating on secondary. Size 6"W., 4½"D., 9½"H. Larger transformer is a filament supply for a 9C21 tube, 25 volts, 425 amperes, current limited to 725 amperes, 60,000 volts test. Size 20"W., 10"D., 21"H., forced air cooled.

LET OUR ENGINEERING STAFF RECOMMEND A PROPER SOLUTION TO YOUR TRANSFORMER PROBLEMS

ELECTRO ENGINEERING WORKS

6021 COLLEGE AVENUE, OAKLAND 11, CALIFORNIA

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Electric Eye Equip. Co., 6 W. Fairchild St., Danville, Ill.—20

The Electric Heat Control Co., 9123 Inman Ave., Cleveland 5, Ohio—58, 65

Electric Indicator Co., P.O. Box 476, Stamford, Conn.—41, 42

The Electric Products Co., 1725 Clarkstone Rd., Cleveland 12, Ohio—16, 41

Electric Soldering Iron Co., Inc., Deep River, Conn.—35
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Electric Sorting Machine Co., 410 44th St. S.W., Grand Rapids 8, Mich.—20, 71

Electric Specialty Co., 222 South St., Stamford, Conn.—16, 41

The Electric Storage Battery Co., Allegheny Ave. & 19th St., Philadelphia 32, Pa.—6

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Electrical Insulation Co., Inc., 12 Vestry St., New York 13, N.Y.—43, 50

Electrical Reactance Corp., Franklinville, N.Y.—10, 11, 14, 61
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Electrical Windings, Inc., 2015 N. Kolmar Ave., Chicago 39, Ill.—14, 66

Electricoil Transformer Co., 421 Canal St., New York 13, N.Y.—14, 52, 58, 66

Electro Controls Mfg. Co., Merchandise Mart Box 3730, Chicago 54, Ill.—59, 64

Electro Craft Company, 70 Strawberry Hill Ave., Stamford, Conn.—96

Electro Engineering Works, 6021 College Ave., Oakland 11, Calif.—93, 96, 14, 36, 52, 66, 71
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Electro Impulse Laboratories, P.O. Box 250, Red Bank, N.J.—45, 68

Electro Mechanical Instrument Co., 812 Chestnut St., Perkasie, Pa.—38

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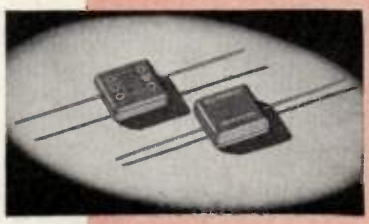
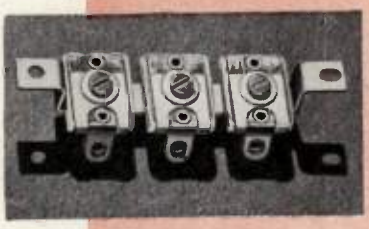
El-Menco

FAMOUS FOR CAPACITORS★

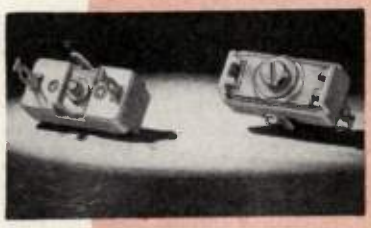
★ MOLDED MICA CAPACITORS



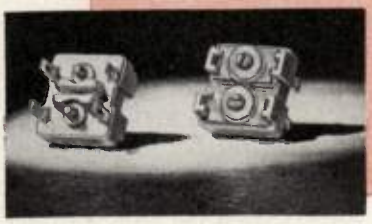
★ TRIMMER CAPACITORS

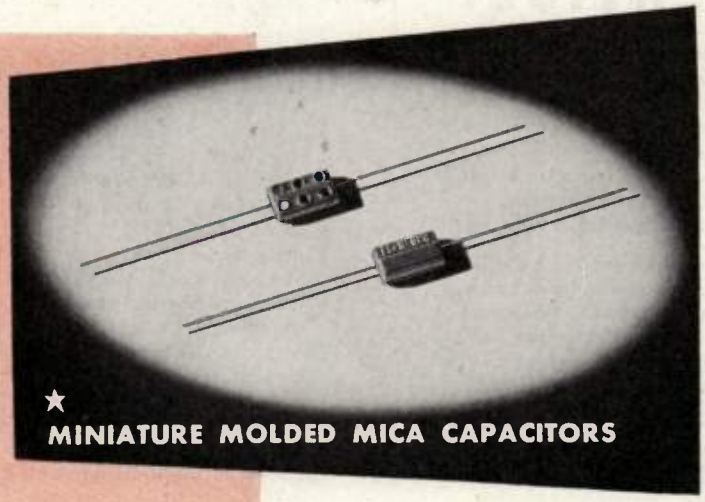


★ PADDERS



★ DUAL PADDERS





★ MINIATURE MOLDED MICA CAPACITORS

EL-MENCO products are the choice of manufacturers who want only the best. Their *international acceptance is earned by superior performance under actual operating conditions in all parts of the world.*

FOR . . .

RECEIVERS, TRANSMITTERS, TELEVISION, POWER AMPLIFIERS, AND OTHER ELECTRONIC APPLICATIONS

- Precisely manufactured.
- Dimensionally compact.
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- Micas immersion sealed.
- Micas color coded (JAN, RMA, RCM.)
- Micas tested (JAN, RCM Standards.)
- Micas standard and special tolerances.
- Trimmers and Padders. Guaranteed capacity ranges.

A word from you on your business letterhead will bring a free copy of "MICA CAPACITORS" BY EL-MENCO. Ask for types and prices.

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WILLIMANTIC CONNECTICUT

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SOLE DISTRIBUTOR FOR JOBBERS AND RETAILERS
IN U.S. AND CANADA
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HERMETIC SEALING SERVICE!

Electro-Seal service increases usefulness, life and freedom from maintenance of such electrical products as relays, transformers, choke coils, pulse transformers, amplifiers, rectifiers, crystals, vibrators, flashers, timers, etc.

Electro-Seal provides the design, enclosure, base, brackets and terminals. We assemble, wire and seal your component into the enclosure . . . or manufacture and supply the component parts.

Let us show you how "Electro-Sealing" can protect your product from the effects of altitude, moisture, dust and fumes.

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Des Plaines, Illinois

WHERE TO LOOK IT UP

Product information in this Yearbook is grouped in basic engineering classifications. Under each firm, in the alphabetical file, we listed as many products as we were sure would interest engineers, for 2100 companies. (Part II) Use this Alphabetical List to find the line of items made by each firm.

Listings by Products are given in Part III for our advertisers. These listings are backed by product advertising to which a cross reference is shown under each firm, as well as sub-classification detail.

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OFF THE SHELF SERVICE !

REQUEST
Catalog No. 48

ELECTRO-TECH Equipment
ELECTRICAL INSTRUMENT HEADQUARTERS
The Largest, Most Complete Stock of Electrical Instruments

ments we have available. However, all items listed are normally carried in stock and are ready for immediate delivery. Special ranges and instruments for unusual applications can be supplied on short notice.
Detailed descriptive and technical literature on all equipment is available and will be supplied on request.

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SECTION 3 . . . Pyrometers and Associated Equipment 22-27
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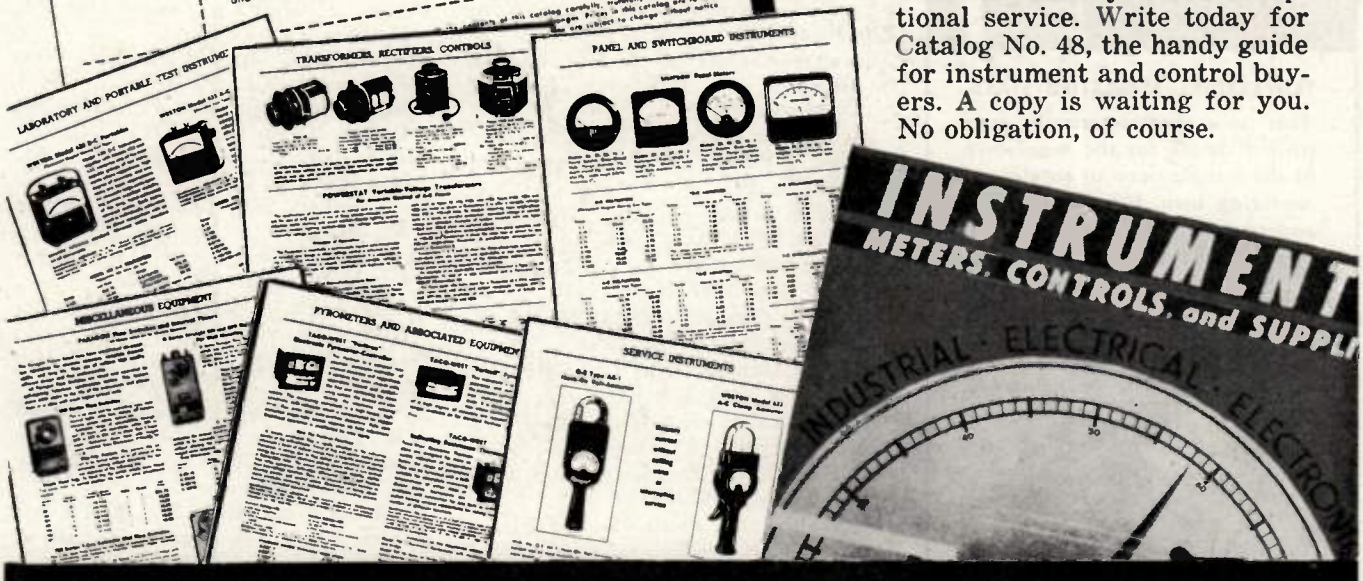
Including Timers and Time Switches, Counters, Photo-Electric Relays, Thermostats, Solenoids and Solenoid Valves, Motor Starters, Storage Battery Tester, Hardware and Accessories.

Here's your simple guide for every type of electrical instrument and control from ammeters to tachometers. No need to check through dozens of catalogs. No need to make telephone calls by the hour. And no need to spend your valuable time shopping from house to house or clogging your office with salesmen. Here within the covers of this catalog are 64 pages jam-packed with over 3,000 instruments and controls...fully described, illustrated and priced. Just to give you an idea of the wide variety of types in this catalog, we list a random dozen:

FLUXMETERS	AMMETERS
MEGGERS	BRIDGES
AUDIO VOLTMETERS	ELECTRONIC COUNTERS
OSCILLATORS	APPLIANCE TESTERS
PYROMETERS	ANALYZERS
DECADES	VOLTMETERS

Only Electro-Tech, the world's largest jobber of electrical, electronic and mechanical instruments and controls can offer you this exceptional service. Write today for Catalog No. 48, the handy guide for instrument and control buyers. A copy is waiting for you. No obligation, of course.



ELECTRO-TECH Equipment Co. Inc.

117 LAFAYETTE ST., NEW YORK 13, N. Y. WORTH 4 - 8610.

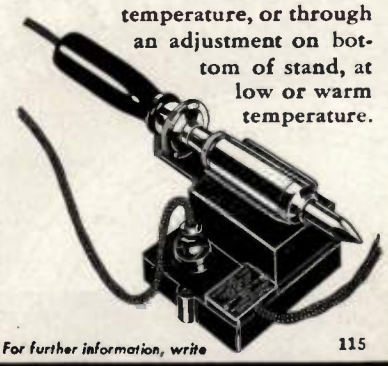
ELECTRIC SOLDERING IRONS

that are sturdily built for the hard service of industrial usage. Have plug type tips and are constructed on the unit system, with each vital part, such as heating element, easily removable and replaceable. In 5 sizes, and from 50 watts to 550 watts.

American Beauty

TEMPERATURE REGULATING STAND

This is a thermostatically controlled device for the regulation of the temperature of an electric soldering iron. When placed on and connected to this stand, iron may be maintained at working temperature, or through an adjustment on bottom of stand, at low or warm temperature.



For further information, write 115

AMERICAN ELECTRICAL HEATER COMPANY
DETROIT 2, MICHIGAN
established 1894

Alphabetical Directory of Firms

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Erie Can Co., 320 N. Elizabeth St., Chicago 7, Ill.—27

Erie Resistor Corp., Erie, Pa.—10, 11, 43, 61
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The Erwood Company, 214 Woodstock St., Crystal Lake, Ill.—93, 96

Espey Mfg. Co., Inc., 528 E. 72nd St., New York 21, N.Y.—45, 55

Esse Radio Co., 130 W. New York St., Indianapolis 4, Ind.—94

Essex Electronics, Berkeley Heights, N.J.—14, 66

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Esterline Angus Co., Indianapolis, Ind., 26, 38, 65

Eutectic Welding Alloys Corp., 40 Worth St., New York 13, N.Y.—35, 63

Eveready Label Corp., 151 E. 25th St., New York 10, N.Y.—27

Evergreen Pictures, 15 New Queen Rd., Saklat Hse. Box 3515, Bombay, India —94

F.M. & Television, 511 Fifth Ave., New York 17, N.Y.—91

A. W. Faber, Inc., 41 Dickerson St., Newark 4, N.J.—19

Fabricated Lightmetals Co., 42 W. 15th St., New York 11, N.Y.—3

Fada Radio & Elec. Co., Inc., 525 Main St., Belleville, N.J.—55

Fairchild Camera & Inst. Corp., 88-06 Van Wyck Blvd., Jamaica 1, N.Y.—2, 42, 46, 48, 57, 61

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Falstrom Company, 147 Falstrom St., Passaic, N.J.—13, 37

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Farmers Engineering & Mfg. Co., 549 Brushton Ave., Pittsburgh 21, Pa.—2, 20, 60

Farnsworth Television & Radio Corp., 3700 E. Pontiac St., Fort Wayne, Ind. —55, 56, 69

Farrand Optical Co., Inc., 238th St. & Bronx Blvd., New York 66, N.Y.—44

Farrar & Rinehart, Inc., 232 Madison Ave., New York 16, N.Y.—91

Farrelloy Company, 1243-45 N. 26th St., Philadelphia 21, Pa.—63

Favorite Manufacturing Co., 105 E. 12th St., New York 3, N.Y.—48, 57

Federal A.C. Switch Corp., 106 Kingsley St., Buffalo 8, N.Y.—64

Federal Electric Co., Inc., 8700 S. State St., Chicago 19, Ill.—64

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Federal Mfg. & Engineering Corp., 213 Steuben St., Brooklyn 5, N.Y.—5, 11, 24, 45, 65, 68

Federal Sapphire Prods. Co., P.O. Box 35, Elmhurst, N.Y.—57

Federal Screw Prods., Inc., 224 W. Huron St., Chicago 10, Ill.—27, 43, 49

Federal Telephone & Radio Corp., 100 Kingsland Rd., Clifton, N.J.—1, 3, 9, 10, 14, 23, 40, 52, 54, 55, 58, 59, 66, 67, 68, 69, 71
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Federal Tool & Mfg., Co., 3212 Washington Ave. N., Minneapolis 12, Minn.— 27

Federated Purchaser Inc., 80 Park Pl., New York 7, N.Y.—94

Feiler Engineering Co., 945 W. George, Chicago 14, Ill.—2, 45, 55, 65, 68

Felker Mfg. Co., Torrance, Calif.—18

G. Felsenthal & Sons, 4100 W. Grand Ave,. Chicago 51, Ill.—96, 12, 27, 43, 46, 48, 50

Fenwal, Inc., Ashland, Mass.—20

The R. Y. Ferner Co., 110 Pleasant St., Boston 48, Mass.—27

Ferranti Electric, Inc., 30 Rockefeller Plaza, New York, N.Y.—2, 14, 20, 23, 29, 38, 48, 52, 66
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Ferris Instrument Co., 110 Cornelia St., Boonton, N.J.—3, 5, 24, 45, 68

Fidelity Amplifier Co., 1632 N. Halsted St., Chicago 14, Ill.—2

Field Electrical Instrument Co., 109 E. 184th St., New York 53, N.Y.—68
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Fikot Products, 409 Pearl St., New York 7, N.Y.—58

Finch Telecommunications, Inc., 10 E. 40th St., New York 16, N.Y.—3, 20, 22, 26, 45, 55, 67, 68

Firestone Industrial Prods. Co., 1200 Firestone Pkwy., Akron 17, Ohio—8, 30, 43

Fischer Distributing Co., 118 Duane St., New York 7, N.Y.—94

H. G. Fischer & Co., 2323 Wabansia Ave., Chicago 47, Ill.—28, 69

Robert A. Fischer, 517 Commercial St., Glendale 3, Calif.—20, 28

Fischer & Porter Co., County Line Rd., Hatboro, Pa.—23, 38

Fischer Smith Inc., 164 State St., West Englewood, N.J.—96, 20

Fischer Pierce Co., Inc., 71 Ceylon St., Boston 21, Mass.—20, 71

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F. T. Fishers Sons Ltd., 4305 Iberville St., Montreal, Quebec, Can.—93

Five Star Radio Co., 416 Broadway, Cambridge, Mass.—55

Frederick Flader, Inc., 583 Division St., North Tonawanda, N.Y.—4

Flatbush Engineering Corp., 1040 E. 24th St., Brooklyn 10, N.Y.—68

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Flexo Wire Co., 70 W. 1st St., Oswego, N.Y.—3, 9, 73

The Fluor Corporation, Ltd., 2500 S. Atlantic Blvd., Los Angeles 22, Calif.— 93

Flush Wall Radio Co., 58 E. Park St., Newark 5, N.J.—55

Fonda Gage Company, 59 Daly St., Stamford, Conn.—35

Robert Fondiller Ind. Consultants, 50 Church St., New York 7, N.Y.—93

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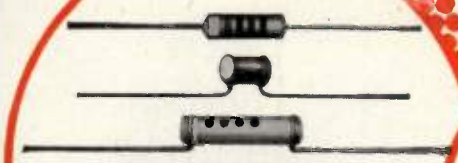
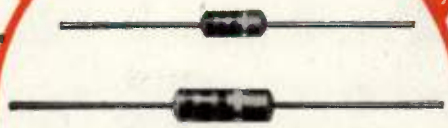
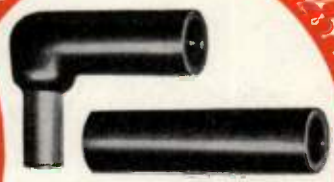


Temperature Compensating Molded Insulated Ceramicons
0.5 MMF—550 MMF
Temperature Compensating Dipped Insulated Ceramicons
0.5 MMF—15,000 MMF
Temperature Compensating Non-Insulated Ceramicons
0.5 MMF—1,770 MMF

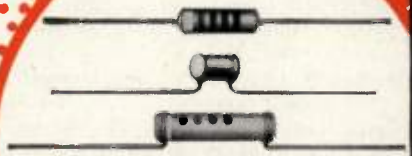


Types 504B, ½ Watt—518B, 1 Watt Resistors
10 ohms—22 megohms



Types L-4, L-7, S-5 Suppressors for Spark Plugs and Distributors

Cinch-Erie Plexicon Tube Sockets with 1,000 MMF built in by-pass condensers



Erie "GP" Molded Insulated Ceramicons
10 MMF—5,000 MMF
Erie "GP" Dipped Insulated Ceramicons
0.5 MMF—15,000 MMF
Erie "GP" Non-Insulated Ceramicons
10 MMF—10,000 MMF

come to

ERIE RESISTOR

for quality and economy in

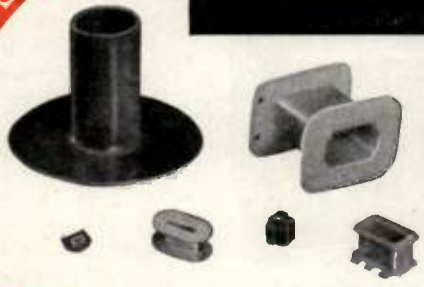
ELECTRICAL COMPONENTS

High quality is joined with simplicity in design to assure long-life economy and ease of installation in ERIE RESISTOR products. A complete line of Ceramic Condensers for receiver and transmitter applications; Button Mica Condensers for high frequency applications; Carbon Resistors and Suppressors; Custom Injection Molded Plastic Knobs, Dials, Bezels, Nameplates and Coil Forms. Complete technical information on request.

Electronics Division
ERIE RESISTOR CORP., ERIE, PA.
LONDON, ENGLAND . . TORONTO, CANADA

High Voltage Double Cup and plate Condensers
Up to 15,000 VOLTS WORKING

Button Mica Condensers
15 MMF—6,000 MMF



Custom Injection Molded Plastic Knobs, Dials, Bezels, Name Plates, Coilforms, etc.

Type 557 Ceramicon Trimmer

Type 531 and 532 Tubular Trimmers
0.5-5 MMF
1-8 MMF

Type TS2A Ceramicon Trimmer
1.5-7 MMF 3-13 MMF 4-30 MMF
3-12 MMF 5-20 MMF 7-45 MMF

Type 554 Ceramicon Trimmer
3-12 MMF
5-25 MMF
5-30 MMF
8-50 MMF

Type 720A

Types 323 and 324 Insulated

Type 2322

Type 2336

Erie Stand-Off Ceramicons
5 MMF—5,000 MMF

Feed-Thru Ceramicons
3 MMF—1,000 MMF
3 MMF—1,500 MMF

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Frankel & Nelson, 7716 Firenze Ave., Los Angeles 46, Calif.—93
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The Franklin Institute Labs., Benj. Franklin Pkwy., 20th St., Philadelphia 3, Pa.—96
C. J. Franks Laboratories, Inc., Box 59 Boonton, N.J.—93, 96
George E. Fredericks Co., Bethayres, Pa.—26, 69
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Freeland & Olschner Prods., Inc., 611 Baronne St., New Orleans 13, La.—69
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Fusite Corporation, 5324 Carthage Ave., Norwood, Cincinnati 12, Ohio—30

G B H Prods. Co., 180 Davison St., Lynbrook, N.Y.—20
G. M. Laboratories, Inc., 4300 N. Knox Ave., Chicago 41, Ill.—20, 38, 59
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Gaertner Scientific Corp., 1201 Wrightwood Ave., Chicago 14, Ill.—35, 44, 65
Galbreath Service Co., 473 W. Main St., Bloomsburg, Pa.—96
The Gamewell Co., 1238 Chestnut St., Newton, Upper Falls 64, Mass.—20, 61
Gamma Instrument Co., Inc., 95 Madison Ave., New York 16, N.Y.—20
Gamma Laboratories, 82 College Ave., Poughkeepsie, N.Y.—93
Louis Gancher Co., 50 West Broadway, New York 7, N.Y.—94
Gardiner Levering Co., Haddon Heights, N.J.—32
Gardiner Metal Co., 4824 S. Campbell Ave., Chicago 32, Ill.—63
Garod Radio Corp., 70 Washington St., Brooklyn 1, N.Y.—55
Garrard Sales Corp., 315 Broadway, New York 7, N.Y.—56
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The Gavitt Mfg. Co., Inc., Central St., Brookfield 1, Mass.—3, 9, 73
Gawler Knoop, Inc., 1060 Broad St., Newark 2, N.J.—94
Gedney Electric Co., 1270 6th Ave., New York, N.Y.—15
Gee Electric Co., 1406 Main St., Wheeling, W.Va.—94
D. W. Gellerup, 5437 N. Santa Monica Blvd., Milwaukee 11, Wis.—93
Gem Ear Phone Co., Inc., 80 Franklin St., New York 1, N.Y.—2
Gemloid Corporation, 79-10 Albion Ave., Elmhurst, L.I., N.Y.—43, 50
Gem Radio & Television Co., 639 10th Ave., New York 19, N.Y.—65
General Aniline & Film Corp., 444 Madison Ave., New York 22, N.Y.—17, 50
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General Aviation Equip. Co., Inc., 2 East End Ave., New York 21, N.Y.—1, 71
General Cement Mfg. Co., 919 Taylor Ave., Rockford, Ill.—1, 27, 30, 33, 35, 43, 50, 51, 54, 57, 62, 64, 72
General Ceramics & Steatite Corp., Plant 3, Crows Mill Rd., Keasbey, N.J. —12, 30, 43
General Communication Co., 530 Commonwealth Ave., Boston 15, Mass.—93, 1, 24, 54, 55, 57, 65, 67, 68
General Control Co., 1200 Soldiers Field Rd., Boston 34, Mass.—20, 64
General Dry Batteries of Can., Ltd., 228 St. Helens Ave., Toronto 4, Ontario, Can.—6
General Electric Co., 1 River Rd., Schenectady, N.Y.—1, 2, 3, 4, 9, 10, 12, 15, 16, 18, 20, 23, 24, 25, 28, 30, 33, 34, 36, 38, 40, 41, 42, 43, 45, 46, 48, 49, 50, 52, 54, 55, 57, 58, 59, 60, 64, 65, 66, 67, 68, 69, 71, 72, 73
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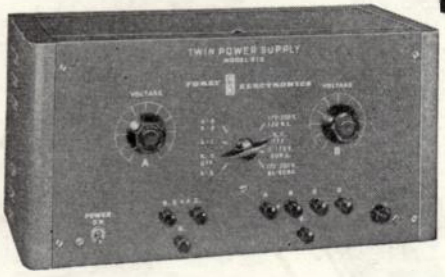
ELECTRONIC INSTRUMENTS

WOW METER

Model 115-R

For measuring frequency wow, distortion and flutter in phonograph turntables, wire recorders, motion picture projectors, etc.



TWIN POWER SUPPLY

Model 210

Two independent sources of regulated and adjustable D.C. conveniently combined on one cabinet.

We specialize in the manufacture of instruments in the audio and supersonic ranges.

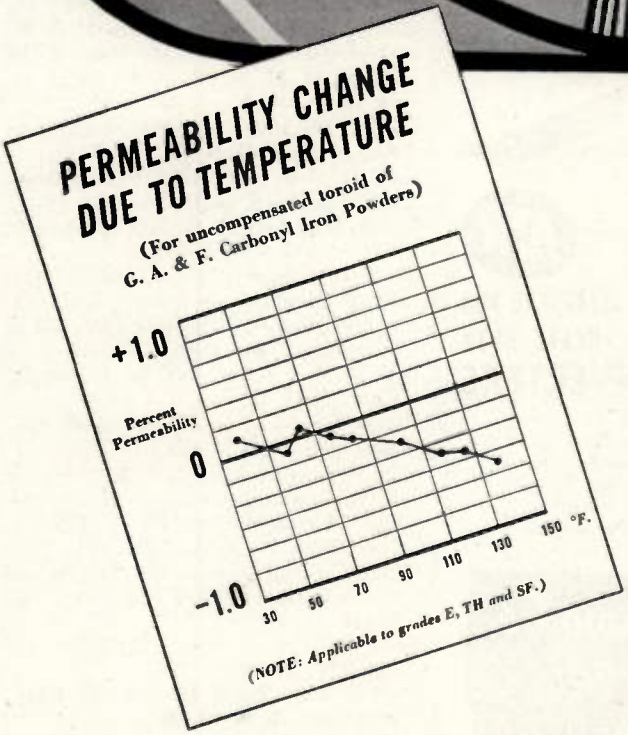
Write for Detailed Information

FURST ELECTRONICS

North Avenue and Halsted St., Chicago 22, Illinois

Keep DISTORTION out of the picture

Photograph, courtesy of National Broadcasting Company, Inc.



Distortion of the television image can be reduced more effectively if your wave trap is cored with a G. A. & F. Carbonyl Iron Powder.

The inherent characteristics of G. A. & F. Carbonyl Iron Powders enable your core maker to produce cores with negligible temperature drift and excellent magnetic stability. Such cores in well designed coils give incomparable fidelity to your TV and RF circuits.

WHEN USED at radio frequency, G. A. & F. Carbonyl Iron Powders are superior in all important coefficients of stability (magnetic and temperature) and loss (eddy current and residual).

In comparison with air-cored coils, G. A. & F. Carbonyl Iron Powder-cored coils permit considerable savings in volume, weight and wire-length, along with great increases in inductance and Q value.

Ask your core manufacturer for information about G. A. & F. Carbonyl Iron Powders. Or write direct to: Antara Products, 444 Madison Avenue, New York 22, N. Y. Dept. 45

G. A. & F. CARBONYL IRON POWDERS

An Antara Product of General Aniline & Film Corporation*

*®

Everybody agrees
ATR AUTO RADIO VIBRATORS
are TOPS

ATR AUTO RADIO VIBRATORS
have Ceramic Stack Spacers

A Complete Line of Vibrators . . .
Designed for Use in Standard Vibrator-Operated Auto Radio Receivers. Built with Precision Construction, *featuring Ceramic Stack Spacers* for Longer Lasting Life.
Backed by more than 17 years of experience in Vibrator Design, Development, and Manufacturing--
ATR PIONEERED IN THE VIBRATOR FIELD.

New 34 page VIBRATOR GUIDE **FREE**

New Models

ATR

"A" BATTERY ELIMINATORS

For DEMONSTRATING AND TESTING AUTO RADIOS

New Models . . . Designed for Testing D. C. Electrical Apparatus on Regular A. C. Lines. Equipped with Full-Wave Dry Disc Type Rectifier, Assuring Noiseless, Interference-Free Operation and Extreme Long Life and Reliability.

New Models

ATR

STANDARD AND HEAVY DUTY INVERTERS

For Inverting D. C. to A. C. . . . Specially Designed for operating A. C. Radios, Television Sets, Amplifiers, Address Systems, and Radio Test Equipment from D. C. Voltages in Vehicles. Ships, Trains, Planes and in D.C. Districts.

✓ NEW MODELS
✓ NEW DESIGNS
✓ NEW LITERATURE
See your jobber or write factory

AMERICAN TELEVISION & RADIO CO.
Quality Products Since 1931
SAINT PAUL 1, MINNESOTA—U.S.A.

Alphabetical Directory of Firms

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General Laminated Prods., Inc., of Ill., 2857 S. Halsted St., Chicago 8, Ill.—43, 50, 62

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General Motors Corp., Delco Radio Div., P.O. Box 737, Kokomo, Ind.—55

General Motors Corp., Packard Elec. Div., Warren, Ohio—42, 60, 73

General Motors Corp., Sunlight Elec., 523 Dana Ave., Warren, Ohio—9

General Precision Equip. Corp., 92 Gold St., New York 7, N.Y.—2, 55, 60

General Precision Laboratory, Inc., 63 Bedford Rd., Pleasantville 63, N.Y.—96, 2, 55, 60

General Radio Co., 275 Massachusetts Ave., Cambridge 39, Mass.—2, 5, 9, 10, 11, 14, 15, 20, 23, 24, 27, 29, 31, 38, 40, 43, 45, 51, 52, 61, 64, 65, 68, 71
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General Tire & Rubber Co., Wabash, Ind.—30

General Transformer, 4321 N. Knox, Chicago, Ill.—14, 52, 66

General Winding Co., 420 W. 45th St., New York 19, N.Y.—14, 17, 23, 29, 54, 66

Geophysical Service Inc., 6000 Lemmon Ave., Dallas 9, Tex.—14, 23, 26, 55, 66, 67

Geotechnical Corp. of Delaware, 3712 Haggar Dr., P.O. Box 7166, Dallas 9, Tex.—96

M. A. Gerett Corp., 724 W. Winnebago St., Milwaukee 5, Wis.—96

G. M. Giannini & Co., Autoflight Instrument Div., 285 West Colorado St., Pasadena 1, Calif.—59, 61

George W. Borg Corp., Gibbs Div., 902 Wisconsin St., Delavan, Wis.—2, 10, 11, 20, 24, 25, 34, 39, 42, 44, 50, 55, 61, 64, 69

Gibson Electric Co., 8350 Frankstown Ave., Pittsburgh 21, Pa.—27, 37

Gilfillan Bros. Inc., 1815 Venice Blvd., Los Angeles 6, Calif—96, 1, 54, 55

Gilner Mfg. Co., 21 E. 34th St., Steger, Ill.—1, 2, 3, 4, 9, 55

Glenn D. Gillett & Assoc., 982 National Press Bldg., Washington 4, D.C.—93

The Girdler Corp. Thermex Div., 224 E. Broadway, Louisville 1, Ky.—28

Gits Molding Corp., 4600 W. Huron St., Chicago 44, Ill.—43

Glaser Lead Co., Inc., 31 Wyckoff Ave., Brooklyn 27, N.Y.—63

The Glasscraft Co., 5210 E. Olympic Blvd., Los Angeles 22, Calif.—35

Globe Electronics Inc., 225 W. 17th St., New York 11, N.Y.—2, 55, 56

Globe Products Corp., 870 Maplewood Ave., Bridgeport 5, Conn.—96, 2, 20, 27, 45, 65

Fred Goat Co., Inc., 314 Dean St., Brooklyn 17, N.Y.—27

Paul Godley Co., 10 Marion Rd., Upper Montclair, N.J.—93, 96
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SEE PRODUCT INDEX PAGE 1A

VARIACS *for*

Smooth VOLTAGE CONTROL

● THE VARIAC* — the original continuously-adjustable autotransformer — is the ideal device for controlling any a-c operated equipment. VARIACS not only supply perfectly stepless control of voltage from zero, but also supply output voltages 17% above line voltage. VARIACS are correctly designed for many years of trouble-free operation. Data below are for single-phase operation. Polyphase assemblies are available.

SINGLE-PHASE DATA

	LINE VOLTAGE	OUTPUT RATED AMPS.	OUTPUT MAX. AMPS.	OUTPUT VOLTAGE	OUTPUT KVA	CASE	TYPE	PRICE
TYPE 200-B	115	1	1.5	0-115 0-135	.170	(1)	200-B	$12.50
TYPE V-5	115	5	7.5	0-115 0-135	.862	(1) (2) (3)	V-5 V-5M V-5MT	18.50 20.50 25.00
	230	2	2.5	0-230 0-270	.575	(1) (2)	V-5H V-5HM V-5HMT	21.00 23.00 27.50
TYPE V-10	115	10	15	0-115 0-135	1.725	(1) (2) (3)	V-10 V-10M V-10MT	33.00 35.50 40.00
	230	4	5	0-230 0-270	1.15	(1) (2) (3)	V-10H V-10HM V-10HMT	34.00 36.50 41.00
TYPE V-20	115	20	30	0-115 0-135	3.45	(4)	V-20M	55.00
	230	8	10	0-230 0-270	2.3	(4)	V-20HM	55.00

The trade name VARIAC is registered at the U. S. Patent Office. VARIACS are patented under U. S. Patent No. 2,009,013 and are manufactured and sold only by General Radio Company or its authorized agents.

(1) *Unmounted model.*
(2) *Protective case around windings.*
(3) *Protective case, terminal cover, line switch, convenience outlet and 6-foot line cord.*
(4) *Protective case, terminal cover and BX outlet.*
(5) *Two gang assembly — requires type 50-P1 Choke — $10.00*

TYPE 50	115	40 80	45 90	0-115 0-135	5 10	(4) (5)	50-A 50-AG2(5)	140.00 310.00
	230	20 40	31 62	0-230 0-270	7 14	(4) (5)	50-B 50-BG2(5)	140.00 310.00

GENERAL RADIO COMPANY

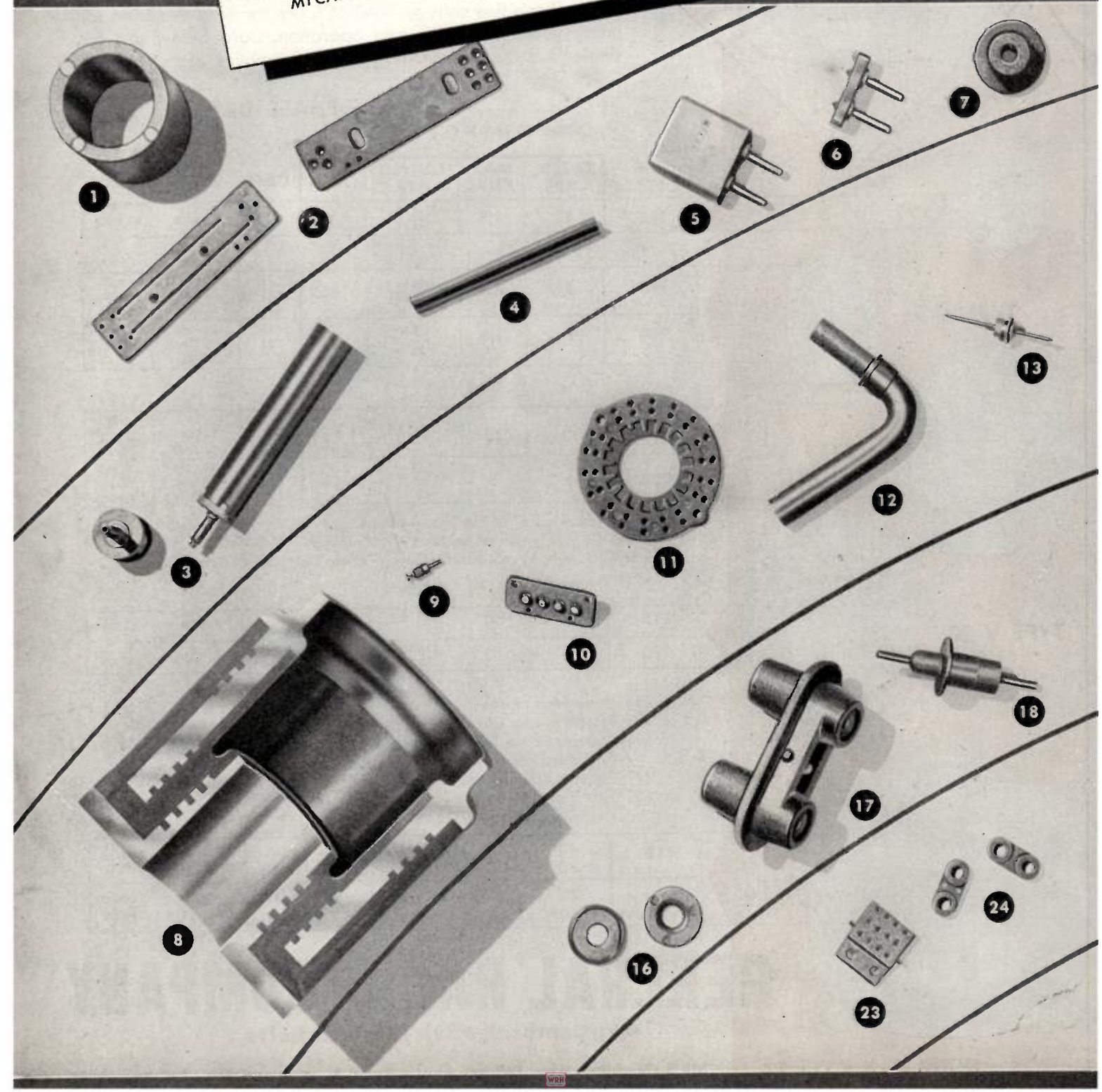
Cambridge 39, Massachusetts

90 West St., New York 6 — 920 S. Michigan Ave., Chicago 5 — 950 N. Highland Ave., Los Angeles 38

SINCE 1919
MYCALEX
THE INSULATOR
TRADE MARK REG. U. S. PAT. OFF.

Memo to...DESIGN ENGINEERS *about*...MYCALEX 410 - MOLDED

In the design of components or complete equipment for industrial controls or communications—where insulation qualities are of critical importance—where mechanical precision must be a fixed factor—where strength is essential—where electrical characteristics must accurately meet high frequency circuit needs . . . then remember MYCALEX 410 as the insulation that designs-in with your most exacting requirements.



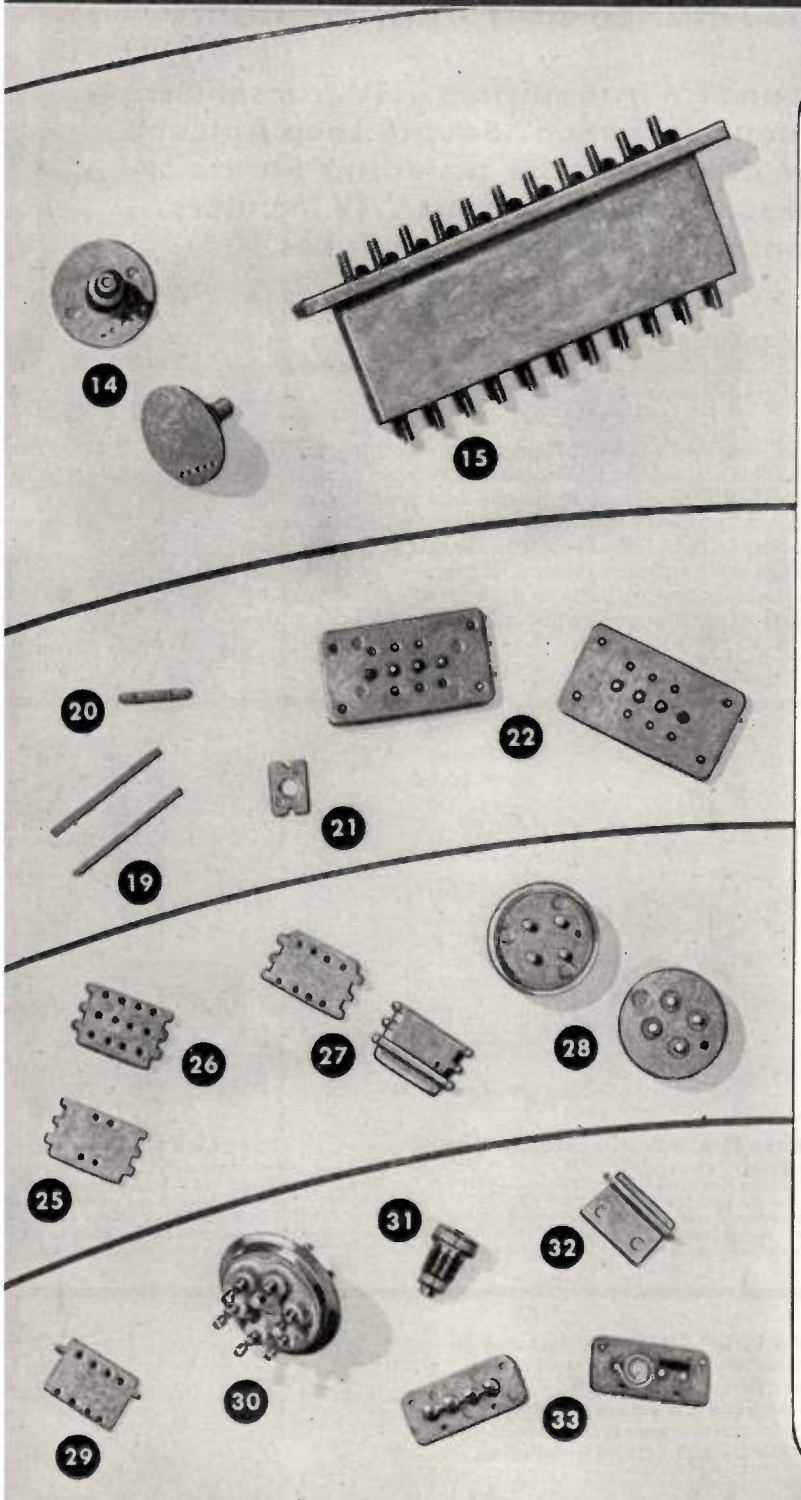
MYCALEX is today's improved insulation — designed to meet the exacting demands of all types of high-frequency circuits. MYCALEX is unusual in that it possesses a combination of peculiar characteristics that make it ideally suited for insulation in all types of electronic circuits. In tomorrow's designs for communications and industrial control equipment, MYCALEX 410 will be specified more than ever before because of its . . . Low dielectric loss · High dielectric strength · High arc resistance · Dimensional stability over wide humidity and temperature changes · Resistance to high temperatures · Mechanical precision · Mechanical strength · Ability to mold metal inserts in place. If you have any insulation problems, our engineers will be glad to help you in their solutions.

MYCALEX CORP. OF AMERICA

"Owners of 'MYCALEX' Patents"

Plant and General Offices: Clifton, N. J. Executive Offices: 30 Rockefeller Plaza, New York 20, N. Y.

SINCE 1919 MYCALEX THE INSULATOR TRADE MARK REG. U.S. PAT. OFF.



	PART NAME	APPLICATION	INSERTS	MAX. DIMEN.
1	Bushing	Motor Generator	None	1.75"
2	Insulator	Electrical Instrument	None	3.18
3	End Seal	Thermostat Shell	Stainless Steel	3.75
4	Insulator	Electrical Instrument	None	3.00
5	Hermetic Seal	Crystal housing	Nickel and Copper	0.88
6	Hermetic Seal	Crystal housing	Copper	1.09
7	Insulator	Automobile Antenna	None	1.06
8	Bushing	Ignitron	Steel	4.50
9	Stand-Off Insulator	Electronics circuit	Brass	0.56
10	Panel	Television Selector Switch	Silver	1.38
11	Switch Wafer	Television Selector Switch	None	2.31
12	Elbow	Aircraft ignition	Steel and Brass	2.75
13	Lead	Transformer	Monel	1.75
14	Insulator	Polarizing relay	None	1.09
15	Lead through block	Oscillator	Brass	4.69
16	Insulator	Telephone Transmitter	None	0.88
17	Dual Bushing	Oil Burner Transformer	None	3.00
18	Lead	Transformer	Monel	2.50
19	Actuating Bar	Telephone relay	None	1.44
20	Actuating Bar	Telephone relay	None	0.78
21	Spacer	Radio vibrator	None	0.56
22	Panel	Television Selector Switch	None	1.75
23	Spacer	Telephone relay	None	1.00
24	Spacer	Relay	None	0.91
25	Spacer	Telephone relay	None	1.00
26	Spacer	Telephone relay	None	1.00
27	Clamping Plate	Telephone relay	None	1.00
28	Electrode Mounting	Level Indicator	Brass	1.13
29	Spacer	Telephone relay	None	1.00
30	Six Terminal Header	Transformer	Monel	1.42
31	Test jack body	High Frequency Circuits	Monel	0.75
32	Clamping Plate	Telephone relay	None	1.00
33	Printed Circuit Base	Experimental	Silver	1.38

FEDERAL

BROADCAST EQUIPMENT

... An Outstanding Line Offering Finest Performance and Real Economy

In standard AM and FM transmitters ... TV transmitters for low or high band operation .. Square Loop Antenna ... special new developments including Studio-to-Transmitter Links ... Dummy Antenna ... TV Monitors ... High Power Transmitting and Rectifier Tubes.

You can count on Federal Broadcast Equipment—from a complete system to an individual installation. Federal Broadcast Equipment brings you the latest in engineering technique and practice ... high quality of materials ... precision craftsmanship of the highest order. There is real economy in both initial cost and operation. And you are assured of the finest performance, because Federal sees every job through. This Federal policy upholds a reputation established by more than 38 years of continuous achievement in the radio transmission field.

FEDERAL'S FM 10 KW Transmitter, officially approved by the FCC, has the exclusive "Frequematic" FM Modulator. It reduces distortion and noise well below RMA specifications, and stabilizes mean carrier frequency within 0.001 per cent of assigned value. This transmitter combines outstanding fidelity with economy, accessibility and highly dependable performance.

FEDERAL'S Transmitting Tubes provide long service. They stand up under severe operating conditions, and maintain original characteristics for life.

FEDERAL'S TV Monitor meets all FCC requirements. Designed for long service life, it accurately measures video carrier frequency, and monitors sound carrier and modulation.

FEDERAL'S Field Intensity Meter accurately measures signal intensity of AM broadcasting stations whether in the standard band of 530-1600 Kc—200 to 400 Kc—1600 to 3600 Kc—or 3600 to 7000 Kc. This 29-lb. unit is portable.

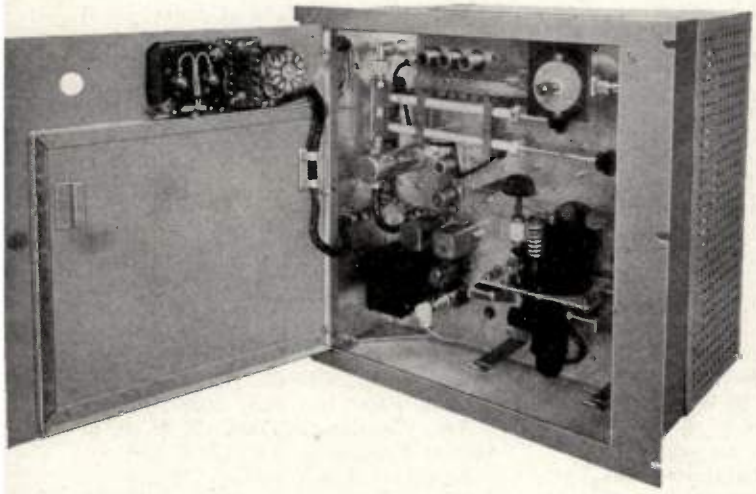
HIGHEST GAIN IN THE FIELD WITH FEDERAL'S SQUARE LOOP ANTENNA. In many installations from coast to coast, this design is producing an effective radiated power of as much as twelve times the Kilowatt rating of the FM transmitter. This means new power and new range for better and wider service. Federal's Square Loop Antenna also brings you simplicity of mechanical and electrical design ... greater accessibility for maintenance ... no operational tuning ... maximum lightning protection ... immediate delivery and ease of installation.

WRH

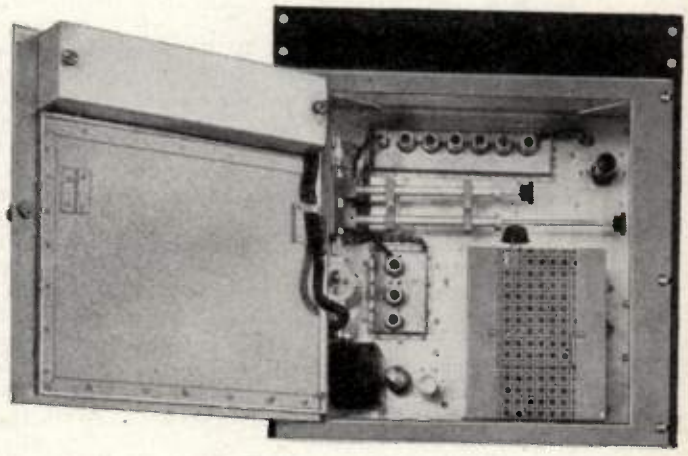
Federal's Studio-to-Transmitter Link for High Fidelity Program Transmission

Here's the new Federal microwave system to eliminate S-T wire and cable circuits. Combining outstanding fidelity – distortion less than 1% over 50-15,000 cycles – low noise level, 65 db below 100% modulation – and a 35-mile "line of sight" range – this system complies with all applicable FCC regulations for good engineering practice. Link consists of a transmitter, receiver and two standard 6-foot parabolic reflectors (4- or 8-foot reflectors supplied on request).

ONE OF MANY NEW DEVELOPMENTS BY FEDERAL TELECOMMUNICATION LABORATORIES

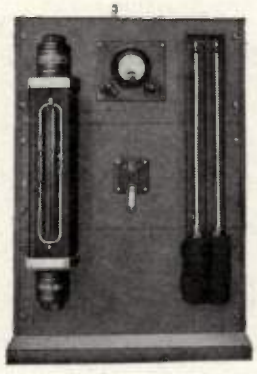


TRANSMITTER employs advanced-design direct frequency modulation and crystal-controlled klystron power oscillator. Complete monitoring facilities include frequency and power measurements, aural monitoring, and vacuum tube metering. Designed for mounting on standard 19" relay rack, it is only 35" high and 13" deep.



RECEIVER is a single superheterodyne which utilizes reflex-klystron local oscillator. It features pre-selection to reduce possibility of spurious interference. Relative stability is maintained within 0.01 per cent with automatic frequency control. Metering is provided for all vacuum tube circuits, carrier level, and crystal current. Same mounting and size as transmitter.

FEDERAL'S De Luxe Studio Console combines control of all facilities of an FM transmitter into one unit – a "nerve center" – convenient, foolproof, and handsome in appearance.



FEDERAL'S All-Metal Dummy Antenna meets the need of the Broadcasting Industry for testing of high power, VHF and microwave (FM and TV) transmitters. No conventional resistors and insulators. Compact, light, water-cooled – determines RF power accurately.

FEDERAL'S Standard 5KW AM Broadcast Transmitter assures high fidelity performance and maximum operating efficiency. Nominal output of 5KW can be transferred instantaneously to 1 KW. Every component is conservatively operated. Every circuit is engineered for maximum life of its elements. A new simplified power supply reduces maintenance to a minimum. Standard operating band.

FTR
an IT&T Associate

KEEPING FEDERAL YEARS AHEAD... is IT&T's world-wide research and engineering organization, of which the Federal Telecommunication Laboratories, Nutley, N. J., is a unit.

Federal Telephone and Radio Corporation

100 KINGSLAND ROAD, CLIFTON, NEW JERSEY

In Canada: Federal Electric Manufacturing Company, Ltd., Montreal, P. Q.
Export Distributors: International Standard Electric Corp. 67 Broad St., N. Y.

WRH

Alphabetical Directory of Firms

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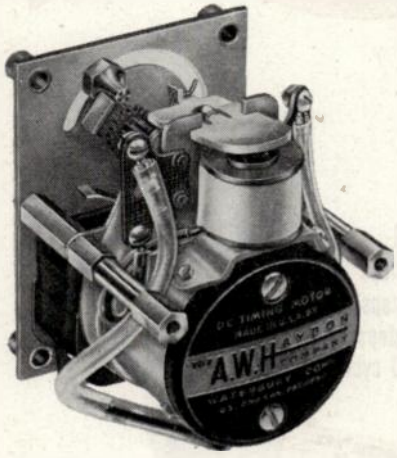
TIMERS... by the A. W. Haydon Co.



Series 6400 D.C. and 11400 A.C. Differential Time Delay Relay

Model 6401 illustrated
LEFT, with cover removed
RIGHT, enclosed in dust cover

Size 2-3/4" D. x 2-7/32" x 3-9/32". Weight approx. 1 lb.

Basically new geared differential and electro-magnetic capstan type clutch insure positive operation under adverse conditions.

- No gear shift or toothed clutch mechanisms
- Wide range of delay intervals
- Adjustable or fixed interval
- Compact, flexible, yet simple in design
- Can be wired for time delay or interval timing functions
- Automatic instantaneous reset

Series 5300 D.C. Standard Motor

Size 2-1/8" x 2-1/2" x 1-3/8". Weight 6 oz.

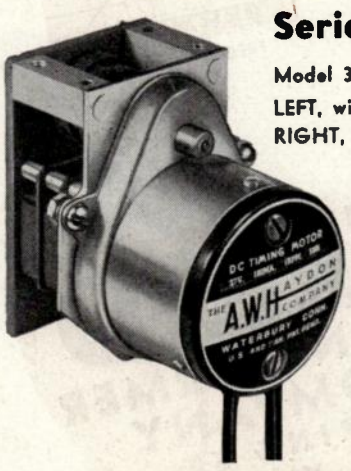
- Permanent magnet type motor totally enclosed in welded steel housing with integral gear train.
- Speed variable over wide range
- Reversible
- Lifetime sealed-in lubrication
- Long-wearing brushes (approx. 5,000 hrs., brushes easily replaceable)
- Seven segment commutator
- Low reactance rotor winding
- Compact . . . light weight
- Low current consumption . . . 100 milliamperes or less.

Series 6300 D.C. Low Current High Impedance Motor

Size 2-1/8" x 2-1/2" x 1-3/8". Weight 6 oz.

- Extremely versatile — this motor has high impedance winding developed especially for applications requiring mechanical work derived from a small receiving tube
- Power requirement only 270 milliwatts
- Current at no load is approximately 6 milliamperes with 45 volts supply
- Speeds available from 3200 RPM down to 3 revolutions per hour

Series 3600 D.C. and 13600 A.C. Repeat Cycle Timer



Model 3602
LEFT, with housing removed
RIGHT, enclosed in pressure sealed housing

Size 2-1/2"W x 3-3/4"L x 2-15/16"H.
Weight approximately 1-1/2 lbs. (3 switch unit.)

- The ultimate in compactness and light weight, originally designed for aircraft applications but equally suited for marine and commercial use.
- Long life and durability assured with quality timing motor drives, self-lubricating cams and precision switches.
- Single and multiple switches, wired or unwired, with or without housing.
- Possible combination of cams and switches permit modification to suit the specific requirements of the individual application.

Write for your copy of our new complete catalog.

PREFERRED WHERE PERFORMANCE IS PARAMOUNT

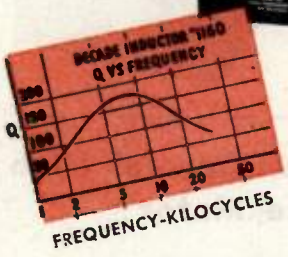
The **A. W. HAYDON COMPANY**

WATERBURY 32, CONNECTICUT

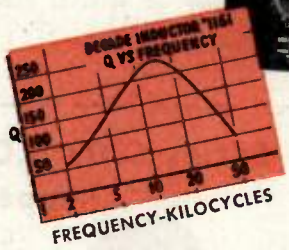
Design and Manufacture of Electrical Timing Devices

NEW ADDITIONS TO THE FREED *Quality* LINE of PRECISION LABORATORY EQUIPMENT

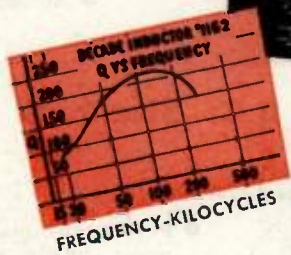
No. 1160
10 x 1 HY steps
10 x .1 HY steps
10 x .01 HY steps
500-15,000 cycles



No. 1161
10 x .1 HY steps
10 x .01 HY steps
10 x .001 HY steps
2000-50,000 cycles



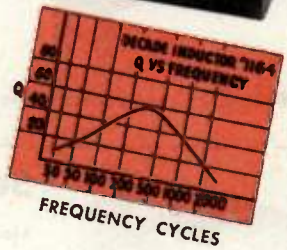
No. 1162
10 x .01 HY steps
10 x .001 HY steps
10 x .0001 HY steps
10,000-300,000 cycles



FREED *Decade Inductors*

Primarily designed for use in wave filters, tuned circuits and equalizers for audio and supersonic frequencies. The stability, accuracy and high value of Q make these Decade Inductors invaluable laboratory instruments.

No. 1164
10 x 10 HY steps
10 x 1 HY steps
10 x .1 HY steps
50-1000 cycles



Toroidal Inductors

High quality toroidal coils wound on molybdenum permalloy dust cores. All those listed below can be supplied in hermetically sealed cans, commercial type construction or open units. Other types can be supplied out of stock on special orders.

Type T1
1000-15,000 cycles

Inductance Value	Type #
5 MHY	F-800T
10 MHY	F-801T
15 MHY	F-802T
30 MHY	F-803T
50 MHY	F-804T
75 MHY	F-805T
100 MHY	F-806T
200 MHY	F-808T
500 MHY	F-809T
750 MHY	F-810T
1 HY	F-811T
1.5 HY	F-813T
2 HY	F-815T
3 HY	F-819T
4 HY	F-821T
5 HY	F-823T

Type T1-2
2000-30,000 cycles

Inductance Value	Type #
1 MH	F-1800
2 MH	F-1801
3 MH	F-1802
4 MH	F-1803
5 MH	F-1804
10 MH	F-1805
15 MH	F-1806
30 MH	F-1807
50 MH	F-1808
75 MH	F-1809
100 MH	F-1810
150 MH	F-1811
200 MH	F-1812
300 MH	F-1813
400 MH	F-1814
500 MH	F-1815

Type T1-3
10,000-300,000 cycles

Inductance Value	Type #
5 MH	F-1850
1 MH	F-1851
2 MH	F-1852
3 MH	F-1853
4 MH	F-1854
5 MH	F-1855
10 MH	F-1856
15 MH	F-1857
20 MH	F-1858
30 MH	F-1859
40 MH	F-1860
50 MH	F-1861
75 MH	F-1862
100 MH	F-1863

FREED TRANSFORMER COMPANY
72 SPRING ST.
NEW YORK N.Y.

FREED TRANSFORMER CO. F

Franklin

SOCKETS • SWITCHES • CONNECTORS • COMPONENTS FOR RADIO AND ELECTRONIC EQUIPMENT

Franklin's line of sockets, switches, connectors and components for radio, battery and electronic equipment, are the development of almost three decades first hand experience in supplying the radio industry with its requirements of this type of materials.

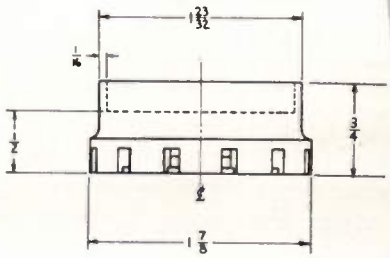
A great many items in Franklin's complete line of electronic sockets and components are exclusive and patented . . . developed to keep apace the technological improvements of radio and electronic design.

Franklin engineers welcome the opportunity to develop a socket or component to meet any new requirement connected with radio or electronic devices.

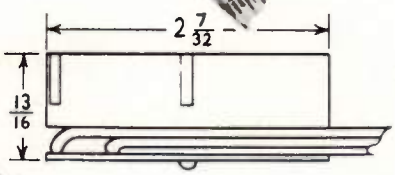
FRANKLIN TELEVISION SOCKETS

DUODECAL #40 adds only ½ inch to tube length, phenolic molded construction with radial leads and hand-grip shape.

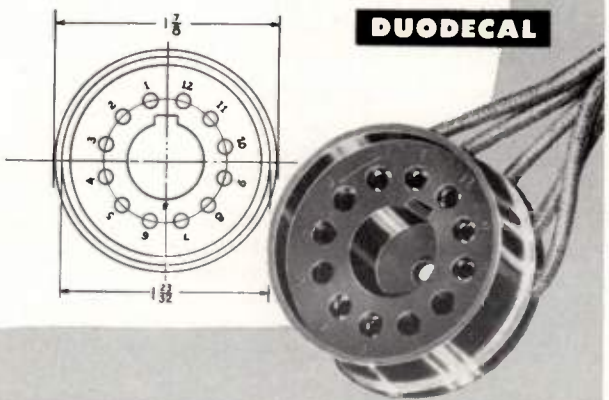
DIHEPTAL #40-23 of highest grade molded phenolic construction with radial or straight leads, available with or without mounting ring.



DIHEPTAL



DUODECAL

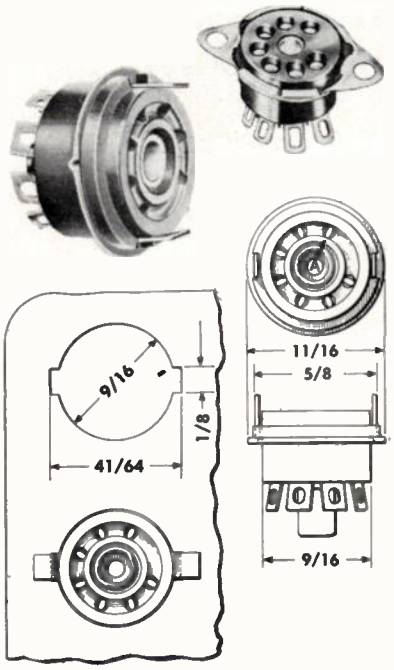


A. W. FRANKLIN MFG. CORP., 43-20 34th Street, Long Island City, N. Y.

Franklin

SOCKETS · SWITCHES · CONNECTORS

SERIES 55 MINIATURE MOLDED SOCKETS



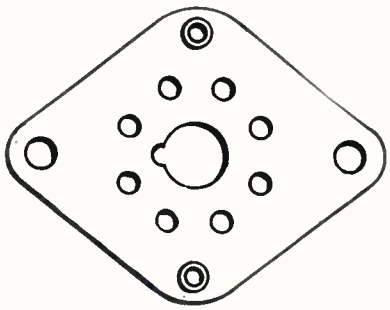
molded of general purpose black or low loss mica filled phenolic and available with either ⅞" mounting center saddle; ring for clamp type mounting; or without saddle or clamp for chassis clamp-in mounting.

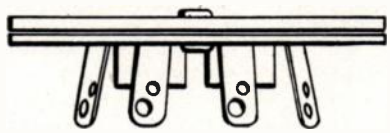
SERIES 150 WAFER SWITCHES

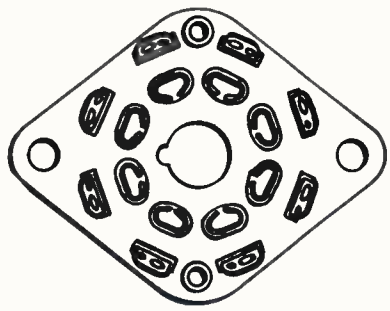
for use on AC-DC battery combination radio receivers. Shown is the plug inserted into switch acting as a single pole double throw switch on one section and single pole single throw on the other section. These switches are available for use in any circuit layout.

SERIES 39M WAFER SOCKETS

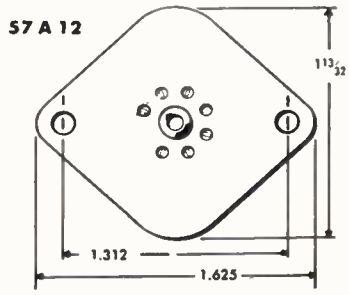
laminated wafers, punched on precision tools and available in either X, XX or XXX for high voltage breakdown and high leakage resistance. Their contacts are patented, full floating, self-aligning bow action of special temper brass, phospher bronze or beryllium copper; cadmium or silver plated. Low electrical contact resistance, straight line wiping surfaces, uniform insertion and high extraction pressure are inherent qualities of these contacts. Standard mounting centers are 1-5/16 or 1-1/2 inches, .140 holes.

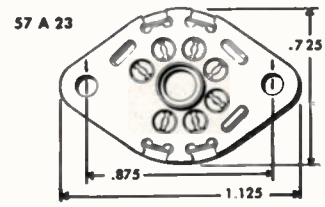


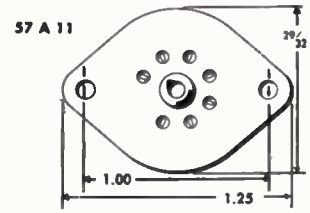




SERIES 57 MINIATURE WAFER SOCKETS







Favorite with engineers because these sockets have a positive constant contact; with production departments because they are easy to solder and don't require locking devices and with purchasing departments for their low price.

57 A 12 is interchangeable with Octal sockets enabling chassis design for either. *57* A 23 is for use where space saving is the dominant factor, available with or without a ground strap.

57 A 11 is for use where space saving is important but not a limiting factor, available with or without a ground strap.

A. W. FRANKLIN MFG. CORP., 43-20 34th Street, Long Island City, N. Y.

COMPONENTS FOR RADIO AND ELECTRONIC EQUIPMENT

SERIES 60 MOLDED OCTAL TUBE SOCKETS

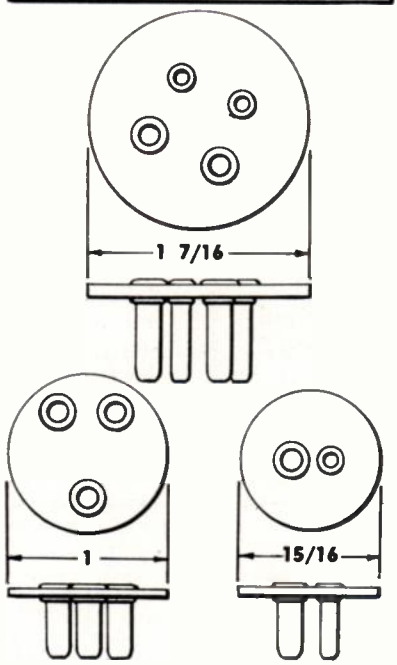
available in either black general purpose or low loss mica filled phenolic; contacts are either brass, beryllium or phospher bronze; plated to your requirement.

60 A 4 —1-11/16"—low loss mica body
60 A 5 —1-1/2" —black phenolic body
60 A 7 —1-1/2" —low loss mica tapped 6/32 thread
60 A 9 —1-5/16" —low loss mica body
60 A 10—1-5/16" —black phenolic body
60 A 12—1-5/16" —low loss mica elastic nuts 4/40 thread
60 A 13—1-1/2" —low loss mica body

BATTERY CONNECTORS FOR PORTABLE RECEIVERS

Series 28 for "A" Batteries
Series 25 for "B" Batteries

SERIES 28A CONNECTOR PLUGS



three types are shown, however we are tooled up to supply any required design, type and size connector plug.

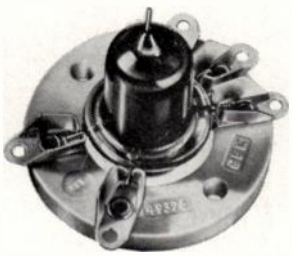
SERIES 46A SCREW TERMINAL BOARDS

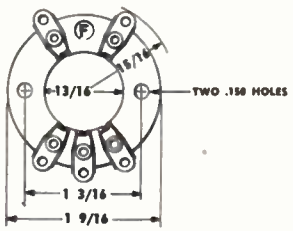
made in all sizes and shapes.

SERIES 40A MOLDED BATTERY STRIPS

available in all sizes from one to fourteen sections with an additional section on each end for mounting purposes.

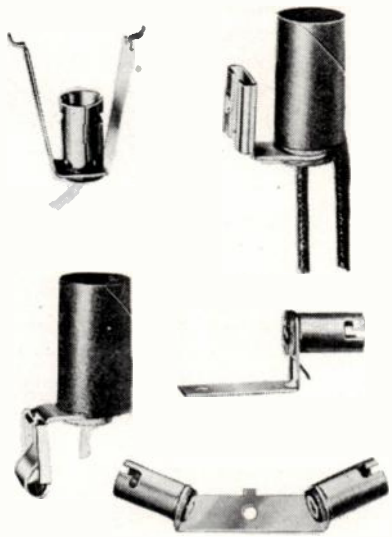
ULTRA HIGH FREQUENCY ACORN TUBE SOCKETS





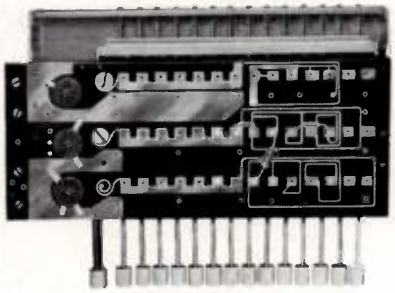
Franklin Acorn tube sockets meet Army and Navy specifications. They are fabricated of the best known materials for minimum electrical losses at ultra high frequencies.

DIAL LIGHT ASSEMBLIES



REPRESENTATIVES: H. LASURE, 2216 WEST 11th STREET, LOS ANGELES, CALIFORNIA • HENRY SARKIS, CHICAGO, ILLINOIS • W. FRANKLIN, 12 GROVER STREET, EAST SYRACUSE, N. Y. • HARRY GERBER, 739 BOYLSTON STREET, BOSTON, MASS. • D. M. HILLIARD, PHILADELPHIA • D. L. HARRIS, ATLAS RADIO CORP., LTD., 560 KING STREET WEST, TORONTO 1, CANADA

FRANKLIN AIRLOOP CORP. *manufacturers of*
AIRLOOPS and DIE-STAMPED CIRCUITS for radio . . . electronics . . . communications

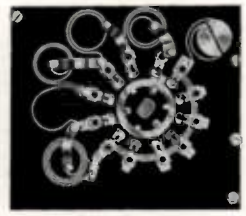


FRANKLIN TELEVISION PUSH-BUTTON STATION SELECTOR

a complete front end including RF, converter and oscillator. The wiring, inductances and ground circuits for all 12 channels are die stamped.

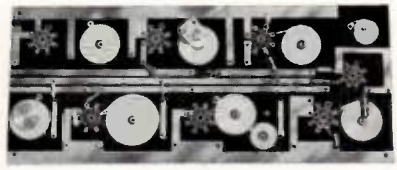
PRICE . . . PERFORMANCE . . . STABILITY . . . NOTHING ELSE LIKE IT!

FRANKLIN ROTARY TELEVISION STATION SELECTOR



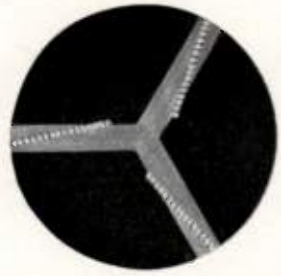
illustrated is one of the wafers in Franklin's new Rotary Television Station Selectors. All inductances and ground tuned circuits are stamped in one operation. Great economies are effected by the elimination of individually wound wire coils. Its performance and stability are same as push-button model, price is lower.

FRANKLIN SOUND AND VIDEO PANEL

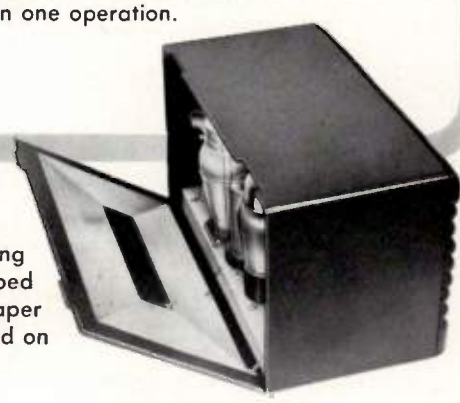


the Franklin Stamped Wiring Technique is the one bright spot for reducing costs of television receivers. The television sound and video I. F. panel, illustrated, embodies the stamping method used to produce stamped circuits, inductances, high frequency coils, tuned circuits, ground connections, tube sockets and connections for components. Exceptional performance and price savings are effected by the Franklin stamping technique.

FRANKLIN STAMPED WIRE CABLE



illustrating a phase of the Franklin Stamped Wiring Technique as applied to cable wiring for switchboard, communication panels, dash boards for automobiles, airplanes and communication panels aboard ships. Complete wiring circuits can be stamped in one operation.



FRANKLIN AIRLOOPS

standard equipment (cabinet back and loop antenna) with leading radio receiver manufacturers, Franklin Airloops can now be stamped on specially treated paper for inside portable receivers; these paper Airloops are exceedingly low priced. Airloops can also be stamped on the inside of polystyrene cabinet covers.

This new Franklin Method of Stamped Wiring is covered by patents issued and numerous patents pending. It should prove invaluable to the defense program and industry as it has many new applications. Its chief advantages lie in the fact that the method permits low cost production, light weight, uniformity, miniaturization and performance to design and specification.

The Stamped Wiring Technique Uses Flat Sheets of Copper Die-Stamped with Special Tools.

FRANKLIN AIRLOOP CORP. • 43-20 34th ST., LONG ISLAND CITY 1, N. Y.

WRH

two *Brilliant* new stars in the microphone world

Turner Cardioid MODEL 77

Impressively styled . . . brilliantly engineered with a combination two-element interior structure of improved design. Sound is effectively controlled to produce the true Super-Cardioid pickup pattern which reduces feedback to the minimum. The Model 77 features a wide-range pickup at the front and a sharply attenuated ouput at the rear . . . with *approximately 15 db discrimination between front and rear at all frequencies.* Response: ± 5 db from 70 to 10,000 c.p.s. Level: 62 db below 1 volt/dyne/sq.cm. at high impedance. Built-in switch giving 50, 200, 500 ohms, or high impedance output permits use with any standard equipment. Smooth, tilting action and quick-disconnect plug. Standard ⅝"—27 mounting. Finished in gun-metal gray and chrome. Recommended for recording studios, commercial broadcasting, and high quality public address systems.

Send for literature

Turner Velocity MODEL 87

An outstanding new microphone, developed to bring world famous Turner *dependability* to the velocity microphone field. Exceptional quality and trouble-free operation. Engineered with single element ribbon supported in high quality Alnico V magnet for maximum sensitivity. Well shielded output transformers exclude hum pickup. Bi-directional pickup pattern with smooth response within ± 5 db from 80 to 10,000 c.p.s. for most exacting studio work. Level: 62 db below 1 volt/dyne/sq.cm. at high impedance. 4-position output switch permits use with any 50, 200, 500 ohm, or high impedance input. Equipped with Universal swivel mounting, ⅝"—27 thread. Richly finished in gun-metal gray with polished chromium screen. Attached 20 ft. balanced line shielded cable. Recommended for broadcast and recording studios where highest quality performance is required.

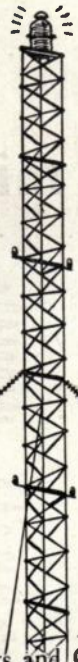
Write for Complete Details

THE TURNER COMPANY
909 17th Street N. E., Cedar Rapids, Iowa

LICENSED UNDER U. S. PATENTS OF THE AMERICAN TELEPHONE AND TELEGRAPH COMPANY, AND WESTERN ELECTRIC COMPANY, INCORPORATED

Microphones BY TURNER

KFI's NEW 50,000 WATT VERTICAL ANTENNA
750' high, tallest on the West Coast. Erected by IDECO, this tower is equipped with "Guardian" Tower and Obstruction Lights.

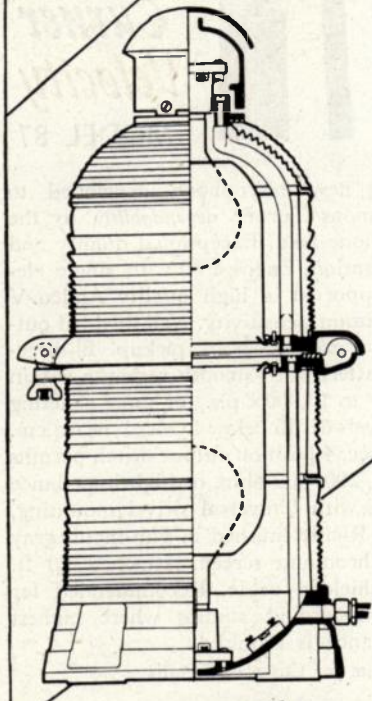


LOWER Maintenance Costs!

WITH H & P Guardian TOWER LIGHTS

"Guardian" 300 mm Tower Lights, Obstruction Lights and Code Flashers, furnished as standard equipment by leading tower manufacturers, are consistently specified by outstanding radio engineers because of dependable performance under every operating condition..

"Guardians" *INCREASE* Safety Factor
***PROLONG* Lamp Life . . . *LOWER* Maintenance Costs!**



Patented Ventilator Dome circulates the air—reduces internal temperature—increases lamp life. Water cannot enter vents even during most severe rainstorm.

Concave Base with drainage port at lowest point dissipates condensation moisture, prevents short-circuits.

Spun-Glass Shielding on color-screen supports provides glass-to-glass contact with color screens, equalizing contraction and expansion due to temperature changes. Color-screen breakage virtually eliminated.

Recessed Neoprene Gasket and completely concealed center hinge provides **positive protection** against dirt and moisture at this most vulnerable point. Neoprene gaskets used throughout in place of cork. Compounded to last indefinitely.

Improved Locking Device with butterfly clamp maintains secure center seal.

"Guardian" complete lighting kits can be furnished for conduit installation subject to availability, or exposed wiring installations in any quantity.

FOR COMPLETE INFORMATION AND NAME OF NEAREST DEALER WRITE TO

SOLD ONLY THROUGH JOBBERS and TOWER MANUFACTURERS

HUGHEY & PHILLIPS
326 NORTH LA CIENEGA BLVD.
LOS ANGELES 36, CALIFORNIA

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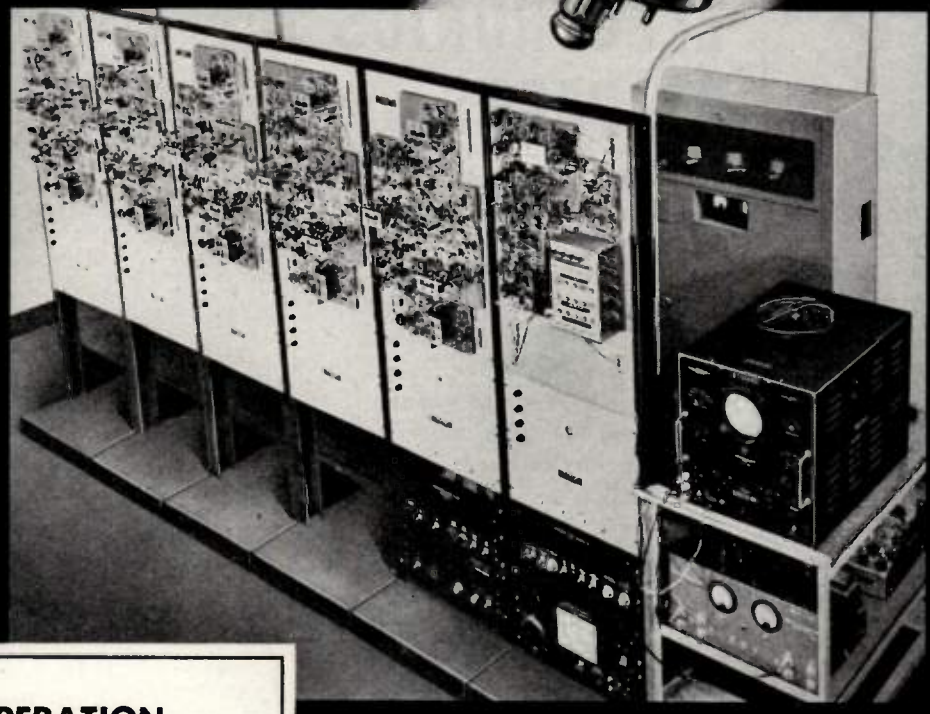
SEE PRODUCT INDEX PAGE 1A

NEW!

–SYLVANIA TYPE 7AK7–

Lock-In Tube designed and rated for use with an ADDITIONAL CONTROL VOLTAGE ON SUPPRESSOR GRID!



View of an experimental multiplier at the Massachusetts Institute of Technology. It incorporates the new Sylvania 7AK7 as a "gate" tube and is being used to test circuits for a large-scale system which will make possible the high-speed solution of complex mathematical problems. Sylvania engineers are working hand in hand with M.I.T. in this research development.

TYPICAL OPERATION

Heater Voltage	6.3 Volts
Heater Current	0.8 Amp.
Plate Voltage	150 Volts
Screen Voltage	90 Volts
Control Grid Voltage	0 Volts
Suppressor Grid Voltage	0 Volts
Transconductance	6500 μmhos
Plate Resistance (approx.)	11,500 Ohms
Plate Current	40 Ma.
Plate Current at E_{c1} = –11V.	2.0 Ma. Max.
Plate Current at E_{c3} = –9½V.	2.0 Ma. Max.
Screen Current	21 Ma.

Designed to answer the general need for a video amplifier tube having dual control characteristics, Sylvania's new 7AK7 Lock-In Tube is a sharp cut-off amplifier pentode rated for use with an additional control voltage on the suppressor grid.

An extremely important application for the tube is in the M.I.T. electronic computer illustrated above. Because of the tube's unique double control, it will prove equally valuable in hundreds of other circuits. Inquiries are invited. Address Sylvania Electric Products Inc., Radio Tube Division, Emporium, Pennsylvania.

SYLVANIA ELECTRIC

MAKERS OF RADIO TUBES; CATHODE RAY TUBES; ELECTRONIC DEVICES; FLUORESCENT LAMPS, FIXTURES, WIRING DEVICES; ELECTRIC LIGHT BULBS

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SEE PRODUCT INDEX PAGE IA

R. F. COMPONENTS & CONNECTORS

A Complete Series of Connectors
for
R. F. Transmission Lines

PRECISION PANEL CONNECTORS
Mobile Antennas
Write for Catalog #3

INDUSTRIAL PRODUCTS COMPANY

Danbury, Connecticut

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Industrial Teleceivers

For Public Viewing in

TAVERNS
HOTELS
HOSPITALS
SCHOOLS
INSTITUTIONS
CLUBS

Featuring—

SIMPLIFIED
CENTRAL CONTROL

with any number of viewing screens

INDUSTRIAL TELEVISION, INC.

359 LEXINGTON AVE., CLIFTON, N. J. • GREGORY 3-0900

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The Johnston Tin Foil & Metal Co., 6016 S. Broadway, St. Louis 11, Mo.—37
Cary B. Jones Associates, P.O. Box 1059, Palo Alto, Calif.—93
Howard B. Jones Div. Cinch Mfg. Corp., 2460 W. George St., Chicago 18, Ill.—15, 25, 27, 31, 47; 51, 62
Jones & Laughlin Steel Corp., 40 Longworth St., Pittsburgh 7, Pa.—37
M. C. Jones Electronics Co., 96 N. Main St., Bristol, Conn.—38
Joy Manufacturing Co., Oliver Bldg., Pittsburgh 22, Pa.—53

KLA Laboratories, Inc., 540 E. Larned St., Detroit 26, Mich.—94
KV Transformer Corp., 1697 1st Ave., New York 28, N.Y.—14, 66
Kaar Engineering Co., 619 Emerson St., Palo Alto, Calif.—96, 1, 3, 11, 18, 39, 52, 55, 67
Kaelber & Mack, 1270 Broadway, New York 1, N.Y.—94
Kahle Enginering Co., 1307 7th St., North Bergen, N.J.—93, 96, 7, 14, 28, 35, 53
Kaines & Co., 763 Lexington St., Chicago 7, Ill.—27
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Kamer Electronic Corp., 305 Broadway, New York 7, N.Y.—2
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Roberto Karman, O'Reilly, 519 P.O. Box 647 Habana, Cuba—93, 94
Karp Metal Prod. Co., Inc., 129 30th St., Brooklyn 32, N.Y.—13
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BASIC LABORATORY INSTRUMENTS BY KAY

WIDE RANGE SWEEPING OSCILLATOR

The MEGA-SWEEP

Displays Pass Band

Continuous frequency coverage up through the color television bands. Fixed and variable sweep amplitude. High and low level output.
Shows at a glance the response of any network or amplifier. Valuable for television production alignment.

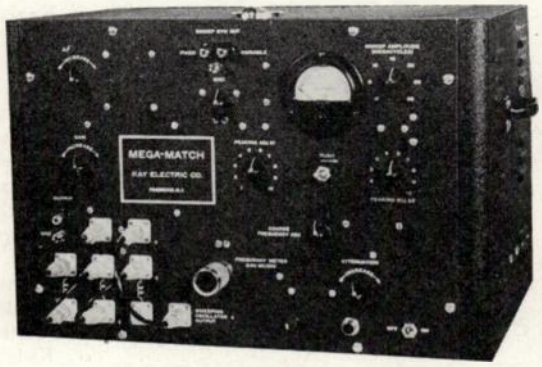
USES:

Testing Television Systems and Components.
Testing Radar System and Components.
Instructional Purposes in Schools and Universities.
Designing Filter Networks.
Production Testing of F.M. and Television Equipments.
As a Signal Source of Extraordinary Range (Unmatched by any existing commercial signal generator).
As a cw high frequency oscillator.
Self-contained, Regulated, Power Supply—117 Volt 60 Cycle. Operation—Size 9" × 17" × 11"—Weight 35 Pounds.
Price $395 F.O.B. Factory

The MEGA-MATCH

MEASURES REFLECTED ENERGY

Gives Visual Display



FEATURES:

- 10 to 250 MC and up. Complete television and FM coverage.
- Completely electronic. No Slotted lines, moving parts, bridges, or other frequency sensitive devices such as directional couplers.
- Precision frequency meter
- Saves engineering time—Visual display presents instantly data which would take hours to tabulate
- Can be adapted for balanced lines.

COMPLETELY ELECTRONIC

Presents a visual display of Reflected energy over any band up to 30 MC. By its use it is possible to instantly observe and measure mismatches, check transmission lines, antennas, input and output impedances of amplifiers, converters, transformers, etc.

Price: $695 F.O.B. factory

The MEGA-MARKER Sr.

The only 13-*Channel Crystal Controlled* Marker Oscillator

For Rapid and Accurate Alignment of Television Receivers

FEATURES:

- **CRYSTAL ACCURACY 0.01%**
- **SINGLE DIAL OPERATION**
- **PROVIDES SOUND CARRIER FREQUENCIES**

The MEGA-MARKER SR. Provides a precise source of frequencies throughout the television spectrum for all thirteen television channels.
MEGA MARKER SR. can also be used alone for the alignment of the local oscillator for all thirteen channels.
The single-dial control gives a rapid and efficient means of frequency selection.
The MEGA-MARKER, SR. facilitates the alignment of the r.f. channels in the same manner that the MEGA-PIPPER AND MEGA MARKER facilitate the i.f. alignment.
MISC: 117 vole 60 cycle Size 8 × 16 × 8
Weight 15 pounds Price $195.00
F.O.B. Factory

The MEGA-MARKER For TELEVISION I.F. BAND

Precision variable marker oscillator having a range of 19 to 29 megacycles for the television i.f. band.
Crystal oscillator for the FM i.f. band (10.7 mc.)
A large easily read dial provides over 12 inches of calibrated scale length. Thus it may be read to accuracies of 0.02 megacycles.
Included in the MEGA MARKER IS a crystal oscillator which provides accurate check points.
THE MEGA-MARKER is a valuable accessory for fm and television applications of the MEGA-SWEEP and MEGA-MATCH.
For absolute stability the regulated power supply of the MEGA-SWEEP or the MEGA-MATCH is used.

Weight 5 lbs. size 7 × 10 × 6
Price $60.00 F.O.B. Factory

THE MEGA-PIPPER

The MEGA-PIPPER is a new production and service alignment instrument. By the use of this unit in conjunction with the MEGA-SWEEP or MEGA-MATCH it is possible to quickly and accurately align television receivers.

THE MEGA-PIPPER gives four precise crystal controlled pips. These pips establish the picture sound carrier, and also the adjacent channel points. Thus the MEGA-PIPPER is an instrument which will save many hours of time spent in alignment.

Inasmuch as the pips are fed directly into an oscilloscope the pips are visible at all times, even in the traps where the highest precision is desired.
Self contained power supply.
Weight 15 lbs. Size 6 × 16 × 8 Price $150 F.O.B. Factory

THE MEGA-PULSER

Recently developed instrument for generating ultra-short pulses. Its pulse characteristic (shortest pulse) is 0.05 Micro-seconds in length with a flat top of 0.03 micro-seconds duration. Impedance level 50 ohms.
Pulse Amplitude is 100 volts.
Price $195.00 F.O.B. Factory

KAY ELECTRIC CO., 25 Maple Ave., Pine Brook, N.J., *Tel: CALdwell 6-3710*

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Keithley Instruments, 1508 Crawford Rd., Cleveland 6, Ohio—2, 5, 65
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Kellogg Switchboard & Supply Co., 6650 S. Cicero Ave., Chicago 38, Ill.—59
Kelnor Manufacturing Corp., 215 Kearney St., San Francisco 3, Calif.—35
Kelvin Electronics, 74 Cortlandt St., New York 7, N.Y.—94
Kelvin Laboratorio Radioelectrico Centenero, 1494-96, Buenos Aires, Argentina—93, 2, 3, 9, 14, 17, 20, 23, 24, 28, 36, 38, 45, 46, 52, 55, 59, 65, 66, 67, 68, 70, 71
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Kimble Elec. Div., Miehle Print Press, Box 545, Burlington, Iowa—41
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King Laboratories, Inc., 127 Solar St., Syracuse 4, N.Y.—27, 37
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Melvin P. Klein, 4234 Cabrillo St., San Francisco 21, Calif.—93
Richard C. Kleinberger, 1 E. Post Rd., White Plains, N.Y.—93
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Kluge Electronics Co., 1913 Montrose St., Los Angeles 26, Calif.—92, 96, 1, 2, 24, 28, 57, 67, 69
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Kolton Electric Mfg. Co., 123 N.J. Railroad Ave., Newark, N.J.—25, 27, 47
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Kraeuter & Co., Inc., 585 18th Ave., Newark 3, N.J.—35
William Kratt Co., 988 Johnson Pl., Union, N.J.—96
Kuhn & Jacob Molding & Tool Co., 1200 Southard St., Trenton, N.J.—43
Kullman Manufacturing Co., 4307 Winona Ct., Denver 12, Colo.—27
Kurtz Kasch, Inc., 1421 S. Broadway, Dayton 1, Ohio—96, 27, 43, 50
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Kwikheat Mfg. Co., 3732 San Fernando, Glendale 4, Calif.—35
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L&S Appliance Service, 220 W. Market St., Scranton, Pa.—94, 96
Mr. Philip M. LaHue, 3215 E. 34th Ave., Denver 5, Colo.—3
LaMagna Mfg. Co., 51 Clinton Pl., East Rutherford, N.J.—3, 13, 17, 20, 27, 35, 43, 49, 55, 62
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Lambros Precious Metals Corp., 64 Fulton St., New York 7, N.Y.—37
Lamicoid Fabricators, Inc., 4545 W. Cortlandt St., Chicago 39, Ill.—30, 43
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Langevin Manufacturing Corp., 460 W. 34th St., New York 1, N.Y.—96, 2, 66
Lansky Die Cutting Co., 192 Greene St., New York 12, N.Y.—30, 47
Lapp Insulator Co., 31 Gilbert St., Leroy, N.Y.—4, 10, 12, 15, 68
Lastik Products Co., 1106 Keinan Bldg., Pittsburgh 22, Pa.—33
Laurehk Radio Mfg. Co., 3918 Monroe Ave., Wayne, Mich.—94

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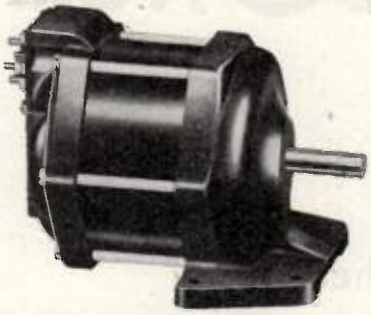
For precise, positive linkage between instrumentation and control

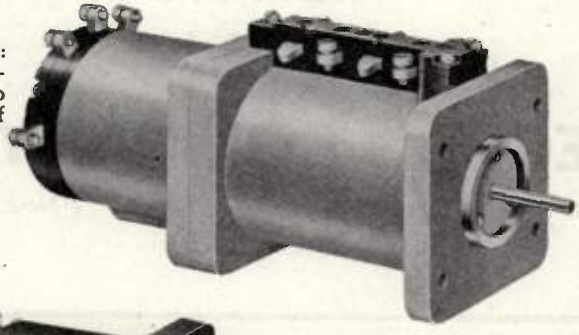
INDUCTION GENERATOR: when fed from AC source produces voltage proportional to speed of rotation. Used in circuits as velocity control component.



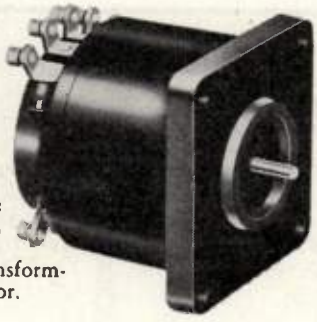
PERMANENT MAGNET GENERATOR: designed as AC potential source. Produces sinusoidal wave form with harmonic content under 2%.

INDUCTION GENERATOR: type designed particularly for use where low residual voltage is required.

MOTOR DRIVEN INDUCTION GENERATOR: powered by 2-phase, low-inertia induction motor. Used as fast reversing servo motor where maximum stall torques of less than 7 oz. in. are required.



TELETORQUE UNIT — below left: a precision-built, non-motoring, self synchronous unit for remote indication. Accurate to ± 1 degree.



CIRCUTROL UNIT: Useful as a resolver, phase shifter, rotatable and control transformer or phase indicator.

INDUCTION MOTOR: Low inertia, two-phase squirrel cage unit for use as precision servo motor.

KOLLSMAN OFFERS A LINE OF SPECIAL PURPOSE AC UNITS

To meet the varying needs of the electronics engineer in linking instrumentation up to control, Kollsman offers a group of units with sufficiently varied functions to solve a wide range of control problems. In nearly every case, units are available for operation at various voltages and frequencies to fit widely diversified electronic control and remote indication applications. These Kollsman units are the outgrowth of long development in aircraft instrumentation and control and — more recently — Kollsman's considerable work in this field for naval and military applications. They are light in weight, compact, and highly precise, so that engineers working with exact quantities will find them reliable to a high degree. Complete data on any or all of these units may be had upon request. Kollsman Instrument Division, Square D Company, 80-08 45th Avenue, Elmhurst, N. Y.

KOLLSMAN AIRCRAFT INSTRUMENTS

PRODUCT OF

SQUARE D COMPANY

ELMHURST, NEW YORK GLENDALE, CALIFORNIA

RESISTORS

Allen-Bradley

and others

FROM STOCK

LEGRI S COMPANY, Inc.

130 West 102nd Street New York, N.Y.

Lehigh Towers

If you are planning to construct an AM, FM or Television station, or if you are looking for a better tower than you now have, look to **LEHIGH** for the best in tower construction.

LEHIGH's Leadership in the tower business is known nationwide. For dependable, durable towers, consult **LEHIGH.**

LEHIGH STRUCTURAL STEEL CO.

17 Battery Place
New York 4, N.Y.

6 Tower Array, WXKW, Albany, N.Y.

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Lavoie Laboratories, Matawan Freehold Rd., Morganville, N.J.—1, 2, 3, 23, 24, 38, 45, 46, 54, 55, 57, 60, 65, 67, 68
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Lawton Products Co., Inc., 624 Madison Ave., New York 22, N.Y.—93, 96

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Lear, Inc., 110 Ionia Ave. N.W., Grand Rapids 2, Mich.—1, 2, 8, 11, 20, 23, 39, 42, 46, 48, 55, 56, 57, 60, 65, 67

Lectradio Corp., 4-42 St. Francis St., Newark 4, N.J.—20, 55, 60, 67

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The Lectroloid Co., 145-03 Jamaica Ave., Jamaica 2, N.Y.—9, 73

Lectronic Research Labs., Howell & Hegeran Sts., Philadelphia 24, Pa.—93, 20, 24, 45, 46, 65

Lectrovision, Inc., 144 Union Ave., New Rochelle, N.Y.—69

Leece Neville Co., 5363 Hamilton Ave., Cleveland 14, Ohio—42

Leeds & Northrup Co., 4901 Stenton Ave., Philadelphia 44, Pa.—10, 20, 24, 26, 38, 45, 65

Leeds Radio Co., 75 Vesey St., New York 7, N.Y.—94

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LeValley Vitae Carbon Brush Co., Rombout Ave., Beacon, N.Y.—37

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Lepel High Frequency Labs., Inc., 39 W. 60th St., New York 23, N.Y.—28, 45, 65

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Les Laboratoires Radioelectriques, 6-12 Rue Grouselle, Paris 15, France—95, 1, 10, 12, 18, 24, 28, 38, 40, 45, 54, 55, 59, 67, 68, 69

Leuck Crystal Lab., 2931 T St., Lincoln, Neb.—18

Leupold & Stevens Instruments, 4445 N.E. Glisan, Portland 13, Ore.—60

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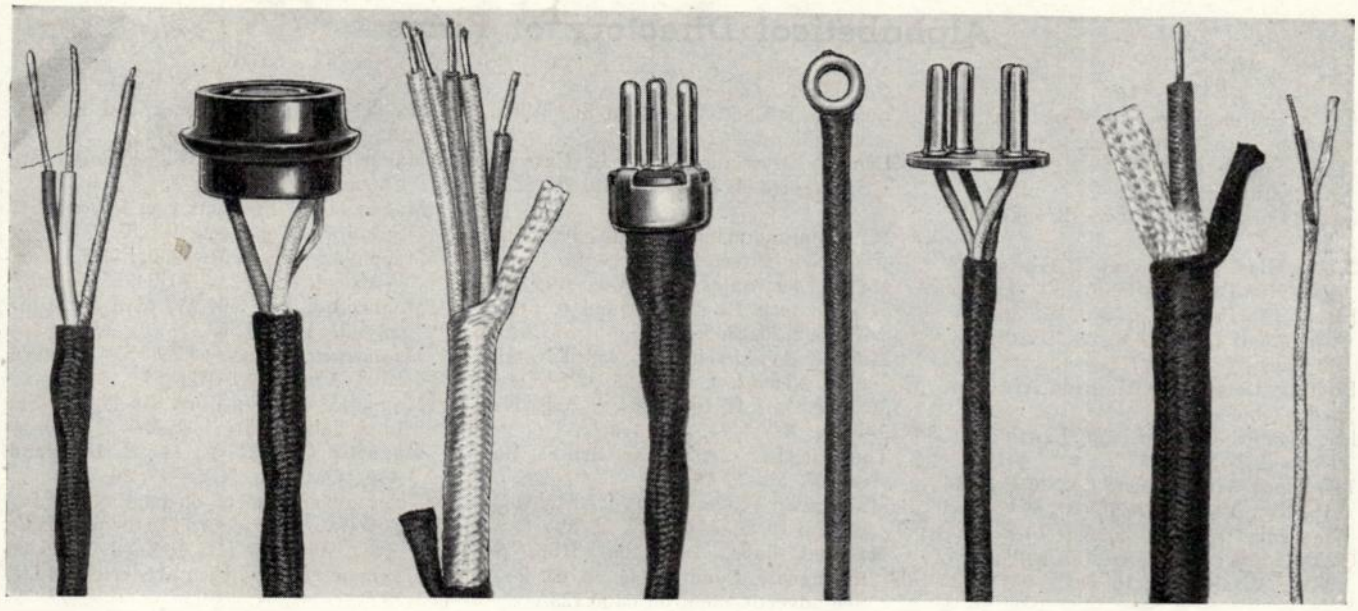


LENZ WIRES and CABLES

THE *lifeline* OF ELECTRONIC EQUIPMENT

When you list the qualities most desirable in a supplier of wires and cables for your electronic equipment, you will find that Lenz most nearly answers your description of a dependable source.

First, this company has the engineering background and experience, the knowledge of your requirements in wires and cables that are needed to help draft your specifications.

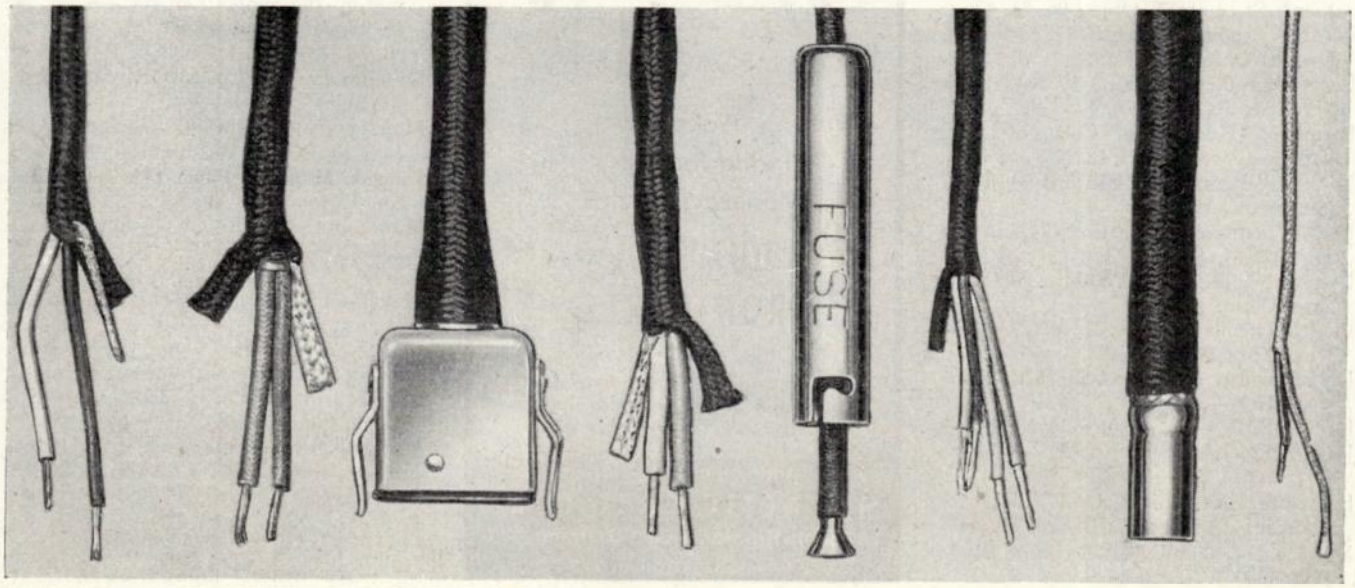
Second, it has the facilities to produce these wires and cables in volume exactly to specifications, economically and promptly.

Third, it is a reliable organization with over 40 years background of dependable service to the communications industry.

Make Lenz your principal source for wires and cables. A Lenz wire engineer will gladly consult with you regarding your special requirements. Correspondence is invited.

"IN BUSINESS SINCE 1904"

LENZ ELECTRIC MANUFACTURING CO. • **1751 No. Western Avenue, Chicago 47, Illinois**



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Libbey Glass Div., Owens Ill. Glass, P.O. Box 919, Toledo 1, Ohio—30
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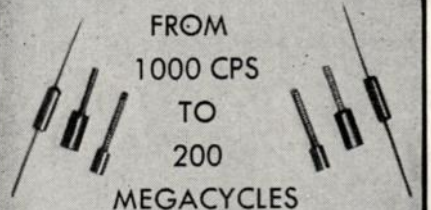
High Quality
MAGNETIC
IRON CORES



Pioneer and largest Manufacturers of
DUMBELL
IRON CORES

Let our engineers help design high quality coils to meet the days exacting requirements

Address all inquiries to
MAGNETIC CORE CORP.
142 South Highland Ave., Ossining, N.Y.
Telephone, Ossining 222

Maedel Publishing House, 593 E. 38th St., Brooklyn 3, N.Y.—91
Magazines, Inc., 188 W. Randolph St., Chicago 1, Ill.—91
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Management Training Associates, 3308 14th St. N.W., Washington, D.C.—93
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Marathon Battery Co., 840 Henrietta St., Wausau, Wis.—6
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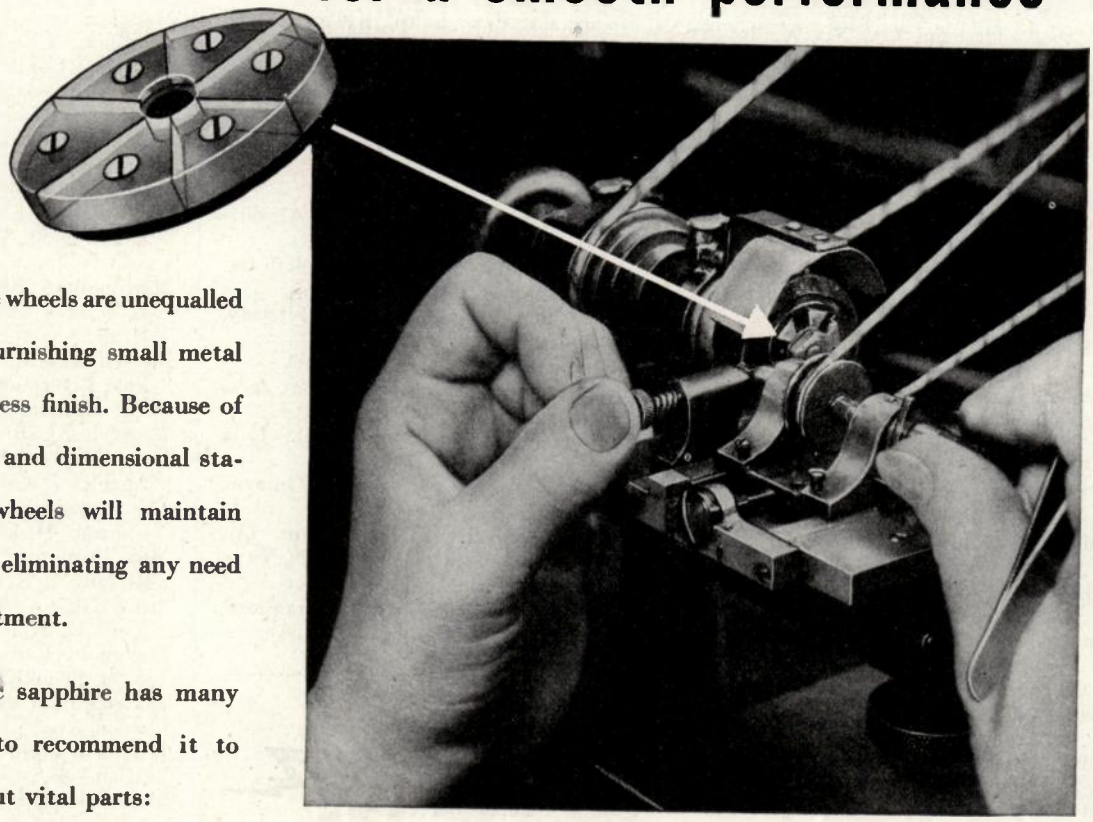
Synthetic Sapphire

for a smooth performance



Synthetic sapphire wheels are unequalled for grinding or burnishing small metal parts to a matchless finish. Because of superior hardness and dimensional stability, sapphire wheels will maintain exact wheel form, eliminating any need for machine adjustment.

LINDE synthetic sapphire has many other properties to recommend it to makers of small but vital parts:

Knoop Hardness	1,525 to 2,000
Chemical Resistance	All Acids
Compressive Strength, psi	300,000
Water Absorption	0.0
Dielectric Constant	7.5 to 10
Thermal Conductivity cal. sec.$^{-1}$ cm.$^{-1}$ deg. C.$^{-1}$ at 300 deg. C.	0.010

plus:

- Unicrystalline structure—offers no location for immediate wear.
- Superior wear resistance.
- Extremely low coefficient of friction.

Send for Booklet No. 3A—see how synthetic sapphire can help you with your problems.

Linde Synthetic Sapphire

when the small part is the important part

THE LINDE AIR PRODUCTS COMPANY

UNIT OF UNION CARBIDE AND CARBON CORPORATION

30 EAST 42nd STREET • NEW YORK 17 • N.Y. UCC OFFICES IN OTHER PRINCIPAL CITIES

IN CANADA: DOMINION OXYGEN COMPANY, LIMITED, TORONTO

The word "Linde" is a trade-mark of The Linde Air Products Company

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Masonite Corp., 111 W. Washington, Chicago 2, Ill.—30

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Master Electric Co., 126 Davis Ave., Dayton 3, Ohio—16, 41, 58

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Many new items including a NEW F-M Tuner Kit, Television R.F. power supply Transformer, miniature I.F. Transformers only ¾" square by 2" high.

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5917 S. Main St., Los Angeles, Calif.

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Merit Coil & Transformer Corp., 4427 N. Clark St., Chicago 40, Ill.—66

Merrick Television Co., 225-18 Merrick Rd., Laurelton, L.I., N.Y.—55

Merrill Eng. Labs., 1240 Lincoln St., Denver 3, Colo.—20

Metal Powder Products, Inc., 342 Xenia Ave., Dayton 10, Ohio—27, 35

Metal Textile Corp., 4 Central Ave., Orange, N.J.—37, 68

Metals & Controls Gen. Plate Div., 34 Forest St., Attleboro, Mass.—37

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Le B. Mettler Co., 406 S. Main St., Los Angeles, Calif.—20, 49

Leo J. Meyberg Co., 2027 S. Figuera, Los Angeles 7, Calif.—94

The Meyercord Co., 5323 W. Lake St., Chicago 44, Ill.—27

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Micamold Radio Corp., 1087 Flushing Ave., Brooklyn 6, N.Y.—10, 24, 61, 67

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Midwest Research Institute, 4049 Pennsylvania Ave., Kansas City, Mo.—93

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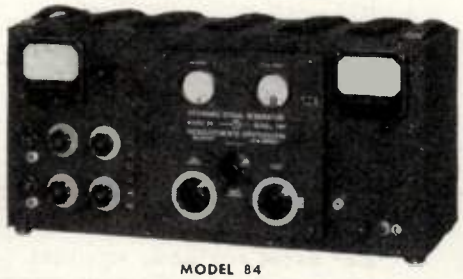
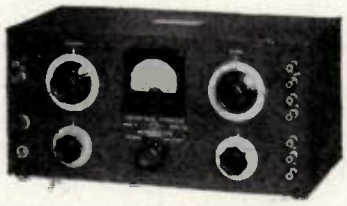
Laboratory Standards



MODEL 84
U.H.F. STANDARD SIGNAL GENERATOR
300 to 1000 megacycles, AM and Pulse Modulation

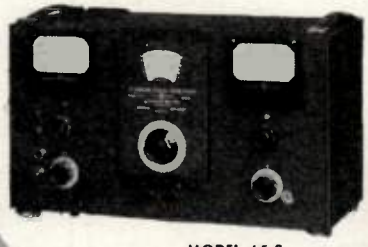
MODEL 78-FM STANDARD SIGNAL GENERATOR
86 to 108 megacycles. Output: 1 to 100,000 microvolts

MODEL 62
VACUUM TUBE VOLTMETER
0 to 100 volts AC, DC and RF

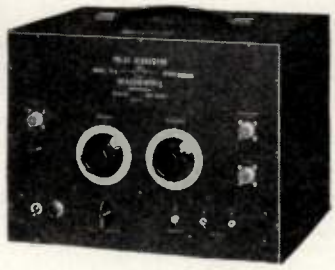


MODEL 71 SQUARE WAVE GENERATOR
5 to 100,000 cycles
Rise Rate 400 volts per microsecond

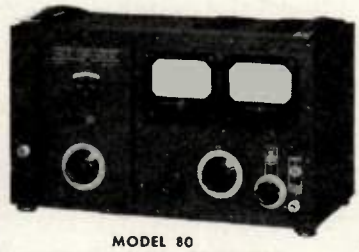
MODEL 58 U.H.F. RADIO NOISE
AND FIELD STRENGTH METER
15 to 150 megacycles



MODEL 65-B
STANDARD SIGNAL GENERATOR
75 to 30,000 kilocycles
M.O.P.A., 100% Modulation



MODEL 79-B PULSE GENERATOR
50 to 100,000 cycles
0.5 to 40 microsecond pulse width



MODEL 80
STANDARD SIGNAL GENERATOR
2 to 400 megacycles
AM and Pulse Modulation

Standards are only as reliable as the reputation of their maker.

MEASUREMENTS CORPORATION

BOONTON · NEW JERSEY

"Eveready" Radio Batteries will solve any receiver design problem!

For Pocket Radio Receivers: ½-ounce, 1.5-volt No. 915 "A" Battery (left) and 1⅓-ounce, 22½-volt No. 412 "B" Battery (right) comprise complete power complement.

For Home Radios: New No. 758 "A-B" Pack gives same voltages, same capacity, as older, larger No. 748 — permits smaller, lighter radios.

For Portable Receivers: "Eveready" "Mini-Max" No. 753 is our newest "A-B" portable battery pack. Delivers 90 volts plate; 7½-9 volts filament supply.

TYPES	VOLTAGE	LENGTH	WIDTH	HEIGHT	TERMINALS	SUGGESTED CURRENT RANGE	WEIGHT BATTERY
"A-B" PACKS FOR HOME RECEIVERS							
758	1.5 A	10 11/16"	4 3/16"	6 11/16"	Socket —, +1.5	A:200-300 m.a.	14 lb. 8 oz.
	90 B				Socket —, +90	B:7.0-12.0 m.a.	
"A-B" PACKS FOR PORTABLE RECEIVERS							
753	7.5 & 9 A	9 7/32"	2 23/32"	4 5/16"	Socket —, +7.5 & 9	A:50 m.a.	4 lb. 15 oz.
	90 B				Socket —, +90	B:5.0-15.0 m.a.	
754	7.5 & 9 A	10 15/32"	3¼"	4"	Socket —, +7.5 & 9	A:50 m.a.	6 lb. 8 oz.
	90 B				Socket —, +90	B:5.0-15.0 m.a.	
"A" BATTERIES FOR HOME RECEIVERS							
A-1300*	1.25	5 5/16"	4 11/32"	8 5/8"	Socket —, +1.25	100-600 m.a.	5 lb. 13½ oz.
#6 Dry Cell	1.5	2 5/8" D		6 5/8"	Screw —, +1.5	100-250 m.a.	2 lb. 2 oz.
"B" BATTERY FOR HOME RECEIVERS							
487	45	5 5/32"	2 3/32"	7¼"	Socket —, +22.5, +45	7.0-12.0 m.a.	4 lb. 4 oz.
"A" BATTERIES FOR PORTABLE RECEIVERS							
718	6	3 15/16"	2¾"	5½"	Socket —, +6	50 m.a.	2 lb. 13 oz.
741	1.5	3⅞"	2 1/16"	5 3/8"	Socket —, +1.5	100-350 m.a.	2 lb. 13 oz.
742	1.5	2 13/32"	2 13/32"	4"	Socket —, +1.5	100-250 m.a.	1 lb. 6 oz.
743	1.5	3 13/16"	2 21/32"	4 1/32"	Socket —, +1.5	100-300 m.a.	2 lb. 1 oz.
744	6	2 21/32"	2 21/32"	3 31/32"	Socket —, +6	50 m.a.	1 lb. 6 oz.
745	1.5	3⅞"	1 1/16"	10 23/32"	Socket —, +1.5	100-350 m.a.	2 lb. 13 oz.
746	4.5	3 15/16"	1 5/16"	4 21/32"	Socket —, +4.5	50 m.a.	1 lb. 4 oz.
747	6	3⅞"	1 7/16"	10 23/32"	Socket —, +6	50 m.a.	2 lb. 13 oz.
"B" BATTERY FOR PORTABLE RECEIVERS							
482	45	3 13/32"	1 27/32"	5½"	Socket —, +45	5.0-15.0 m.a.	1 lb. 14 oz.
"A" BATTERY FOR PERSONAL RECEIVERS							
950	1.5	1 21/64" D		2 27/64"	Flat Contact —, +1.5	25-250 m.a.	3⅓ oz.
"B" BATTERIES FOR PERSONAL RECEIVERS							
455	45	2⅝"	1"	3 11/16"	Snap Type —, +45	1.0-10.0 m.a.	8 oz.
467	67.5	2 13/16"	1⅜"	3 45/64"	Snap Type —, +67.5	1.0-10.0 m.a.	12 oz.
"A" BATTERIES FOR POCKET RECEIVERS							
915	1.5	35/64" D		1 31/32"	Flat Contact —, +1.5	25-100 m.a.	½ oz.
1016	1.5	1 9/64" D	13/32"	2 1/64"	Flat Contact —, +1.5	25-100 m.a.	1.1 oz.
"B" BATTERIES FOR POCKET RECEIVERS							
412	22.5	1 1/32"	⅝"	2"	Flat Contact —, +22.5	0.3-1.0 m.a.	1⅓ oz.
413	30	1 1/32"	⅝"	2 9/16"	Flat Contact —, +30	0.3-1.0 m.a.	1⅔ oz.
420	22.5	1 5/16"	31/32"	2 3/16"	Flat Contact —, +22.5	0.5-2.0 m.a.	2⅓ oz.
430	30	1 5/16"	1"	2 13/16"	Flat Contact —, +30	0.5-2.0 m.a.	3 oz.

*"Air-Cell" Battery

These Battery Engineering Bulletins are available on request: **1.** Batteries for postwar electronic equipment. **2.** "Mini-Max" "A-B" packs for 1.4 volt receivers. **3.** Batteries for vacuum tube hearing aids. **4.** High voltage batteries. **5.** Batteries for miniature radio receivers.

The registered trade-marks "Eveready," "Mini-Max," and "Air-Cell" distinguish products of National Carbon Company, Inc.

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TRADE-MARK

NATIONAL CARBON COMPANY, INC.
30 East 42nd Street, New York 17, N. Y.
Unit of Union Carbide and Carbon Corporation
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Alphabetical Directory of Firms

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New England Electronics Corp., Rear 78 Mt. Vernon St., Lynn, Mass.—93
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New England Screw Co., Keene, N.H. —27
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New Hampshire Ball Bearings, Inc., 5 Main St., Peterborough, N.H.—27
New Hampshire Mica & Mining Co., 635 Greenwich St., New York 14, N.Y.—30
New Hermes Engravers, 821 Broadway, New York 3, N.Y.—35
New Wrinkle, Inc., 137 N. Perry St., Dayton 2, Ohio—33
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New York Transformer Co., Inc., 3rd Ave., Alpha, N.J.—14, 20, 23, 66
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Newcomb Audio Products Co., 6824 Lexington Ave., Hollywood 38, Calif.—2, 13, 23
Newcomb Spring Corp., 3902 7th Ave., Brooklyn 32, N.Y.—27
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Niagara Radio Supply Corp., 160 Greenwich St., New York 6, N.Y.—94
A. C. Nielsen Co., 2101 Howard St., Chicago 45, Ill.—20
The Nielsen Television Corp., 11 E. 31st St., New York 16, N.Y.—55
Niemand Bros., Inc., 37-11 35th Ave., Long Island City 1, N.Y.—30
Nobell Manufacturing Co., Inc., 903 Merrick Rd., Bellmore, N.Y.—55
Noblitt Sparks Industries, Inc., 13th & Big Four R.R., Columbus, Ind.—55
Nonotuck Mfg. Co., Water St., Holyoke 1, Mass.—73
Nordendale Mfg. Co., 2114 Carroll Ave., Chicago 12, Ill.—17, 35
Norrman Labs., Williams Bay, Wis.—24
North American Philips Co., Inc., 100 E. 42nd St., New York 17, N.Y.—11, 17, 37, 44, 69, 73
Northeastern Engineering, Inc., Bedford St., Manchester, N.H.—1, 8, 11, 24, 45, 55
Northern Broadcasting Co., 25 King St. W., Toronto, Ontario, Can.—92, 97
Northern Communications Mfg. Co., 210 E. 40th St., New York 16, N.Y.—1, 3, 4, 68
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Nothelfer Winding Labs., 9 Albemarle Ave., Trenton 3, N.J.—14, 66
Nukem Products Corp., 111 Colgate Ave., Buffalo 20, N.Y.—33

O&S Laboratories, Inc., 6754 N. Clark St., Chicago 26, Ill.—27, 47, 61
OZ Electrical Mfg. Co., Inc., 262 Broad St., Brooklyn 2, N.Y.—27, 43
Oak Manufacturing Co., 1260 N. Clybourn Ave., Chicago, Ill.—11, 56, 64, 70
Oak Ridge Antenna Co., Inc., 717 2nd Ave., New York 16, N.Y.—3, 4
O'Connell Radio Laboratory, 424 W. Garfield St., Freeport, Ill.—96, 2
J. P. O'Donnell & Sons Inc., 316 Stuart St., Boston 16, Mass.—10
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Offner Electronics, Inc., 5320 N. Kedzie, Chicago 25, Ill.—20
The Ohio Carbon Co., 12508 Berea Rd., Cleveland 11, Ohio—61
The Ohio Electric Mfg. Co., 5900 Maurice Ave., Cleveland 4, Ohio—36, 41
Ohmite Mfg. Co., 4967 Flournoy St., Chicago 44, Ill.—3, 5, 14, 61, 64
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Olek & Sons, Inc., 4757-59 Melrose St., Philadelphia 37, Pa.—30
Otto K. Oleson, Co., 1560 N. Vine St., Hollywood 28, Calif.—94, 96
Oliver Iron & Steel Corp., S. 10th & Muriel Sts., Pittsburgh 3, Pa.—27
John O. Olsen Co., 1456 Waterbury Rd., Cleveland 7, Ohio—94
Olympic Radio & Television Inc., 34-01 38th Ave., Long Island City 1, N.Y.—2, 54, 55, 67
Olympic Tool & Mfg. Co., Inc., 39 Chambers St., New York 7, N.Y.—13
Omicron Electric, Inc., 718 Columbus Ave,. New York 25, N.Y.—96, 38, 45, 55, 65, 67
D. W. Onan & Sons, 43 Royalston Ave., Minneapolis 5, Minn.—16, 41
O'Neil Irwin Mfg. Co., Lake City, Minn.—35
Operadio Manufacturing Co., St. Charles, Ill.—2, 13, 14, 20, 23, 34, 47
Oregon Electronic Mfg. Co., 206 S.W. Washington St., Portland 4, Ore.—18, 52, 55, 67
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Paisley Products Inc., 1770 Canalport Ave., Chicago 16, Ill.—72
Palmer Electric & Mfg. Co., Wakefield, Mass.—59, 66
The Palnut Company, 94 Cordier St., Irvington 11, N.J.—27
Pan Electronics Company, 355 E. 149th St., New York 51, N.Y.—2
Pancro Mirrors Inc., 2958 Los Feliz Blvd., Los Angeles 26, Calif.—44
Panelyte Div. St. Regis Sales Corp., 230 Park Ave., New York 17, N.Y.—43
Panoramic Radio Corp., 92 Gold St., New York 7, N.Y.—1, 24, 40, 54, 65, 68
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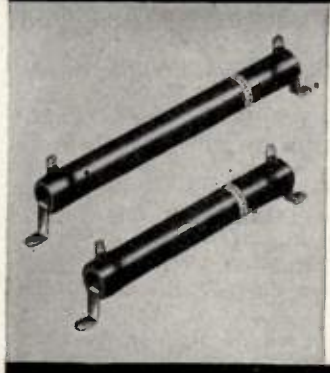
Be Right with.. OHMITE

Wire Wound Resistors



Ohmite offers a complete line of dependable resistors wound on a ceramic tube and protected by vitreous enamel. Ratings from 5 to 200 watts. Available in the fixed type for general use, and in the "Dividohm" type with adjustable lugs for use as a multi-tap resistor or voltage divider. Many standard types and mountings.

Composition Resistors and Potentiometer

"Little Devil" resistors are individually marked. In ½, 1, and 2-watt, ± 10% tol. Also ± 5% in ½, 1-w sizes. RMA values, 10 ohms to 22 megohms.

Type AB, 2-watt molded element potentiometer for industrial use. 50 ohms to 5 megohms in linear taper.

Both items sold only through Ohmite distributors.

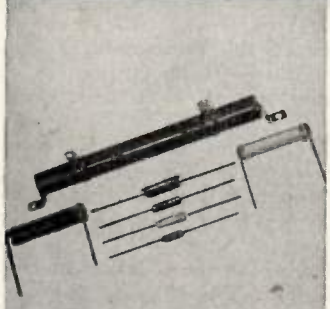
Vitreous Enameled Rheostats

Available in 10 sizes, ranging from 25 to 1000 watts, in a wide range of resistances. Ceramic parts insulate the shaft and mounting. The resistance winding is permanently locked in vitreous enamel. The metal-graphite brush provides unmatched smoothness of action. Engineered and constructed for long, trouble-free life.

Non-Inductive Resistors

Used as dummy antennas for radio transmitters, load resistors in high-frequency circuits, terminating resistors for radio antennas. Vitreous-enamel type wound on a tubular ceramic core. Also dummy antenna units consisting of several resistors arranged concentrically, connected in parallel. Sizes: 50 to 250 watts.

Radio Frequency Plate Chokes



To adequately cover higher radio frequencies now used by amateurs, police, and other communication facilities. Single-layer wound on low power factor steatite or molded plastic cores and covered with a moistureproof coating. Seven stock sizes from 3 to 520 megacycles. Two units rated 600 ma; all others 1000 ma.

All Ceramic Tap Switches

A popular switch for use with tapped transformers in power supply units. Compact, dependable, and convenient to operate. Available in ratings of 10, 15, 25, 50, and 100 amperes, A.C. Contacts are of the silver-to-silver, non-shorting type. Switch shaft is insulated by a strong ceramic hub. Ceramic body is unaffected by arcing.

OHMITE MANUFACTURING CO., 4967 Flournoy St., Chicago 44, U. S. A.

OHMITE

Write on Company Letterhead for Catalog and Engineering Manual No. 40.

Provides 96 pages of useful data on the selection and application of rheostats, resistors, tap switches, chokes, attenuators, and other equipment.

RHEOSTATS RESISTORS TAP SWITCHES CHOKES

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Peirce Wire Recorder Corp., 1328 Sherman Ave., Evanston, Ill.—57
Pemco Corp., 5601 Eastern Ave., Baltimore 24, Md.—30
Penn Fibre & Specialty Company, 2024 E. Westmoreland St., Philadelphia 34, Pa.—30
Penn Union Electric Corp., 315 State St., Erie, Pa.—4, 17, 27
Pennsylvania Testing Lab., Doylestown, Pa.—93, 96, 65, 68
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Permo, Inc., 6415 Ravenswood Ave., Chicago 26, Ill.—57
Permoflux Corporation, 4900 W. Grand Ave., Chicago 39, Ill.—34, 39, 48, 66
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Philson Mfg. Co., Inc., 156 Chambers St., New York 7, N.Y.—3
Phosphor Bronze Smelting Co., 2200 Washington Ave., Philadelphia 46, Pa.—27
Photo Reproducing Equipment, 15 Summit Ave., Chatham, N.J.—19
Photobell Co., 116 Nassau St., New York 7, N.Y.—93, 96, 20, 35
Photoswitch, Inc., 77 Broadway Cambridge 42, Mass.—20, 64
Photovolt Corp., 95 Madison Ave., New York 16, N.Y.—20
Photox Silk Screen Supply Co., 30 Irving Pl., New York 3, N.Y.—44
Photron Instrument Co., 5713 Euclid Ave., Cleveland 3, Ohio—20, 35
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Charles W. Pointon Co., 72 Queen St. W., Toronto, Ontario, Can.—94
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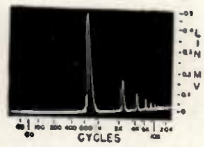
Model AP-1

PANORAMIC SONIC ANALYZER

VISUAL PRESENTATION OF SONIC SPECTRUM FOR SIMPLE, RAPID WAVE ANALYSIS

MODEL AP-1, a scanning heterodyne instrument, provides graphic indications of frequency distribution versus amplitude of components in complex waves. A 40-20,000 c.p.s. spectrum is scanned, once per second at a logarithmic rate, and the frequencies contained therein appear as vertical pips on a long persistence 5" cathode ray tube screen. This facilitates more rapid determination of waveform content under static and dynamic conditions. Ease of operation and simplicity of presentation make AP-1 invaluable for production line and laboratory usage.



Panoramic Sonic Spectrograph of 750 c.p.s. square wave

USE AP-1 FOR . . .

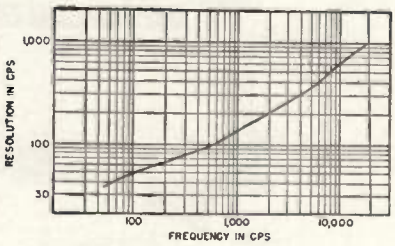
- Harmonic Analysis
- Intermodulation Measurements
- High Frequency Vibration Studies
- Noise Investigations
- Acoustic Studies
- Material Testing

FEATURES

- Panoramic graphic presentation of frequency versus voltage
- Continuous scanning from 40-20,000 c.p.s. in one second
- Direct reading of voltage and frequency
- Automatic optimum frequency resolution
- Linear and log voltage calibrations
- Wide input voltage range
- Built-in voltage and frequency calibrator
- Simple operation

SPECIFICATIONS

Frequency Range: 40-20,000 c.p.s. • Input Voltage Range: Five ranges—0.5mv to 50mv, 5mv to 0.5v, 0.05v to 5v, 0.5v to 50v and 5v to 500v. Each range is divided into seven scale ranges. Thus for range 0.5mv-50mv, full scale deflections obtainable at 0.5mv, 1mv, 2.5mv, 5mv, 10mv, 25mv and 50mv. Two controls select input range and scale multiplier. • Resolution: Refer to graph. • Frequency Scale: Closely logarithmic. • Voltage Scale: Linear and two decade log. • Voltage Accuracy: Within ± 10% on linear scale, and within 1.5db on log scale. Residual harmonic products suppressed at least 60db and hum suppressed at least 55db below maximum signal permitted on any input range. • Harmonic Measurement: Weakest measurable second harmonic for input frequencies of 1000 c.p.s. and above — 0.2%, 500 c.p.s. — 0.3%, 250 c.p.s. — 1%, 100 c.p.s. — 5% and 40 c.p.s. — 20%. • Input Impedance: Approximately constant at 250,000 ohms. • Power Supply: Voltage stabilized, operates on 115V-230V., 60 cycle. 100 watts. Use of external line voltage regulator recommended. • Dimensions: Overall—22⅝" high, 22¾" wide and 20½" deep. 12¼" analyzer panel and 8¾" power supply panel are standard rack mount. Analyzer and power supply mounted in well vented sturdy steel cabinet. • Finish: Grey wrinkle.



SA-6

PANALYZOR Series SB-3, SB-6
PANADAPTOR Series SA-3, SA-6

VISUAL PRESENTATION OF RF SPECTRUM FOR SIMPLE, RAPID ANALYSIS

SB-3

ADVANTAGES

- Provides spectrograph of radio frequencies
- Shows instantaneous changes in signal frequencies and amplitudes
- Identifies signals and their spurious radiations
- Simple operation
- Quick interpretations

USED IN

- Research laboratories
- Maintenance shops
- Universities
- Communications centers
- Airports
- Production lines
- Broadcast stations

USED FOR

- Analyzing FM and AM transmitter characteristics
- Testing industrial RF equipment
- Analyzing oscillators
- Checking Piezo-electric crystals
- Monitoring communications frequencies • Telemetering
- Monitoring diathermy and electro-surgical instruments

By scanning a band of signals and presenting them on a CR screen as vertical pips whose height and horizontal position indicate signal level and frequency, the PANALYZOR and PANADAPTOR provide the utmost in simplicity and speed for investigating and solving various RF problems . . . frequency drift, modulation AM and FM, oscillation, frequency determination, parasitics and monitoring under static and dynamic conditions. In all models the scanning width is continuously variable from maximum to zero providing sharper visual separation or resolution of closely adjacent signals. PANADAPTOR units operate with superheterodyne receivers (see specs) which tune in the spectrum segment to be observed. PANALYZORS utilize an external signal generator for this purpose and provide a flat amplitude response for determining relative levels of displayed signals.

PANALYZOR PANADAPTOR	Model SB-3 Model SA-3 Types				Model SB-6 Model SA-6 Types	
	T50	T200	T1000	T6000	T10,000	T20,000
Maximum Scanning Width	50KC	200KC	1MC	6MC	10MC	20MC
Resolution at Max. Scan	2.5KC	4.4KC	11.0KC	25KC	75KC	100KC
Resolution at 20% of Max. Scan	1.9KC	3.8KC	7.5KC	22KC	65KC	75KC
*Input Frequency	500KC	500KC	5MC	30MC	30MC	30MC
†IF of Companion Receiver	455KC	455KC	5.25MC	30MC	30MC	30MC

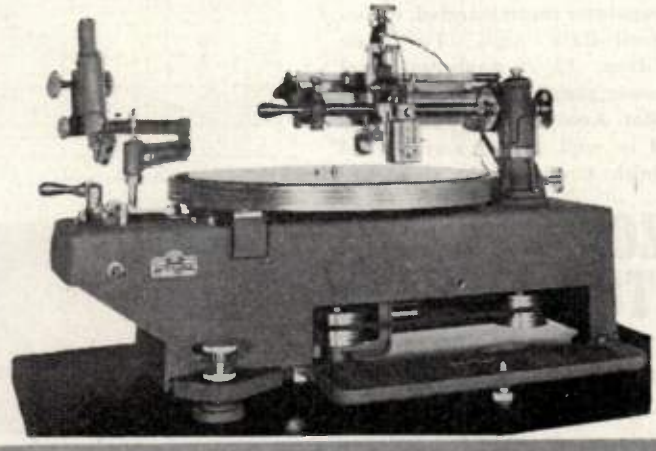
*Applies to PANALYZOR †Applies to PANADAPTOR

WRITE FOR COMPLETE DETAILS

PANORAMIC RADIO CORP.
92 Gold St. New York 7, N. Y.
Cable Address PANORAMIC, NEW YORK
Exclusive Canadian Representative: Canadian Marconi, Ltd.

64A Transcription Turntable incorporates exclusive features which are of great interest to the broadcast station. The Turntable is directly gear driven at both 33⅓ and 78 rpm. A separate motor is employed for each speed. Error in total speed regulation is completely absent, and mechanical disturbance is reduced to a new minimum. Change in speed is accomplished by turning a double throw mercury switch —the usual mechanical shift is eliminated. At 33⅓ rpm full speed is attained within about one-twelfth revolution.

• • •



The 8D and 8D-G Recorders (16") are similar in many respects. The 8D is a conventional rim driven unit while the 8D-G is directly gear driven at both 33⅓ and 78 rpm employing a separate motor for each speed. Total speed error in the 8D-G is completely eliminated. The recorder itself which is common to both models is of unusually heavy construction and includes such features as a cantilever type overhead, reversing gear on the feed screw, and belt driven feed drive with seven different feed pitches. Presto automatic equalizer and microscope are included.

You've got to be GOOD if you want to be first!

WITH every engineer it's the performance that counts. That's the reason engineers acknowledge that Presto is first in the recording equipment field. This is true because Presto has a record of many firsts in creative engineering, and because that creative engineering is so well translated into enduring equipment through precision manufacture.

We let this record speak for itself when we describe our equipment to engineers through the printed word. When you add up the facts you're bound to reach this same conclusion: Engineers prefer Presto for performance.

PRESTO
RECORDING CORPORATION

WORLD'S LARGEST MANUFACTURER OF INSTANTANEOUS SOUND RECORDING EQUIPMENT & DISCS

1-D Cutting Head provides stability, uniformity, and sensitivity with low distortion for recording transcriptions having specified response characteristics such as flat, NAB, etc. Response: 50-10,000 cps. Crossover at 500 cps. Response and level not affected more than ±2½ db between 60° and 95° Fahrenheit.

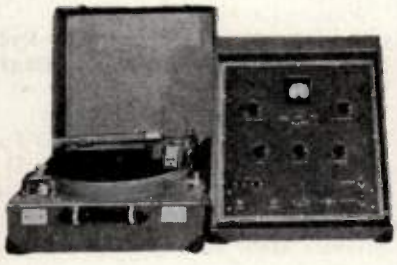
The 90-A Portable Recording Amplifier unit incorporates the following: three channel mixing preamp. and line input—response: NAB, 78 rpm, and flat (30-15,000 cps)—high and low frequency equalizers—outputs for one or two turntables or a line.

92-A Recording Amplifier. Vertically mounted chassis, all circuits easily accessible. A 50 watt amplifier, output stage has four 807's in push-pull parallel. Push-button selection of recording characteristics: flat (20-17,000 cps ±1½ db), 78 rpm, standard NAB lateral, NAB vertical. Distortion only 1½% at full output. Selector switch and meter provide output level indicator and plate readings for all tubes.

8N Recorder (16") is well known to broadcast and recording engineers. It is a rim driven unit employing a heavy cast iron turntable and an overhead mechanism of unusually solid construction which is driven from the center of the turntable. Change of feed pitch and direction is accomplished by changing feed screws.

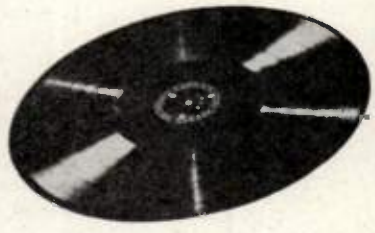
6N Recorder (16") has proven ideal for most broadcast stations and recording studios because of its high quality and relatively economical cost. It is supplied in carrying case for portable and remote assignments as well as in a cabinet. Its design is of the conventional rim driven type with overhead feed mechanism.

62A Transcription Turntable has been widely used by broadcast stations and recording studios during the past five years. It is rim driven through a machined rubber tire at the outer diameter of the turntable, providing a very simple and quiet drive.



The Y Recorder (16") is the lightest portable recorder having all the features necessary for high quality recordings. The turntable is driven by a synchronous motor through a machined rubber tire on the outer diameter of the turntable. The 10 watt amplifier is equipped with two microphone inputs, connections for double turntables, high and low frequency equalizers and 10" speaker.

K8 Recorder (12") is complete with amplifier and speaker, operates at both 78 and 33⅓ rpm, outside-in and inside-out. It is equipped with a high frequency equalizer. Fifteen minutes of voice quality may be recorded on a single side of a 13¼" disc. This unit is used by many schools, colleges, broadcast stations and recording studios.



More than a decade ago, Presto developed the first lacquer-coated recording disc. Today Presto's instantaneous recording and master discs are the finest known to the trade.

PRESTO
RECORDING CORPORATION

Paramus, N.J., Mailing address,
P.O. Box 500, Hackensack, N.J.

Walter P. Downs, Ltd., in Canada

PREMAX

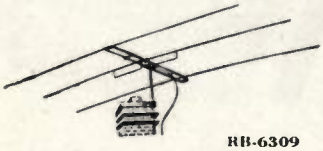
Antennas for FM, TV Experimental. Amateur

Verticals, Beams, Dipoles, Elements . . . for Land, Sea, Air and Mobile Use

Adjustable Tubular Antennas, in 1- to 5-section lengths, extending to any height between 6′ and 35′, are available in steel, aluminum and monel. Light-weight, corrosion-resistant and engineered to withstand high wind velocities.

Whip Type Antennas for mobile units are available in solid steel, stainless steel or tubular beryllium copper-monel.

VHF Antennas in various designs for autos and motorcycles.



RB-6309

High-Gain Directive Beam Antennas for 6, 10, and 11 meters. Adjustable seamless duralluminum elements with light-weight steel frames.

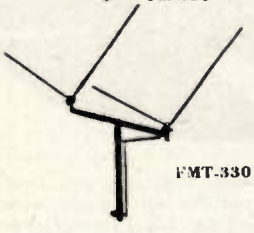
Corulite Reeded Tubular Elements, telescoping and fully adjustable between 5′ and 7′ length, for beam arrays and experimental uses.

FMT-254

Extended V-type Dipole Antennas for all frequencies between 44 and 216 mc. Extended arm V dipole element mounted on hardwood mast and crossarm. Permits proper impedance matching to 300-ohm line for FM or TV reception.

FM-130

Adjustable V Dipole Antennas, designed for maximum response on FM and TV bands. Dipole arms of heat-treated aluminum may be adjusted to any angle for best reception to counteract man-made electrical noise or reflected signal. Provides better reception than any straight dipole in congested areas. Supplied with 50″ tubular steel support.



FMT-330

Adjustable V Dipole Antenna with Reflector that will get the more distant FM and TV stations. Reflector element is built in and, like the dipole, is fully adjustable. This antenna, mounted reasonably high and in the clear, insures optimum reception of signals from all stations within the line of sight.

Mountings for Premax Antennas are designed to meet all needs.

WRITE FOR ANTENNA CATALOG NO. R-47

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4828 Highland Avenue — Niagara Falls, N.Y.

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SEE PRODUCT INDEX PAGE 1A

ESICO

REG. U. S. PAT. OFF.

ELECTRIC SOLDERING IRONS FOR HOME, PROFESSIONAL MECHANIC AND FACTORY

● GREEN LABEL LINE

For intermittent duty. Meets all requirements of the home craftsman.

No. 415—List $1.95—3/8" Tip—55 Watts

No. 416—List $2.95—1/4" Tip—60 Watts

No. 417—List $3.95—3/8" Tip—100 Watts

No. 418—List $4.95—1/2" Tip—130 Watts

● ORANGE LABEL LINE

For Professional Mechanics—light or heavy soldering where iron must withstand operation for eight hour periods or more on frequent occasions.

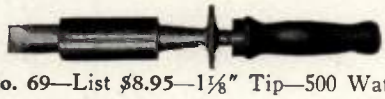
No. 62—List $3.95—1/4" Tip—60 Watts

No. 63—List $4.95—3/8" Tip—100 Watts

No. 64—List $5.95—1/2" Tip—130 Watts

No. 65—List $6.95—5/8" Tip—200 Watts

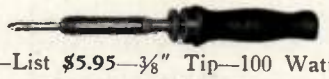
No. 67—List $7.95—7/8" Tip—300 Watts



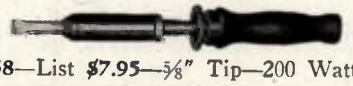
No. 69—List $8.95—1 1/8" Tip—500 Watts

● RED LABEL LINE

For Production Line Continuous Operation. These Irons are of most rugged construction.



No. 38—List $5.95—3/8" Tip—100 Watts

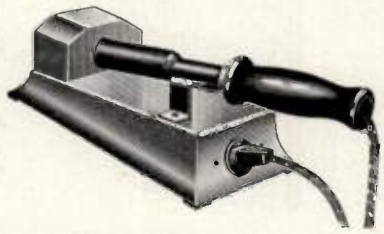


No. 58—List $7.95—5/8" Tip—200 Watts

No. 78—List $8.95—7/8" Tip—300 Watts

No. 98—List $9.95—1 1/8" Tip—550 Watts

● Thermostatic Temperature Control Stand



The iron can be maintained at any desired temperature while in the stand. This is the only way to control the tip temperature of an iron. Control of element temperature is not satisfactory. There is too much of a lag between element and tip temperature.

Years ago we developed a thermostatically controlled iron, which regulated the element temperature (just as presently marketed thermostatically controlled irons do) but we discarded the iron as it would permit the tip to cool.

When the stand is properly adjusted, it is impossible for the iron to overheat or to burn off its tin.

	List Price
Cat. No. 5 Irons up to 1" dia. tip	$ 6.50
Cat. No. 6 Irons up to 1 5/8" dia. tip	6.50

● Soldering Pots

Ruggedly constructed, cast iron pots for production work. Elements are easily replaced even while pots are hot.

	Net Price
Cat. No. 12—1 1/2" dia. Cap. 3/4 lbs.	$ 4.50
Cat. No. 36—2 1/2" dia. Cap. 2 1/4 lbs.	5.50
Cat. No. 60—3 1/2" dia. Cap. 3 3/4 lbs.	6.50

● Spot Soldering Machine

Model "F" is a treadle operated machine which feeds solder forward as the iron moves away from the work. Suitable for spot soldering where a mechanical connection has first been made. Net price $15.00

Model "N" is a treadle operated machine for the advancement of the iron, but without a solder feed attachment. Net price $7.50

● Glue Pots

The catalogue No. 700 Glue Pot is of two quart capacity. It is the water jacket type and has a gasket sealed element and thermostat completely protected from moisture. Thermostat is normally set at 150 degrees for use with glue, but can be set at various temperatures for use with wax, etc. Net price $18.50

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Scientists, engineers and others concerned with the technical aspects of radio and electronics will find the following publications to be of great value in their work.

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Radio Corporation of America
RCA Laboratories Division
Princeton, New Jersey.

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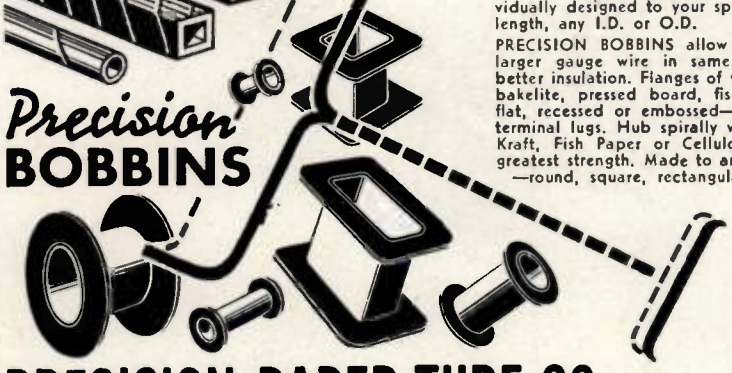

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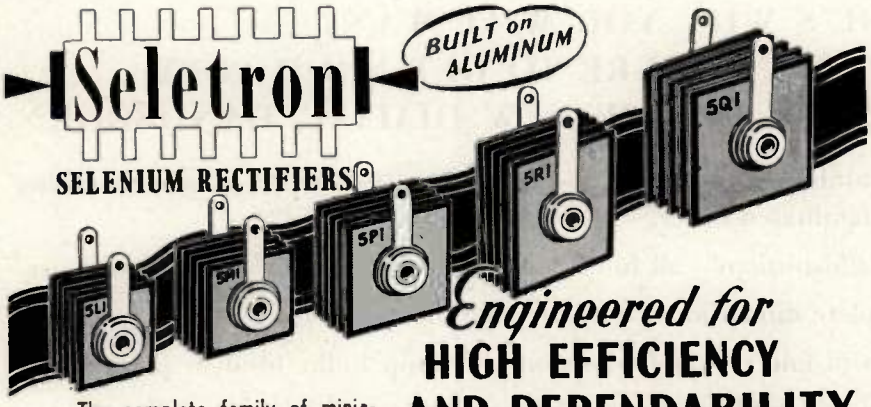

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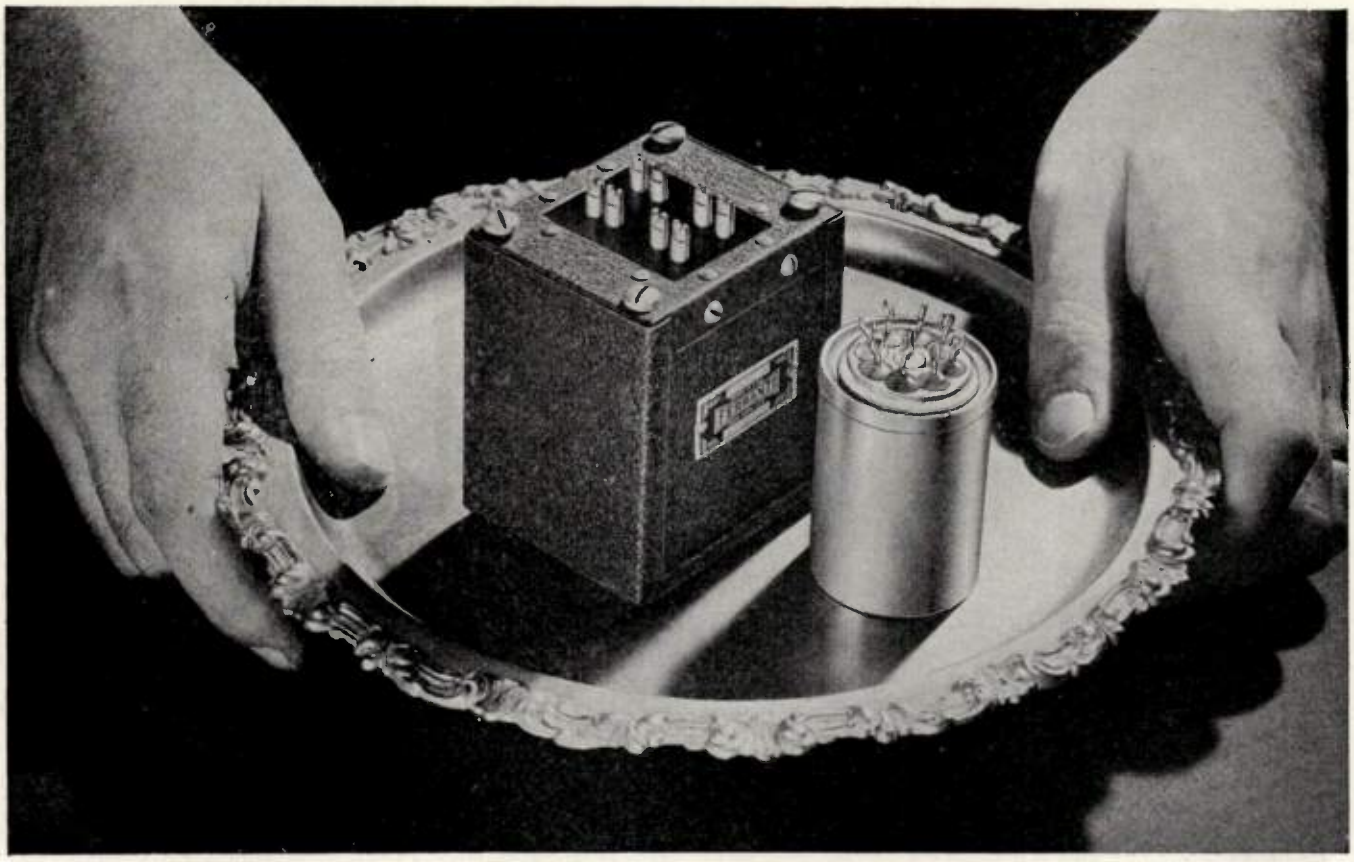

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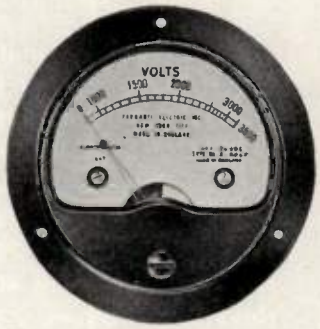

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Rex Rheostat Co., 3 Foxhurst Rd., Baldwin, L.I., N.Y.—61

Harrison Reynolds Co., 419 Commonwealth Ave., Boston 15, Mass.—94

(Continued on page 80A)

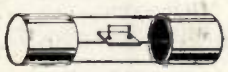
SEE PRODUCT INDEX PAGE IA

BUSS Fuses • Fusetrons • Holders

for Protection of Radios, Instruments and Electronic Equipment

FAST ACTING FUSES for PROTECTION OF INSTRUMENTS, Etc.

Provide high speed action necessary to protect sensitive instruments.



Type MJB

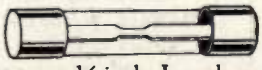
¼ x 1 inch, Glass tube

Type AGX

Voltage	Type	Amperes
250 or less	MJB	1/200, 1/100, 1/32 or 1/16
125 or less	AGX	⅛, ¼, ⅜, ½, ¾, 1, 1½ or 2

BUSS FUSES — SFE STANDARD

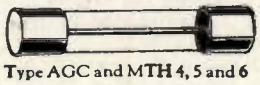
Fuses of different amperages are of different lengths — to make it impossible to insert too large a size — thereby preventing over-fuseing.



Glass tube — diameter ¼ inch. Length as per table below.

Voltage	Type and Amperes	Length Inches	Pounds per 100
32 or less	SFE 4	5/8	.70
"	SFE 6	3/4	.71
"	SFE 9	7/8	.72
"	SFE 14	1 1/16	.77
"	SFE 20	1 1/4	.83
"	SFE 30	1 7/16	1.05

BUSS GLASS TUBE FUSES, ¼ x 1¼ inch



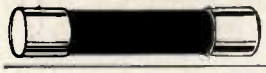
Type AGC and MTH 4, 5 and 6

Type MTH 8

Voltage	Type	Amperes
250 or less	AGC	⅛, ¼, ⅜, ½, ¾, 1, 1½, 2 or 3
"	MTH	4, 5, 6 or 8
32 or less	AGC	5, 6, 7½, 10, 15, 25 or 30

20 ampere size is an SFE 20 fuse.

BUSS BAKELITE TUBE FUSES, ¼ x 1¼ inch



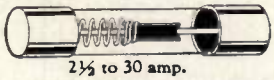
Voltage	Type	Amperes
125 or less	ABC	10, 12 or 15

BUSS FUSETRONS, ¼ x 1¼ inch

Bussmann's dual element fuse

1/100 and 1/32 amp.

1/16 to 2 amp.



2½ to 30 amp.

Glass tube

A FUSE WITH A LONG TIME-LAG

Fusetrons avoid needless blows from starting currents or surges. They have a fuse link which operates only on very high overloads or short-circuits — they have a thermal cutout which functions on low overloads — the thermal cutout cannot operate quickly at any load, hence long time-lag is obtained. Yet protection is afforded against short-circuits or continued overloads.

Test specification—carry 110%, open at 135% in 1 hour.
Approximate blowing time: at 200% load 25 seconds
at 300% " 8 "
at 500% " 3 "

125 and 250 volt sizes listed as approved by Underwriters' Laboratories.

Shipping weight 0.9 lbs. per 100.

Voltage	Type	Amperes
250 or less	MDL	1/100, 1/32, 1/16, 1/10, 15/100, 2/10, 3/10, 4/10, ½, 6/10 or 8/10
125 or less	MDL	1, 1¼, 1 6/10, 2, 2½,
32 or less	MDL	3 2/10, 4, 5, 6¼, 8, 10, 15, 20, 25 or 30

BUSS FUSE CLIPS & CLIP ASSEMBLIES for ¼ inch Fuses

(SFE 4, 6, 9, 14, 20, AGX, AGC, ABC, MDL, MJB, MTH fuses)

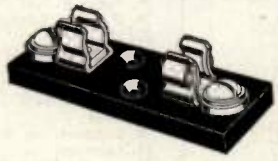
Spring bronze clips are made of Herculoy. This metal gives great gripping strength and retains spring under adverse conditions.

Beryllium copper clips combine low electrical resistance with great gripping strength. This means cooler operation of clips and fuse.

4548 Spring bronze clip, nickel plated.
4592 Beryllium copper clip, Silver plated.

Assemblies consist of clip, terminal screw, brass terminal, and mounting screw.
4431 uses No. 4548 clip — described above.
4432 uses No. 4592 clip — described above.

BUSS FUSE BLOCKS



Blocks are made of 3/16 inch bakelite with countersunk mounting holes. Clips are of spring bronze.

Fuse blocks are made in many sizes and types.

Tell us your requirements.

BUSS FUSE HOLDERS

Make it convenient to mount fuse on any equipment.

It is easy to change or inspect fuse.

Holder has removable knob. Fuse projects beyond body of holder and is not held tight on other end when knob is removed.

Fuse and contacts are protected from dirt and fumes.

Good contact on fuse is made certain by strong coil spring pressure. Poor contact heating that often causes fuses to blow needlessly is eliminated.

Holder bodies are made of black bakelite. All current carrying parts are of brass or copper. Terminals and all contact parts are bright alloy plated.

PANEL MOUNTED HOLDERS for ¼ inch Fuses

Holders are inserted through hole in panel and locked in place by nut on holder. Can be used on panels up to 5/16 thick.

Bayonet type knob requires only quarter turn to remove fuse. No screw driver is needed.

Normal current carrying capacity: 15 amperes.

HJM for ¼ x 1 inch fuses (AGX, MJB, SFE 14)
HKP for ¼ x 1¼ inch fuses (ABC, AGC, SFE 20, MDL, MTH)

IN-THE-LINE HOLDERS for ¼ inch Fuses

Holders are for mounting in wire. Consist of body and bayonet type knob—two terminal contacts ready to be crimped on wire — a pressure spring that is used under contact in base of holder.

Holder can also be mounted in panel up to 5/16 inch thick by means of a Tinnerman nut. Flat spot on holder permits it to be locked against rotation.

Normal current carrying capacity: 15 amperes.

HDI for ¼ x 1 inch fuses (AGX, SFE 14, MJB)
Takes No. 18 or smaller wire.

HDJ-A for ¼ x 1¼ inch fuses (ABC, AGC, MDL, MTH, SFE 20)
Takes No. 18 or smaller wire.

HDJ-B for ¼ x 1¼ inch fuses (as above)
Takes No. 14 or 16 wire.

GET FULL INFORMATION

Ask for bulletin SFB on BUSS Small Dimension FUSES — FUSETRONS — and HOLDERS

BUSSMANN MFG. CO., University at Jefferson, St. Louis 7, Mo.
Division McGraw Electric Company

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The Richardson Co., Melrose Park, Ill. —50

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4.	Antenna Phasing Equip. & Accs.	100A
5.	Attenuators	100A
6.	Batteries	100A
7.	Blowers & Cooling Fans	100A
91.	Books & Book Publishers	126A
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15.	Connectors	104A
93.	Consulting Engineers	128A
16.	Converters	104A
17.	Core Materials	104A
18.	Crystals	104A
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37.	Metals	110A
38.	Meters	110A
39.	Microphones	112A
40.	Monitoring Equipment	112A
41.	Motor Generators	112A
42.	Motors, Very Small	112A
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46.	Oscillographs & Accessories	114A
47.	Panels	114A
48.	Phonograph & Transcription Pickups	114A
49.	Pilot Lights & Assemblies	114A
50.	Plastics	114A
51.	Plugs	116A
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53.	Pumps, Vacuum	116A
54.	Radar Equipment & Associated Apparatus	116A
55.	Radio Receivers	116A
56.	Record Changers	117A
57.	Recording Equip. & Supp.	117A
58.	Rectifiers	117A
59.	Relays	117A
60.	Remote Controlling Equip.	117A
61.	Resistors	118A
62.	Sockets	118A
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64.	Switches	118A
65.	Testing & Measuring Equip.	120A
66.	Transformers	120A
67.	Transmitters	122A
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69.	Vacuum Tubes	122A
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SEE PRODUCT INDEX PAGE 80A

ELECTRICAL INSTRUMENTS
•
RESISTORS
•
VARIABLE ATTENUATORS
•
SWITCHES

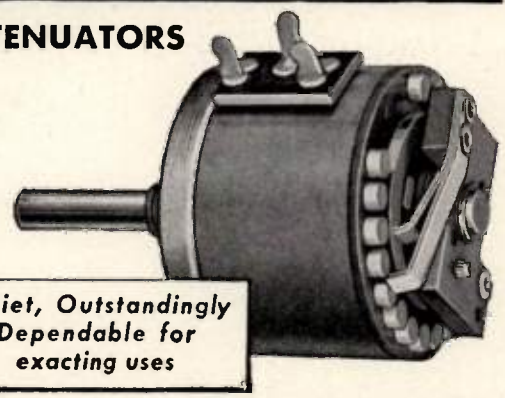
SHALLCROSS MANUFACTURING CO.

COLLINGDALE, PENNSYLVANIA

SHALLCROSS AUDIO ATTENUATORS

These Shallcross Features Mean BETTER PERFORMANCE — BIGGER VALUE!

- √ Off position attenuation well in excess of 100 db.
- √ 25% to 50% fewer soldered joints.
- √ Noise level ratings that are factual. (130 db or more below zero level).
- √ Non-inductive Shallcross precision resistors used throughout assure flat attenuation to and beyond 30 kc.
- √ Types and sizes engineered for all needs. Attenuation accuracies of 1%; Resistor accuracies of 0.1% on special order.



Quiet, Outstandingly Dependable for exacting uses

Shallcross Audio Attenuators are available in either variable or fixed units, the former often being referred to as a "control" and the latter, as a "pad".

The variable attenuator or control consists of a rotary switching device so designed that the element or elements in a resistance network can be simultaneously varied in steps to provide known steps of attenuation in decibels. These controls are as small as is consistent with good design and are provided with removable shields for mechanical inspection and servicing.

Although an attenuation network usually has four terminals, it is common practice to use only three, the design being such that there exists no difference in potential between the input and output ground terminals.

Controls are available with as few as 5 steps or as many as 52 steps with an attenuation as small as 0.1 db per step. The total attenuation for a single control does not exceed about 125 db since such high attenuation approaches the noise level of the switching mechanism.

The "pad" or "fixed pad" consists of a resistance network of wirewound or composition resistors in as small a shielding container as is practical, with three terminals for input, output, and ground, the latter being designated in most cases as "C".

Most attenuators are designed for 1:1, or 1:2 impedance ratio use but special controls and fixed pads are available for any impedance ratio. A variation of the usual control is the multi-impedance matching attenuator which is designed to match an input impedance to any of several output impedances depending upon the control setting, with either minimum loss or constant 20 db loss. Other special units available include zero insertion loss ladder circuits, cueing attenuators, and dual turntable faders.

Specifications and prices are given below for a few of the most popular variable attenuators. The complete story of Shallcross attenuators may be found in Shallcross Interim Attenuator Catalog #3, copies of which are available on request.

IMPEDANCE: 150, 500, 250/500, 600 ohms, except potentiometers, which are 100.000 and 250.000 ohms.
RESISTORS: All non-inductively wirewound. ±5% tolerance except types preceded with "C" which are composition selected to ±5%.
ATTENUATION: Increases for counter-clockwise rotation of shaft (knob end).
FREQUENCY RESPONSE: Flat over entire audio range.
SWITCH MECHANISM: Multi-leaf wiper arms collector rings and contacts available in tarnish resistant silver alloy or brass. Noise level –130 db.
DETENT: Indexing mechanism available on any unit for $0.50 list. Back of panel depth is then increased 5/16".
KNOBS AND DIALS: $0.80 list each additional.

120-2A3 **$8.00 silver** **7.00 brass**	Ladder attenuator, 20 steps, 2 db per step, tapered on last 3 steps to off. *Mounting:* single hole, 3/8"-32 threaded bushing or two-hole, 6-32 screws, 1¼" centers. *Dimensions:* 1¾" diameter, 1¾" back of panel depth. *Contact spacing:* 15°.
C720-2A3 **$8.00 silver** **7.00 brass**	Potentiometer, 20 steps, 2 db per step, tapered on last 3 steps to off. *Mounting:* single hole, 3/8"-32 threaded bushing or two hole, 6-32 screws, 1¼" or 1½" centers. *Dimensions:* 1¾" diameter, 1¾" back of panel depth. *Contact spacing:* 15°.
132-1.5B3 **$13.50 silver** **12.00 brass**	Ladder attenuator, 32 steps, 1.5 db per step, tapered on last 3 steps to off. *Mounting:* two hole, 6-32 or 8-32 screws, 1¼" or 1½" centers. *Dimensions:* 2⅛" diameter. 1¾" back of panel depth. *Contact spacing:* 10°.
432-1.5C3 **$21.00 silver** **19.00 brass**	Bridged T attenuator, 32 steps, 1.5 db per step, tapered on last 3 steps to off. *Mounting:* two hole, 6-32 or 8-32 screws, 1¼" or 1½" centers. *Dimensions:* 2½" diameter, 2-5/16" back of panel depth. *Contact spacing:* 10°.
420-2C2 **$16.00 silver** **14.00 brass**	Bridged T attenuator, 20 steps, 2 db per step, attenuation linear with off on last step. *Mounting:* two hole, 8-32 or 6-32 screws; 1¼" or 1½" centers. *Dimensions:* 2½" diameter, 1¾" back of panel depth. *Contact spacing:* 10°.
C820-2C2 **$16.00 silver** **14.00 brass**	Dual potentiometer, each section 20 steps, 2 db per step, attenuation linear with off on last step. *Mounting:* two hole, 6-32 or 8-32 screws, 1¼" or 1½" centers. *Dimensions:* 2½" diameter, 1¾" back of panel depth. *Contact spacing:* 10°.

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SHALLCROSS MANUFACTURING CO.

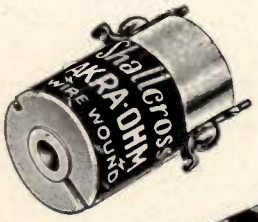
COLLINGDALE, PENNSYLVANIA

ELECTRICAL INSTRUMENTS • RESISTORS • VARIABLE ATTENUATORS • SWITCHES

SHALLCROSS AKRA-OHM RESISTORS

TYPE 100

TYPE 110



TYPES 140 160

TYPES 196 116

TYPE 183

TYPE 193

LIST PRICES—Standard Types, ±1% Tolerance

Resistance Range	Types 160 and 196	Types 120, 173 and 183	Types 100, 140, 186 and 193
.5 ohms to 1000 ohms	$1.40	$ .85	$1.15
Up to 2000 ohms	1.50	.90	1.25
Up to 5000 ohms	1.50	.90	1.25
Up to 10,000 ohms	1.60	1.00	1.35
Up to 15,000 ohms	1.60	1.10	1.35
Up to 30,000 ohms	1.75	1.25	1.50
Up to 50,000 ohms	1.75	1.40	1.50
Up to 75,000 ohms	2.00	1.60	1.75
Up to 100M	2.25	1.85	2.00
Up to 125,000	2.35	2.00	2.10
Up to 150,000	2.50	2.00	2.25
Up to 200,000	2.80	2.25	2.50
Up to 250,000	3.10	2.50	2.75
Up to 300,000	3.40	2.75	3.00
Up to 400,000	3.95	3.00	3.50
Up to 500,000	4.50	3.50	4.00
Up to 600,000	4.80		4.25
Up to 700,000	4.95		4.35
Up to 750,000	5.15		4.50
Up to 900,000	5.45		4.75
Up to 1 megohm	5.75		5.00
Up to 1.5 megohms	8.00		
Up to 2 megohms	11.00		
Up to 2.5 megohms	13.75		
Up to 3 megohms	16.50		
	Types 110 and 116		
Up to 4 megohms	22.00		
Up to 5 megohms	26.00		
Up to 6 megohms	30.00		
Up to 7 megohms	35.00		
Up to 8 megohms	40.00		
Up to 9 megohms	45.00		
Up to 10 megohms	50.00		
For BX Process up to 101,000 Ohms—add	.40	.15	.25

SPECIAL TOLERANCE

Resistors to closer tolerances can be supplied at higher prices. Add to list prices as follows:

±½%, add 5% ±1/10%, add 25%
±¼%, add 10% ±.05%, add 50%
±2/10%, add 15%

Prices shown are for Manganin Wire used in resistances to 1,000 ohms and for Nickel-Chromium-Iron Wire used in resistances above 1,000 ohms.

TYPES 183 AND 193—±1% IN COMMON VALUES—IN STOCK

In addition to the popular standard types listed here, Shallcross Akra-Ohm Resistors are made in a complete line of standard and special designs for precise electronic equipment demanding great stability and long life even under difficult conditions of temperature and humidity.

Shallcross achievements include the development of really practical hermetically-sealed units; BX processed resistors "tropicalized" against moisture and fungus; the use of spun glass insulated wire for applications where considerable power must be dissipated; bifilar wound resistors, 1000 ohms or less, for exacting instrument use; heavy-duty surge resistors; accurate heavy-duty power resistors, and various others. Write for the Shallcross "Engineering Data" wall and file Chart.

ACCURATE FIXED WIRE-WOUND TYPES (JAN R93) PRICES ON REQUEST.

Shallcross Type	** JAN Style	Wattage	* Maximum Ohms	Std. Terminal	Mounting	Dimensions Length—Diam.
100	RB21	1	750,000	#8 screw	5 amp. fuse clip	2 1/16" x 9/16"
110	RB22	2	2 Meg.	#8 screw	5 amp. fuse clip	2 3/8" x 3/4"
116	RB14	1	2 Meg.	Solder lugs	#6 screw	2 3/32" x 3/4"
140	RB41	0.5	350,000	Solder lugs	#6 screw	1 1/4" x 11/16"
160	RB42	1	500,000	Solder lugs	#6 screw	1 9/16" x 11/16"
183	RB11	0.5	300,000	Solder lugs	#6 screw	5/8" x 1/2"
193	RB12	1	400,000	Solder lugs	#6 screw	1" x 1/2"
196	RB13	1	1 Meg.	Solder lugs	#6 screw	1 1/4" x 3/4"
△1196	RB13	1	1 Meg.	Solder lugs	#6 screw	1 1/4" x 3/4"

* Based on use of .0014" diameter nickel chromium wire. Smaller wire sizes will greatly increase maximum allowable resistance on any form.
** JAN style refers to Joint Army-Navy Specification R93. Price depends on wire size and specification.
△ Hermetically sealed. Other sizes available.

SEND FOR RESISTOR ENGINEERING CHART FOR COMPLETE DATA

Copyright by U. C. P., Inc.

SHALLCROSS MANUFACTURING CO.

COLLINGDALE, PENNSYLVANIA

ELECTRICAL INSTRUMENTS • RESISTORS • VARIABLE ATTENUATORS • SWITCHES

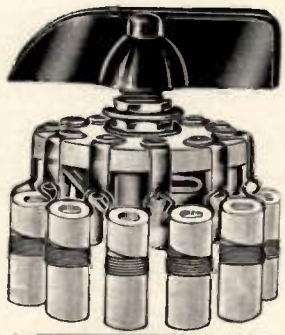
SHALLCROSS DECADE RESISTANCE BOXES

The large assortment and wide range of resistance available makes the Shallcross line of Resistance Boxes unique in the instrument field. They are used extensively as laboratory standards, AC and DC Bridge and ratio arms, voltage dividers, etc.

Accuracy adjustment of Resistors as follows:
0.1 ohm..... 1% 1. ohm..... 0.25% all others..... 0.1%

No.	No. Dials	Ohm Steps	Ohms Total Resistance	Price	No.	No. Dials	Ohm Steps	Ohms Total Resistance	Price
543	1	0.1	1	$13.50	821	3	10	11,100	$39.50
544	1	1.0	10	13.50	822	3	100	111,000	44.50
545	1	10	100	13.50	823	3	1,000	1,110,000	58.00
546	1	100	1,000	13.50	824	3	10,000	11,100,000	91.00
547	1	1,000	10,000	16.50	825	4	1	11,110	51.00
548	1	10,000	100,000	19.50	826	4	10	111,100	56.00
549	1	100,000	1,000,000	27.00	827	4	100	1,111,000	69.50
550	1	1,000,000	10,000,000	50.00	828	4	1,000	11,110,000	105.50
817	3	.01	11.1	45.00	8285	5	0.1	11,111	62.50
817A	4	.01	111.1	56.50	829	5	1	111,110	67.50
817B	5	.01	1,111.1	71.00	830	5	10	1,111,100	81.00
818	3	0.1	111	86.50	831	5	100	11,111,000	117.00
819	4	0.1	1,111	48.00	832	6	1	1,111,110	91.50
820	3	1	1,110	36.50	833	6	10	11,111,100	127.50

UNMOUNTED DECADE RESISTANCES



In response to a demand from engineers, manufacturers and physicists who design and construct their own electrical measuring instruments, we have made the Shallcross Unmounted Decade Resistances available. They are of the same construction as those used in the popular Shallcross Resistance Decades described above and consist of ten Shallcross Resistors mounted on a ceramic instrument switch.

SPECIFICATIONS

Type No.	Total Resistance Ohms	Unit Resistance Ohms	Switch No.	Accuracy	Price
435	1.0	.1	536	1.0%	$9.00
436	10	1.0	531	0.25%	9.00
437	100	10	531	0.1	9.00
438	1,000	100	531	0.1	9.00
439	10,000	1,000	531	0.1	12.00
440	100,000	10,000	531	0.1	14.00
441	1 Meg.	100,000	531	0.1	22.50
442	10 Meg.	1 Meg.	531	0.1	45.00

Mounting: Single 3/8" Hole Mounting—Panels Up to 3/16" Thick. Any of the above may be obtained with aluminum dust cover and shield at $1.50 additional cost.

SHALLCROSS AKRA-OHM PRECISION RESISTORS

for "Miniaturization" applications

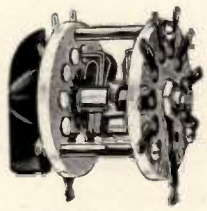
UNUSUAL ACCURACY IN SMALL SPACE

These new Shallcross Okra-Ohm Wire-Wound Precision Resistors have been designed to meet the needs of modern, miniature equipment. Standard tolerance is 1%. Closer tolerances can be furnished on special order.

The units offer unusually high and accurate resistance values in small space and are light enough to be suspended by their own tinned copper leads, or may be secured with mounting screw.

Type	Sections	Size	Watts	Maximum Resistance per section Ohms	Minimum Resistance per section Ohms
136	1	13/32" x 1/4"	0.25	150,000	1.
137	2	41/64" x 1/4"	0.25	150,000	1.
133	3	15/32" x 3/8"	0.25	550,000	1.
134	4	1 1/4" x 3/8"	0.25	375,000	1.

Prices on application.



SHALLCROSS ROTARY SELECTOR SWITCHES

Like other Shallcross instrument components, these Rotary Selector Switches are designed to cover a very wide field of application in both shorting and non-shorting types, and can be modified to control a variety of circuits. Details on any type for practically any application on request. Suffixes B and S denote Brass and Silver contacts and contact arms.

SWITCH PRICES

Poles	Positions	Contact Plate Material	Shorting	Non-Shorting	List Price
1	11	Steatite	4605-B	4610-B	$2.25
2	11	Steatite	4620-B	4615-B	5.25
1	11	Steatite	4605-S	4610-S	3.50
2	11	Steatite	4620-S	4615-S	7.75
1	12	Bakelite	5550-B	5620-B	2.75
1	12	Bakelite	5550-S	5620-S	4.00
1	15	Steatite	5610-B	4225-B	3.00
2	15	Steatite	5615-B	4980-B	6.75
1	15	Steatite	5610-S	4225-S	4.00
2	15	Steatite	5615-S	4980-S	8.75
1	18	Bakelite	5155-B	5625-B	3.75
1	18	Bakelite	5155-S	5625-S	5.55
1	24	Bakelite	5630-B	5570-B	5.00
1	24	Bakelite	5630-S	5570-S	7.00
1	36	Bakelite	4815-B	4850-B	*
1	36	Bakelite	4815-S	4850-S	*
1	48	Bakelite	4640-B		*
1	48	Bakelite	4640-S		*
1	60	Bakelite		5935-B	*
1	60	Bakelite		5935-S	*
	Large Rotating Tap Switch—12 Brass Contacts—number 2240-2 Shorting only				$15.00

*** Prices on application.**

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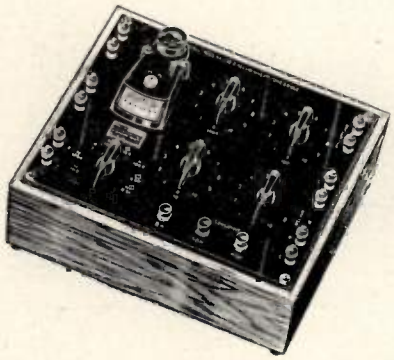
ELECTRICAL INSTRUMENTS
•
RESISTORS
•
VARIABLE ATTENUATORS
•
SWITCHES

SHALLCROSS MANUFACTURING CO.

COLLINGDALE, PENNSYLVANIA

SHALLCROSS D-C BRIDGES



No. 638-2
KELVIN WHEATSTONE BRIDGE

Resistance range 0.0001 ohm to 11.11 megohms

SPECIFICATIONS

ACCURACY—0.3% between 1.0 ohm and 11.11 megohms. Below 0.1 ohm, 3%.
GALVANOMETER—Built-in—sensitivity 0.25 micro-ampere per millimeter division.
RHEOSTAT ARM—Four decades—1.0 ohm steps in Wheatstone and 1.0 micro-ohm steps in Kelvin ranges.
RESISTANCE BOX—Binding posts allow using rheostat as Resistance Box.
SEPARATE KEYS—Provided for battery and galvanometer circuits.
CASE—Carrying type with removable cover (not illustrated) and compartment for 4½ volt battery (not supplied) for Wheatstone range measurements.
DIMENSIONS—Length 12¼", width 10⅛", height 6½".
WEIGHT—Approx. 9 lbs. Price $175.00.

No. 637
KELVIN WHEATSTONE BRIDGE

Resistance range 0.001 ohm to 11.1 megohms

SPECIFICATIONS—Same as No. 638-2 except:

ACCURACY—1.0% between 1.0 ohm and 1.0 megohm; 2.0% above 1.0 megohm; and 3.0% below 0.1 ohm.

GALVANOMETER—Sensitivity 1.0 micro-ampere per millimeter division. Built-in.

RHEOSTAT ARM—Three decades—10 ohm steps in Wheatstone, and 10 micro-ohm steps in Kelvin ranges.

CANNOT be used as Resistance Box.

DIMENSIONS—Length 10", width 9¾", height 5¼".

WEIGHT—Approx. 7 lbs. Price $120.00.

No. 630
WHEATSTONE BRIDGE

Resistance range from 0.1 ohm to 11.1 megohms

SPECIFICATIONS

ACCURACY—1.0% between 10 ohms and 1.0 megohm—2% over 1 megohm.
COMPONENT RESISTORS—0.1% accurate except 1 ohm, which are 0.25%.
RHEOSTAT ARM—Three decades—variable in 10.0 ohm steps.
RESISTANCE BOX—Binding posts allow using rheostat as Resistance Box.
CAM SWITCH—Provided for battery and galvanometer circuits.
CASE—Carrying type with removable cover and compartment for batteries and leads (not supplied).
DIMENSIONS—Length 10", width 9¾", height 5¼".
WEIGHT—Approx. 6 lbs. Price $90.00.

No. 629
FAULT LOCATION BRIDGE

Resistance range 0.1 ohm to 11.11 megohms

SPECIFICATIONS

ACCURACY—COMPONENT RESISTORS—0.1% accurate except 1.0 ohm, which are 0.25%.
GALVANOMETER—Built-in—sensitivity 1.0 micro-ampere per mm. division.
RHEOSTAT ARM—Four decades—11,110 ohms—variable in 1 ohm steps.
RATIO DIAL—Marked 0.001, 0.01, 0.1, 1.0, 10.0, 100 and 1000 for resistance measurements and Varley tests. M1, M 10, M 100 and M 1000 for Murray tests.
SEPARATE KEYS—Provided for battery and galvanometer circuits.
CASE—Carrying type with removable cover, concealed compartment for 4½ volt battery (not supplied).
BINDING POSTS—Provided for use of external galvanometer where required.
DIMENSIONS—Length 10⅜", width 8⅝", height 5⅝".
WEIGHT—Approx. 7 lbs. Price $110.00.

VOLTAGE DIVIDERS (DECADE POTENTIOMETERS)

No.	Dials	Total Resistance	Price	No.	Dials	Total Resistance	Price
835	4	10,000 ohms	$ 90.00	845	3	1,000 ohms	$64.00
836	4	100,000 ohms	100.00	846	3	10,000 ohms	69.50
837	4	1,000 ohms	84.00	850	3	100,000 ohms	79.50

Net

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Alphabetical Directory of Firms

(Continued from page 80A)

Holmes St., Belleville 9, N.J.—8
Scophony Corporation of America, 527 5th Ave., New York 17, N.Y.—55, 67
Hermon Hosmer Scott, Inc., 385 Putnam Ave., Cambridge 39, Mass.—96, 2, 23, 38, 65, 66
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Scott Radio Labs., Inc., 4541 Ravenswood Ave., Chicago 40, Ill.—55
Scully Machine Co., 62 Walter St., Bridgeport 8, Conn.—57
Seaboard Electric Co., 145 Hudson St., New York 13, N.Y.—20, 64
Seager Carbon Co., 289 Church St., New York 13, N.Y.—27
Sealol Corp., 45 Willard Ave., Providence 5, R.I.—27
Segar & Taylor Co., 4508 E. Genesee St., DeWitt, N.Y.—94
Henry P. Segel Co., 143 Newbury St., Boston 16, Mass.—94
Ernest Seidelmann Corp., 19 Murray St., New York 7, N.Y.—94
Selectar Industries, Inc., 401 E. 138th St., New York 54, N.Y.—1, 3, 4, 5, 9, 27, 47, 48, 51, 52, 54, 55, 56, 57, 58, 60, 67, 68, 70, 71
Sellers Co., 912 Commerce St., Dallas 2, Texas—97, 99
Sensitive Research Inst. Co., 9 Elm St., Mt. Vernon, N.Y.—38, 61, 64, 65, 68
Sentinel Radio Corp., 2100 Dempster St., Evanston, Ill.—55
Serdex, Inc., 91 Cambridge St., Boston, Mass.—3, 20, 55
Servo Corp. of America, 294 N. Fulton Ave., Lindenhurst, N.Y.—1, 3, 4, 16, 20, 26, 44, 54, 55, 60, 67, 68
Servo Tek Products Co., 247 Crooks Ave., Clifton, N.J.—26
Sextan Can Co., Inc., 31 Cross St., Everett 49, Mass.—27
Shakeproof, Inc., 2501 N. Keeler Ave., Chicago 39, Ill.—27
Shallcross Mfg. Co., 520 Pusey Ave., Collingdale, Pa.—5 38, 61, 64, 65
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Shellruss Construction Corp., 50 Tain Dr., Great Neck, N.Y.—96
Shepard Labs., 31 Union Pl., Summit, N.J.—93, 96
Sherman Industrial Electronics Co., 503 Washington Ave., Belleville 9, N.J.—28, 29
Sherron Electronics Co., Div. of Sherron Metallic Corp., 1201 Flushing Ave., Brooklyn 6, N.Y.—1, 2, 20, 22, 24, 28, 40, 45, 46, 52, 54, 55, 60, 65, 67, 68, 71
See advertisement on page 5A
Shorter Electric Co., 1006 W. Washington Blvd., Los Angeles 15, Calif.—2
Shur Antenna Mount, Inc., 272 Sea Cliff Ave., Sea Cliff, L.I., N.Y.—3, 4
Shure Brothers Inc., 225 W. Huron St., Chicago 10, Ill.—39, 48, 57, 64, 66
See advertisement on page 83A
Shurite Meters, 61 Hamilton St., New Haven 8, Conn.—38, 65

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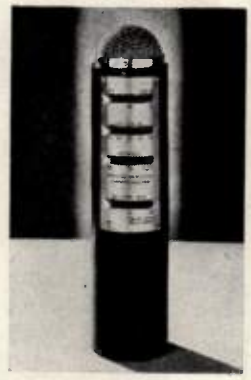
SEE PRODUCT INDEX PAGE 1A

"PACKAGED ENGINEERING"
By Hermon Hosmer Scott, Inc.

POCKET-SIZE NOISE METER



The Type 410-A Sound Level Meter, the latest development in the H. H. Scott line, is a self-contained unit meeting all requirements of the American Standards Association and weighing only a little over two pounds. This Sound Level Meter is as great a step ahead of other contemporary designs as the original Scott-designed Sound Level Meter, which won the Electrical Manufacturing Product Design Award in 1937.

Range: 34-140 db (higher ranges on special order.)

All three standard ASA weighting curves, including flat response. Two-speed meter. Provision for using extension cable, external microphone, vibration pick-up, filter sets, analyzers, etc. Rugged sub-miniature tubes.

Net Price, $195.00, f.o.b. Cambridge, Mass.

REALISM FROM RECORDS

A Complete, Compact Amplifier

The Type 210-A Laboratory Amplifier with the famous H. H. Scott *Dynamic Noise Suppressor provides in a single small unit all electronic equipment necessary for the finest reproduction of recorded music while reducing both scratch and rumble. For music lovers everywhere, there is nothing that equals the Type 210-A Amplifier. It may also be used with FM or AM tuners or other signal sources. Effective frequency range exceeds 20 cycles to 20 kc. (With *Dynamic Noise Suppressor, to 16 kc.)

Available power output, 20 watts, with less than 2% distortion.

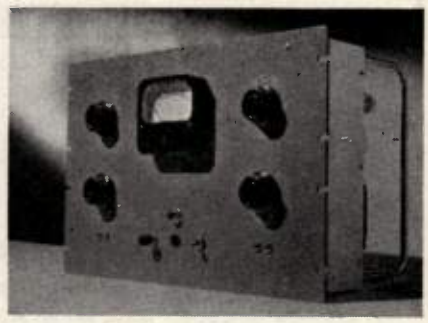
Independent boost or attenuation of either high or low frequencies. Low hum level.

Variable reluctance pickup and built-in preamplifier included.

Price, $460.00 list, $276.00 net, tax included, f.o.b. Cambridge, Mass.

H. H. Scott, Inc. also maintains license laboratories for the *Dynamic Noise Suppressor, which is a feature of the finest radio phonographs.

FOR BROADCAST STATIONS



The Type 910-C *Dynamic Noise Suppressor is widely used by leading independent and network stations to provide wide-range, low-noise-level program material from records and transcriptions of music. This is the first and only device of its type available commercially for broadcast station use. It reduces both high-frequency (scratch) and low-frequency (rumble) noises. Indispensable for FM and high-fidelity AM stations.

Remote control . . . Distortion less than 0.3% . . . Hum level 80 db below standard test level . . . Operating level —30 to +10 VU . . . 600-ohm impedance (unbalanced input, balanced or unbalanced output) . . . illuminated meter for monitoring . . . Maroon crackle panel finish. Price, $565.00 net, f.o.b. Cambridge, Mass.

Remote control units, $14.00 each.
Balanced input circuit, $20.00 extra.
Special panel finish, $15.00 extra.

Further information on the above products or services gladly supplied upon request. Prices and specifications subject to change without notice.

** Dynamic Noise Suppressors licensed under United States and foreign patents pending and issued.*

Engineering Representatives

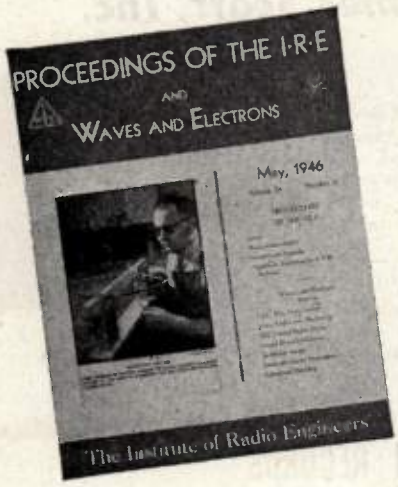
1024 Superior Street
Oak Park, Illinois
Village 9245

623 Guaranty Building
Hollywood 28, California
Hollywood 5111

HERMON HOSMER SCOTT, INC.
"PACKAGED ENGINEERING"

Dept. IR-1 385 PUTNAM AVE. • CAMBRIDGE 39, MASS.

Three Ways to Reach Radio Engineers



A Journal—
of the Theory, Practice, and Applications of Electronics and Electrical Communication.

DEFINITION

"Proceedings of the I.R.E."
publishes the articles of advance research on which the progress of our whole industry depends, for "PROCEEDINGS" is the record of progress.

"Waves and Electrons"
contains the engineering applications of radio-and-electronic research — the more tangible developments of the practical science.

The Complete Magazine
presents a perfect whole — research plus engineering, accurately and faithfully reported for engineers.

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2. **The I.R.E. Yearbook** is the personal, desk directory of these 15,000 engineers, who use it constantly for threefold reference: Directory of Radio Engineers, List of Firms Serving the Radio-Electronic Market, and Engineering Product Index.

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To SELL the Radio Industry, TELL the Radio Engineer.

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THE WILLSON CO., *Pacific States*, 412 W. 6th St., L. A. 14

ABC

I·R·E

WHERE TO LOOK IT UP

Product information in this Yearbook is grouped in basic engineering classifications. Under each firm, in the alphabetical file, we listed as many products as we were sure would interest engineers, for 2100 companies. (Part II) Use this Alphabetical List to find the line of items made by each firm.

Listings by Products are given in Part III for our advertisers. These listings are backed by product advertising to which a cross reference is shown under each firm, as well as sub-classification detail.

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M. C. Murdo Silver Co., 1240 Main St., Hartford 3, Conn.—23, 24, 38, 45, 52, 55, 65
A. C. Simmonds & Sons, 301 King St. E., Toronto, Ont., Can.—94
Simmonds Aerocessories, Inc., 105 White Plains Rd., Tarrytown, N.Y.—20
Simmons Fastener Corp., 1750 N. Broadway, Albany 1, N.Y.—27
Simplex Electric Products Co., 4515 12th Ave., Brooklyn 19, N.Y.—45, 52
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Simpson Electric Co., 5216 W. Kinzie St., Chicago 44, Ill.—38, 65
Mark Simpson Mfg. Co., Inc., 32-28 49th St., Long Island City 3, N.Y.—2, 39, 57
Ed Singer & Associates, Inc., 1722 W. Arcade Pl., Chicago 12, Ill.—42, 43, 48, 57
Sipp-Eastwood Corp., Keen & Summer Sts., Paterson, N.J.—35
Skydyne, Inc., River Rd., Port Jervis, N.Y.—8
Slater Electric Mfg. Co., Inc., 728 Atlantic Ave., Brooklyn 17, N.Y.—69
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Smerke & Morehouse, 1005 Arch Adams, Fort Worth 7, Texas—93
Melvin L. Smith Labs., 16 Field St., Kane, Pa.—18
Smith Meeker Engineering Co., 125 Barclay St., New York 7, N.Y.—93, 94, 95, 96, 2, 54, 55, 58
Smith Paper, Inc., 22 Eagle Ave., Lee, Mass.—30
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Societe Industrielle Alfa, 80 Rue De La Senne, Brussels, Belg.—94
Sola Electric Co., 4633 W. 16th St., Chicago 50, Ill.—66, 71
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Sondyna, A. G., Hedwigstrasse 25, Zurich, Switz.—11, 13, 38, 55, 65

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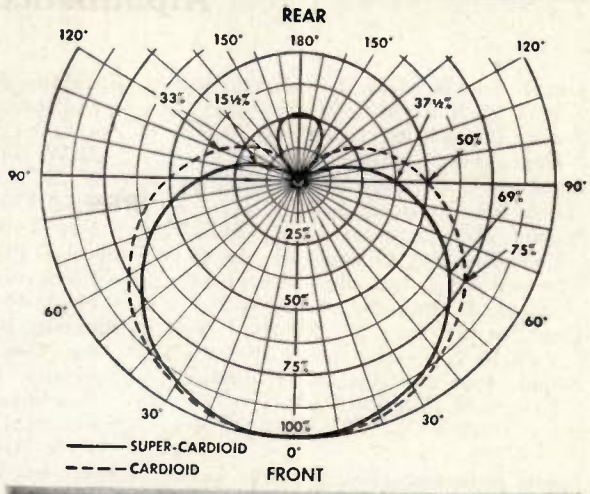
SEE PRODUCT INDEX PAGE 80A

Broadcast Radio Engineers who want this → specify this →



because the Shure Super-Cardioid Broadcast Dynamic Microphone has a super-cardioid pickup pattern which reduces the pickup of unwanted random noise energy by 73%. It is twice as unidirectional as the cardioid. In the super-cardioid pattern, the ratio of front-to-rear pickup is 14 to 1—in the cardioid, 7 to 1. There is a wide, useful pickup angle at the front of the microphone while the rear response is down of the order of 15 db over a broad range of frequencies. Reverberation energy pickup is decreased over two-thirds. The microphone can be placed close to the reflecting surfaces without objectionable effects if the rear side of the microphone is toward the reflecting surface.

The Shure "556" Dynamic Microphone has an Acousto-Mechanical circuit containing a single moving-coil element, which operates in conjunction with a high flux magnet and provides high efficiency and smooth peak-free response from 40 to 10,000 cycles. The super-cardioid pattern is achieved in a single unit, due to the "Uniphase" principle —a patented Shure development. The moving-coil unit is provided with a double wind-screen to permit quiet outdoor operation. As a precaution against mechanical vibration pickup, the unit is spring-suspended inside the microphone case, which in turn is floated in live rubber in the special Vibration Absorbing Unit, which eliminates reproduction of vibration transmitted through the stand. The microphone also has a standard ⅝"-27 thread which permits mounting on any Shure desk or floor stand. Adapters to other stands are obtainable when needed. Case dimensions: 4¼" high, 3¼" wide, 3½" deep. Shipping weight, 4½ lbs.

Patented by Shure Brothers, Inc.

SHURE SUPER-CARDIOID DYNAMIC MICROPHONE

MODEL "556"

Code: RUMUB • List price: $87.50

MULTI-IMPEDANCE SWITCH ON MODEL "556"

IMPEDANCE TABLE	OUTPUT LEVEL
L—35-50 ohms	56.1 db below 1 Milliwatt per 10 microbar signal
M—150-250 ohms	56.8 db below 1 Milliwatt for 10 microbar signal
H—High Impedance	55 db below 1 volt per microbar

SHURE BROTHERS, Inc.

MICROPHONES AND ACOUSTIC DEVICES

225 W. Huron Street Chicago 10, Illinois

CABLE ADDRESS: SHUREMICRO

Alphabetical Directory of Firms

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David Sonkin, 1775 Broadway, New York 19, N.Y.—94
Sonora Radio & Television Corp., 325 N. Hoyne Ave., Chicago 12, Ill.—55
Sonotone Corp., Saw Mill River Rd., Box 200, Elmsford, N.Y.—2, 34
Soreng Manufacturing Corp., 1901 N. Clybourn Ave., Chicago, Ill.—14, 64
Sorensen & Co., Inc., 375 Fairfield Ave., Stamford, Conn.—93, 20, 52, 66, 71
Ivan Sorvall, Inc., 210 5th Ave., New York 10, N.Y.—35
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Sound Devices Co., 160 E. 116th St., New York 29, N.Y.—57
Sound Embossers, Inc., P.O. 503 Times Sq. Sta., New York 18, N.Y.—57
Sound Equipment Corp. of Calif., 3903 San Fernando Rd., Glendale 4, Calif.—96, 2, 14, 20, 23, 29, 35, 36, 45, 52, 56, 57, 65, 71
Sound Projects Co., 2806 10 W. Harrison St., Chicago 12, Ill.—2, 5, 14, 48
The Soundscriber Corp., 82 Audubon St., New Haven, Conn.—57
Sparks Withington Co., E. Ganson St., Jackson, Mich.—14, 55, 66
Spartan School of Radio Eng., Municipal Airport, Tulsa, Okla.—98
Sparton of Canada, Ltd., Elm St., London, Ontario, Can.—55, 56
Spartan Radiocasting Co., 998 N. Church St., Spartanburg, S.C.—92
Spaulding Fibre Co., Inc., 310 Wheeler St., Tonawanda, N.Y.—30, 43, 47, 50
Speak-O-Phone Recording Equip. Co., 23 W. 60th St., New York 23, N.Y.—97, 57
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Special Products Co., P.O. 471, 9115 Brookville Rd., Silver Spring, Md.—9, 14, 20, 66
Specialty Battery Co., 212 E. Washington Ave., Madison 3, Wis.—6
Specialty Distributing Co., Inc., 425 Peachtree St., Atlanta 3—Ga.—94
Specialty Equipment & Machinery, 230 Park Ave., New York 17, N.Y.—94
Spectrum Engineers, Inc., 540 N. 63rd Philadelphia 31, Pa.—93, 96
Speedway Manufacturing Co., 1834 S. 52nd Ave., Cicero 50, Ill.—42
Speer Carbon Co., St. Mary's Pa.—27, 37, 71
Speer Resistor Corp., Theresia St., St. Marys, Pa.—12, 17, 61
Sperry Gyroscope Company, Div. of Sperry Corporation, Great Neck, L.I., N.Y.—1, 3, 4, 5, 9, 15, 24, 28, 38, 40, 42, 45, 54, 55, 60, 65, 66, 67, 68, 69
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Spruce Pine Mica Co., Spruce Pine, N.C.—30
Square Root Mfg. Corp., 901 Nepperhan Ave., Yonkers 3, N.Y.—20, 34, 38, 42, 48, 60
Stackpole Carbon Co., Tannery St., St. Marys, Pa.—17, 61, 64
Stallman of Ithaca, 123-131 S. Tioga St., Ithaca, N.Y.—94
Standard Arcturus Corp., Tube Div., 54 Clark St., Newark, N.J.—55, 58, 69
Standard Coil Products Co., 2329 N. Pulaski Rd., Chicago 39, Ill.—11, 14, 18, 66
Standard Crystal Co., 400 Armstrong Ave., Kansas City 7, Kan.—18
The Standard Electric Time Co., 89 Logan St., Springfield 2, Mass.—96, 31, 51, 52, 58
Standard Electrical Products Co., 400 Linden Ave., Dayton 3, Ohio—59, 66
Standard Insulation Co., 74 Paterson Ave. E., Rutherford, N.J.—30
Standard Locknut & Lockwasher Inc., 309-311 N. Capital, Indianapolis 4, Ind.—27
Standard Piezo Co., 127 Cedar St. Carlisle, Pa.—18
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Standard Pressed Steel Co., Box 596 Jenkintown, Pa.—27
The Standard Products Co., 19255 W. Davison Detroit 23, Mich.—43
Standard Radio & Electronic Products Co., 135 E. 2nd St., Dayton 2, Ohio—94
Standard Register Co., Albany & Campbell Sts., Dayton 1, Ohio—26
Standard Telephones & Cables, Ltd., Oakleigh Rd., New Southgate, London, Eng.—92
Standard Transformer Corp., Elston Ave. Chicago 18, Ill.—2, 14, 23, 52, 58, 66, 67, 71
Standard Varnish Works, 2600 Richmond Ter., Staten Island 3, N.Y.—33, 72
Standard Winding Co., 44-62 Johnes St., Newburgh, N.Y.—14
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Stanwyck Winding Co., 102 S. Lander St., Newburgh, N.Y.—3, 14, 17, 23, 45, 66
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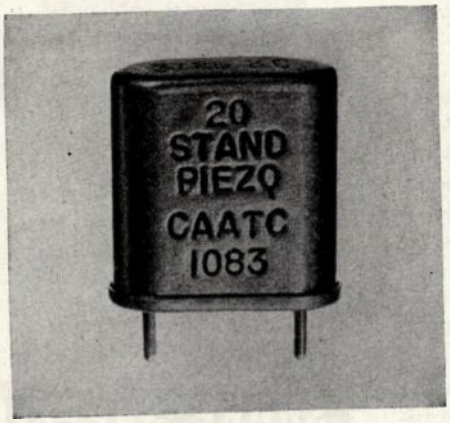
STANDARD CRYSTALS



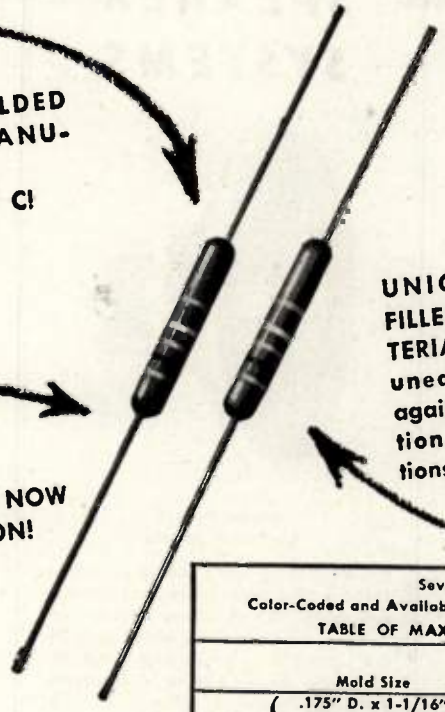
STANDARD'S
TYPE 20
for stability
1 to 75 MC

STANDARD PIEZO
COMPANY
127 CEDAR STREET, CARLISLE, PA.
Free catalog. Your frequency control problems solicited.

A QUIET REVOLUTION IN CAPACITOR DESIGN

THE SMALLEST MOLDED TUBULAR EVER MANUFACTURED!... and rated up to 125° C!

ACTUAL SIZE ILLUSTRATION TYPE 65P



UNIQUE, MINERAL-FILLED MOLDING MATERIAL! . . . Provides unequalled protection against moisture absorption even under conditions of extreme humidity!

A PROVEN PRODUCT NOW IN MASS PRODUCTION!

Seven Physical Sizes
Color-Coded and Available in 20%, 10% and 5% Decade Values
TABLE OF MAXIMUM NOMINAL CAPACITIES

	Mold Size	100V @ 125° C.	200V @ 85° C.*	400V @ 85° C.	600V @ 85° C.
65 P	.175" D. x 1-1/16"	.015	.01	.0068	.0022
	.195" D. x 1-1/16"	.022	.015	.01	.0033
	.250" D. x 1-1/16"	.047	.033	.022	.0068
	.375" D. x 1-1/16"	.15	.1	.068	—
75 P	.175" D. x ¾"	.0068	.0047	.0033	.001
	.200" D. x ¾"	.01	.0068	.0047	.0015
	.250" D. x ¾"	.022	.015	.01	.0033

* alternate rating 150V @ 125° C

NEW SPRAGUE MOLDED PROKARS*

. . . dependable capacitors for sub-miniature assemblies

SUB-MINIATURE PAPER CAPACITORS IN METAL CANS WITH HERMETIC, GLASS-TO-METAL SEAL

●

for the most severe applications

●

Yes, this little can houses a high quality hermetically sealed Paper Capacitor! Rated at 100 volts, D C Working, this .5 mfd. unit measures .4" x 1⅛". Presently being manufactured in quantity, variations of this sub-miniature type can be made to your specifications. Write for complete information about this and even smaller hermetically sealed units now in production as shown below.

These new molded Prokars were designed specifically to satisfy stringent military requirements. Types 65P & 75P are now in mass production and are available in a wide range of capacities—from .00047 mfd. to .15 mfd! Though higher in price than standard units, they easily justify the term "premium" in performance. Rated for —50° C to 125° C operation, these small but rugged units are ideally suited for any electrical or electronic application in which size, temperature, humidity and physical stress are dominant considerations.

Write for Engineering Bulletin No. 205 A

*T. M. Reg. U. S. Pat. Off.

SPRAGUE

SPRAGUE ELECTRIC COMPANY, NORTH ADAMS, MASS.

PIONEERS OF ELECTRIC AND ELECTRONIC PROGRESS

Alphabetical Directory of Firms

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Staver Mfg. Co., 33-21 85th St., Jackson Heights, N.Y.—27
Stavid Engineering, Inc., 40 Somerset St., Plainfield, N.J.—93, 96
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Stephens Mfg. Corp., 10416 National Blvd., Los Angeles 34, Calif.—93, 96, 2, 8, 23, 34, 57
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S. Sterling Co., 1125 E. Milwaukee Detroit 11, Mich.—93, 96, 5
The Sterling Varnish Co., Ohio River Blvd., Haysville, Pa.—33
Stevens-Arnold Co., 22 Elkins St., S. Boston 27, Mass.—59, 68
Stevens Walden, Inc., 475 Shrewsbury St., Worcester 4, Mass.—35
F. W. Stewart Mfg. Corp., 4311-13 Ravenswood Ave., Chicago 13, Ill.—9, 27
Stewart Warner Corp., 1826 Diversey Pkwy., Chicago 14, Ill.—55
J. Albert Stobbe, 30 Broad St., New York 4, N.Y.—93
Stoddart Aircraft Radio Co., 6644 Santa Monica Blvd., Hollywood 38, Calif.—65
Stokes Molded Products, Inc., Taylor & Webster Sts., Trenton 9, N.J.—43
Stromberg Carlson Co., 100 Carlson Rd., Rochester 3, N.Y.—92, 2, 8, 10, 31, 32, 34, 51, 55, 56, 57, 59, 64
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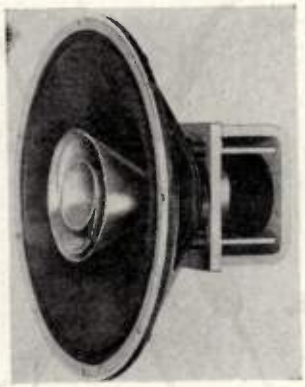
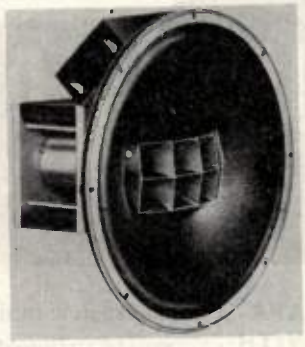
Surplus Materials Corp., P.O. Box 228, Stryker, Ohio—94, 37, 73

TRU-SONIC
2-Way SPEAKER SYSTEMS



Model P-52FR
Co-Spiral Speaker

Full 15 watts of power handling capacity. 15" Seamless molded curvilinear cone of new design. Two acoustic sections, one designed for reproducing lowest bass, and one section for extended high tones. Reproducing range is 40 to 14,000 cycles! Powerful Alnico 5 Magnet. Greatest electro-acoustic transfer efficiency and widest range of any speaker utilizing 1 voice coil. 90 Degrees of high frequency dispersion .....**Price $80.00**



Model P-52A
Coaxial Speaker

Combined in a single assembly are a Low-Frequency unit of the cone type, a High-Frequency unit of the multicellular type and the Dividing-Network. Ideal for AM and FM reception, broadcast station monitoring and sound-motion-picture reproduction ..**Price $205.00**

Normal trade discounts prevail on all Tru-Sonic products. Write for Bulletin 109 describing the complete line.

STEPHENS MFG. CORP.
10416 National Blvd.,
Los Angeles 34, Calif.

Surprenant Mfg. Co., 199 Washington St., Boston 7, Mass.—9, 30, 50, 73
Switchcraft, Inc., 1328 W. Halsted St., Chicago 22, Ill.—15, 31, 51, 64
Sylvania Electric Products, Inc., 500 5th Ave., New York 18, N.Y. and Emporium, Pa.—18, 55, 56, 57, 58, 65, 69
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Taffet Radio & Television Co., 786-8 Lydig Ave., Bronx 60, N.Y.—93, 94, 96, 55
The Takk Corp., 26 W. Market, Newark, Ohio—96, 1, 52, 58, 65
Talk-A-Phone Co., 1512 S. Pulaski Rd., Chicago 23, Ill.—2
Tartak Speakers, Inc., 3120 E. Pico Blvd., Los Angeles 23, Calif.—34
Haldun Taskin, 1020 N. Broadway, Milwaukee 3, Wis.—93
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Archer S. Taylor, P.O. Box 1479 Missoula, Mont.—93
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"TAB"

That's A Buy

GE RF Meter 1 or 5 Amp/½" B'C ea. $3.95
GE GALVO 2.5&25ma 0 center/3½" B'C.....$3.95
GE 2KW/1000ohmsV & RESISTOR.....$5.95
WSTGHSE 30VDC/2½" B' Cased $2.49
WST IND 0-100&100-0-100/200microma.....$3.95
WST 0-150VAC/2½" B'Cased.....$4.50
W.E. 200 or 500VDC/1000ohmsV/3½" B'C....$4.95
WESTON 4" TWINGALVO 10&40ma/.5% $12.95
SYNCH CLOCK MOTOR 1 RPM/115V/60cy $2.49
Synch CLOCK MTR 24RPM/10V/60cy 89¢@ .....10 for $7.50
DYNMTR 6Vin/out240V/100ma or 12&24Vin/ 500V/50ma: PM New Navy $3.49
DYN 28Vin/out540V/250ma USED LN* $2.50
DYN 12&24Vin/275V/110ma P' MAGNET ..$1.95
DYNMTR 28Vin/out250V/60 ma .....2 for $1.98
DYN 12&24Vin/220V/100ma & 440V/200ma .$5.95
DYN/24Vin/300V/260ma/150/10ma 14.5V/5A $4.95
PE94A Same as above Plus Filters&Start ...$9.95
GE GLYPTAL 1276 Cement GALLON $4.95
VOLTAGE REGULATOR RAYTHEON New 95-130V/60cy Out 115V/60W $10.95
V'REGULATOR SAME 198-242Vinpt/50 60cy Outpt 220V/500Watts/.5% Regltn $34.95
T17 MICROPHONE PUSH BUTTON & PLUG ..... .89

PRECISION RESISTORS for METERS BRIDGES, AMPLIFIERS ALL STANDARD MAKES

*½%	**5%	†10%	(Rest 1%)
2000**	4300**	5100**	12000**
30000**	84000**	150000**	220000**
245000**	250000	950000	1155

ABOVE SIZES 20¢ EA ASSTD.....10 FOR $.98

.116	89.8	580	2580	8500
.42	100	600	2600	9000
.5	105	612	2635	9445
.7	101	640	2700	9710
1.3	107	700	2860	10,000
1.75	113.1	733	2900	10,500
2	210	750	3000	12,000
3	121.2	800	3100	14,460*
4	125	900	3290	14,600
4.35	150	910	3384	15,000
5	160	1000	3500	15,000
5.025	165	1030	3730	17,000
6	170	1110	4000	17,000
7	182.4	1150	4300	18,000
7.5	200	1155	4440	19,000
7.8	209.4	1175	4444	20,000
7.9	230	1225	4500	20,520*
8	235	1250	4720	21,500
10	240	1260	4850	22,000
12	245.4	1322	4885	23,000
14.5	250	1350	4900	24,000
20	260	1500	5000	25,000
25	280	1510	5000	29,900
26	286	1600	5100	30,000
30	299	1640	5270	33,000
37	300	1650	5500	37,000
40	320	1800	5730	40,000
45	340	1830	6000	50,000
45.1	400	1865	6200	54,400*
49	418.3	1900	6300	60,000
50	426.9	2000	6500	65,000
55	440	2080	7000	68,000
56.7	452	2142	7500	75,000
60	480	2300	7700	80,000
71.4	487	2400	7950	84,000
75	500	2485	7950	90,000
80	520	2409	8000	91,000
81.4	540	2500	8250	95,000

ABOVE SIZES EACH 45¢.....TEN FOR $3.00

0.1 MEG	.16675	.25 MEG	.4 MEG	.6 MEG
.1	.175	.254	.402	.62
.12	.185	.265	.422	.654
.13	.201	.268	.458	.7
.135	.22	.294	.478	.75
.14	.229	.314	.5	.7613
.147	.24	.33	.57	.8
.147	.245	.3335	.575	.9
.15	.25	.3535		.95

ABOVE SIZES EACH 60¢.....TEN FOR $5.00

1 MEG	2	4	5	11.5
1.2	2.855	4.23	9.05	12.83
1.579	3	4.5	10	20
1.8	3.673			

ABOVE SIZES EACH 90¢.....TEN FOR $6.95

VICTOREEN VACUUM PRECISION RESISTORS

.83MEG, 1MEG, 1.5MEG, 2MEG, 3MEG 3.75MEG, ½ OF 1% ACCY HIVOLTS AT $1.00, TEN FOR..... $7.50
IRC NAVY PRECISION .5MEG, ½ OF 1% 1.69
IRC NAVY WW 2MEG, 1/5 OF 1% HV.... 4.95

TOBE 30Amp/250VACDC Filterette USN ...$3.95
FUSE HOLDER 1075 Littlefuse 20¢@ 10 for $1.75
FUSE HLDR 4AG/HCM-BUSS 30¢ @ 10 for $2.50
FUSES 250ma/3AG Littlefuse 10¢@ .10 for $ .79
FUSES 200ma/8AG Littlefuse 10¢@ ..10 for $ .79
FUSES 4Amp/3AG 25 for 50¢ .....60 for $1.00
FUSES Grasshopper Phone 3 for 25¢ ..15 for $1.00
HEINEMAN CIRCUIT BREAKERS 10ma,3, 5&10,15,20,30,40,80,100,180Amps ea.$1.95 .....10 for $18.00
SQ'D & KLIXON & CH 5,10,20,25,33,35,60,70 Amps 98¢@ .....10 for $8.00
AUDIO BAND PASS FILTERS 60,90&150 totally encased shielded ea.$1.95 ....3 for $4.50
EXT CORD Hvy Duty SP/16' M&F plugs.....98¢
COAX CNNCTRS PL259 or SO239@35¢PR.....63¢
SWITCH SPDT 15000V 5Amp IS21 .....$2.95
TIME DELAY RELAY 115V/10Amp/ACDC...$1.49
DECADE SWITCH 5 POINT.....2 for 98¢

7500V or 15000V'Doubler/35ma $15.95
10800VCT or 21600V'Doubler/95ma 19.95
3000V/10ma $4.50; 4000V/10ma 5.50
1320V/375VCT/110ma, 5V/3A, 2.5V/3.25A & 6.3V/2.75A Cased HV Insltd 7.95
1350VCT/150ma, 6.3V/5A, 5V/2A UTC 6.95
640VCT & 1250V/250ma $4.95 .....2 for 8.95
500VCT/60ma, 6.3V/4A Hmtclly Cased 1.29
1100VCT/212 ma $5.95; 10V/8A/12KV 6.95
5V/115Amp 9.95
1000VCT/45ma; 795VCT/80ma; 3x5V/3A & 6.3VCT/1A, 6.3VCT/.3A HV/Hmtclly Csd .. 4.95
7.5VCT/6.5A, 6.3VCT/3A 3.75
700VCT/150ma; 10V/3.25A, 2.5V/10 & 6.3VCT/2A, 5V/3A HV Insltd CASED 5.50
115 or 230V/10Amp/2KW Transformer 19.95
115 or 230V/8Amp/1.8KW Auto Transf. 14.95
110 or 220 or 440V/190W 4.50
2.5V/1.75A, 4V/6A/20KV Cased 5.50
TRANSFORMER ONLY for Two 866A's 3.95
872A's COMBINATION TRANS. Sockets ... 12.00
872A TRANSFORMER 115 60cy 6.95
866A COMBINATION Tubes, Sockets 5.95
720/20ma, 5V/3A, 6.3V/3A CASED 2.95
220 Vin/7.5V/24A/HV CASED 5.95
220Vinpt, 10VCT/5A or 110Vinpt/5VCT/5A .. 2.95
570VCT/180ma, 5V/3A, 12V/4A CSD 3.95
510VCT/125ma, 5V/2A, 6V/4A CSD 3.25
TRIPLETT TUBE CHECKER TRANSF 2.95
220 to 440V-or-110 to 220V/250Watt 4.95
AUTOTRAN 6V/2A, 150V/1.6A, 35V/1.2A .. 3.95
SEL RECT TR/115V/60c, 42.5V/2A 4.25

CHOKES

15-29Hy/150ma SWINGING CASED 2.95
12Hy/300ma $3.95, 3Hy/40ma .....3 for 1.00
15hy/400ma or 20Hy/300ma/15KVins 7.95
3Hy/400ma; 15KV $2.75; 8Hy/200ma ....2 for 2.89
8Hy/150ma New UTC Cracked T'BD ....2 for 1.98
0.5Hy/100ma/4 for 98¢ 50hy/150ma 1.95
8Hy/110ma $1.29; 12 Hy/275ma 3.29

THIS AD REPRESENTS A FEW OF THE ITEMS WHICH

"TAB"

CARRIES IN STOCK. CALL WIRE OR WRITE

"TAB"

FOR ANY AND ALL RADIO ELECTRICAL AND ELECTRONIC REQUIREMENTS FROM ONE TO A CARLOAD CALL "TAB" N.Y.C. WORTH 2-7230

CONDENSER OIL RATED WVDC
CD TAPPED 2 & .5 & .3mfd/200V ..15 for $ 1.50
CD 2mfd/330VAC/1000WVDC .....5 for 1.98
5mfd/600WVDC/220VAC & brackets ..2 for 1.49
7mfd/600V 89¢; 10mfd/600V 1.25
3.3mfd/225VAC $1.25; 4mfd/600V ..... .49
20mfd/600V/$2.50; 4mf/330AC/1000V 1.39
15mfd/330VAC/1000V/$3; 2mfd/2000V 2.25
3mfd/2000V/$3; 4mfd/3000V 5.00
2mfd/5000V/$10; 4mfd/5000V 15.00
2mfd/12500V/$25; 1mfd/25000V 75.00
1mfd/4000V/$3.75; .00025mfd/25KV 4.95
2x1mfd/400V/12 for $1; 3x.1mfd/400V/10 .. 1.00
1mfd/400V/12 for $1; 2mfd/400V/5 for 1.00
.5mfd/500V/10 for $1; 1mfd/500V/8 for 1.00
.05mfd/600V/30 for $1; 2x.05mfd/600V/25 for 1.00
3x.05mfd/600V/15 for $1; 3x.22mfd/600V/12 .1mfd/600V/10 for $1; 2x.1mfd/600V/8 for . 1.00
3x.1mfd/600V/8 for $1; 2x.25mfd/600V/6 for 1.00
3x.25mfd/600V/5 for $1; .5mfd/600V/8 for . 1.00
2x.5mfd/600V/6 for $1; 1.22mfd/600/8 for .. 1.00
.1mfd/1000V/4 for $1; .25mfd1000V/4 for .. 1.20
WE D168435 ½microsecond .555ohms 30MMF 4.50
Millen 1Microsecond delay line 2.95
X BAND WAVEMTR 9290-9470 Mc's 16.95
723AB OSC MTG ON 3CM Waveguide, ATTNTR Outpt Tsectn, Thermstr, Xtal detector MTG bead Thermstr mnt & 2nd attntr PO/TS13 ..... 19.95
SAME MTG & X BAND WAVEMTR 29.95
723AB OCS MTG & TRANSITION TO 2type N COAX FITTINGS (RG9UorDBL Silver Braid) 4.95
3CM ECHO BOX & XTAL DET MTG in ½x1 Waveguide Transition 5.95

Meter Rectifier Dual Bridge ..... .98
RMI3G RemoteTelephonew/tubes,mtr.hndset $14.95
WIRE $10/1000ft, $12.95; $18/1000ft $4.50
300 ohm TWINEX 100ft/2.50; 5000ft. $100.00
WILLARD STORAGE BATTERY PLASTIC NONSPIL-BB54/ER27-2/2V/27A $1.98
S'BAT BB206U/ERII-2/2V/11a $1.49
S'BAT BB54/BR-18/36Volt designed for Portable Radio Equip-Guided missiles $3.98
BURGESS 3V/F2 BP/1947 date .....5 for $1.00
Selenium 300V/40ma Rectifier F'wave .....$ .98
Selenium 403D2625/100ma Set Rect .....$ .95

"TAB" MONEY BACK GUARANTEE, $5 MIN. ORDER F.O.B. N.Y.C. ADD SHIPPING CHARGES & 25% DEPOSIT.

"TAB" X'DIODE & FUSE HOLDER ..4 for $1.00
CRYSTAL DIODES IN21A, 22, 23A, 25, 26 NEW boxed lead sealed G'Insp $1 .....12 for $1.00
IN23B X'DIODE $2.00 .....10 for $17.50
THERMISTOR WE/D168391 DISC $2..3 for $5.00
THERMISTOR WE/D170396 BEAD 90¢.3 for $2.50
THERMISTOR WE/IC VACUUM BULB 90¢, ...3 for $2.50
MICROSWITCH NEW SPST .....2 for 39¢
MICROSWITCH SPDT 40¢.....10 for $4.00
MICROSWITCH LEAF or ROLLER 85¢.2 for $1.50
MICROSWITCH PLUNGER TYPE 85¢..2 for $1.50
MICROSW INDUSTRIAL CASED $1 ..2 for $1.75
SWITCHETTE GE 49¢.....5 for $2.00
TOGGLE SWITCH SPST 25c.....10 for $2.15
TOGGLE SWITCH SPDT 29¢.....10 for $2.50
TOGGLE SWITCH SPDT/off pos 45¢..10 for $4.00
TOGGLE SWITCH SPST/15A/UL 60¢..10 for $3.65
TOGGLE SWITCH 3PDT/6A 98¢.....10 for $7.95
TOGGLE SW DPST 25A/125V $1.25 ..10 for $10.00
PUSH BUT SW DPST/6A/125V 45¢ ..10 for $4.00
PUSH BUT SW DPST/12A/125V 85¢..10 for $7.95
SW DPDT/60A/600V, 250A/125V $2.49 2 for $4.49
FED ANTICAP SW 1425 DPDT $1.35..2 for $2.49
ROTARY SW 8pos/150V/8Amp $1.85 10 for $15.00
ROTARY SWITCH 3PDT Ceramic 49¢..5 for $1.98
GE Switch Door Interlock 89¢.....2 for $1.50

PRECISION RESISTORS for METERS

0A4G	$ .90	25Z5	$ .70	9001	$ .49
OZ4	1.20	35Z5	.61	9002	.59
1B3/8016	2.00	35L6	.74	9003	.49
1E7G	.98	50L6	.72	9004	.49
1L4	.98	80	.52	9006	.49
1P5G	.79	83V	1.25	2AP1	1.95
2C40	.73	OC3/VR105	.74	2AP1A	4.95
2D21	.98	OC3/VR150	.74	3AP1	3.25
2X2	.49	211	.79	3BP1	1.98
2V3G	.98	250TH	18.00	3DP1	2.75
3A4	.75	250TL	18.00	3FP7	2.98
3B7/1291	.95	304TH	3.95	3GP1	3.95
3D6/1299	.95	304TL	2.49	3JP12	3.95
3S4	.90	307A	3.75	5AP1	2.75
5R4G	1.00	393	5.95	5BP1	3.75
5T4	1.53	446A	1.98	5BP4	3.75
5U4G	.69	450TH	25.00	5CP1	3.75
5W4	.98	450TL	29.95	5FP7	3.95
5Y3G	.53	WL531	9.95	5HP1	3.95
5V4G	1.00	703A	4.95	7BP7/1813	3.95
5Z3	.80	717A	.89	9JP1	3.95
5Z4	1.00	723	2.95	12DP7	5.95
6AB7	.98	723AB	4.95	1B27	2.95
6AC7	.72	725	4.95	1P24	2.95
6AG5	.97	803	7.95	2E22	1.50
6AG7	.98	804	8.95	10Y	.89
6AJ5	.98	805	4.95	15E	1.49
6AK5	.81	807	1.49	2C26	.39
6B4G	1.29	808	1.95	2C34/RK34	.49
6B8G	.98	810	5.75	3B24	.74
6C4	.39	811	2.49	3C23	4.95
6C5	.75	813	8.90	24G/3C24	.67
6C6	.73	814	2.98	2J21	12.75
6C8G	.98	815	3.95	2J32	16.95
6D4	.98	816	1.15	2J55	18.00
6D6	.74	826	1.45	2K29	4.95
6E5	.98	828	10.00	HK24/3C24	.81
6F6/1613	.69	829B/3E29	3.90	631P1/SN4	3.75
6F8	1.20	832	2.25	CK1005	.30
6G5/6H5	.98	836	1.10	C6J	4.95
6G6	1.08	837	2.25	F127A	12.00
6H6G	.48	845	4.95	T200	12.00
6H6M	.68	860	2.49	4J47	35.00
6J4	1.98	861	9.00	RX215	9.95
6J5	.72	864	1.00	CE215	5.95
6J6	.81	865	1.00	CE206	3.95
6J7	.88	868	1.00	FG27A	4.95
6K5G	1.10	872A	2.20	FG104	14.95
6K7	.78	884	1.10	FG105	16.95
6K8	1.20	922	1.49	5D21	10.00
6L6	1.24	923	1.39	TUNGAR*	
6L7	1.16	931A	249	20X672*	2.95
6N7	1.23	954	.49	289881*	2.50
6S7	1.20	955	.49	MAZDA PL**	
6SA7G	.98	956	.49	44**Box	.40
6SC7	.84	957	.49	47**Box	.50
6SG7	.95	958A	.49	49**Box	.60
6SH7	$..38	1613	$ .69	86**Box	1.40
6SJ7	.79	1614	1.50	SOCKETS	
6SL7	1.00	1616	2.75	Acorn .6 for	1.00
6SN7	.91	1619	.39	866	.24
6SN7GT	.69	1622	1.49	872/211	.49
6SQ7	.89	1624	.79	803/304	.90
6SS7	.74	1625	.39	813	.44
6V6GT	.98	1626	.45	829/832	.25
6U7G	.78	1629	1.39	807	.24
6X5	.87	1635	1.90	705/715	.69
6Y6G	.88	1641	.84	Maginal	.49
12A6	.29	2050	1.18	Diheptal	.69
12AH7	1.00	2051	.88	2X2HV	.30
12SA7	.79	7193	.49	TUBES GTD	
12SH7	.88	8005	4.25	except open Fil.	
12SK7	.88	8012	3.95	& breakage	

KIT SILVER & MICA CONDSRS.....50 for $2.00
KIT SILVER MICA CONDSRS.....30 for $1.50
KIT CONTROLS 50-2mg AB/POTS....10 for $2.00
KIT RESISTORS ½&1W/50to2meg...100 for $2.50
KIT VITREOUS WW RESISTORS....20 for $1.00
KIT SOCKETS 25ASSTD(8-7-5-4P).....$2.49
KIT POWER RHEOS. 25&50Watt.....6 for $3.49
KIT ROTARY SWITCHES ASSTD ....6 for $1.75
KIT G&P Tube Caps ½/3/8&9/16 ....50 for $1.49
KIT COIL FORMS Thd'd small HF....50 for $1.00
KIT IRON CORE SLUG & SCREW....50 for $1.00
KIT ELASTIC STOP NUTS ASST.....50 for $1.00
KIT LUGS LARGE RADIO Elec Type.100 for $1.00
KIT LUGS SMALL RADIO TYPE....300 for $1.00
KIT KNORS ASSTD with Insert.....25 for $1.25
KIT MOTOR BRUSHES ASSTD.....100 for $1.00
KIT SPAGHETTI Sleeving ASSTD ....75 for $1.00
KIT CERAMICON CONDSRS ASSTD..15 for $1.00
KIT FUSES ASSTD BUSS&LF.....300 for $1.95
KIT GROMMET Rubber Radio Asst..100 for $1.00

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DATA...

★ What is *standard* and what can be made *special* by way of resistors, controls and resistance devices, is presented in these handy Clarostat Engineering Bulletins. Also in condensed form in the new Clarostat Wall Chart.

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★ Write for our new Clarostat Wall Chart, on your business stationery. Write for those bulletins of interest to you, stating Bulletin Nos. And don't hesitate to submit your resistor or control problems and requirements.

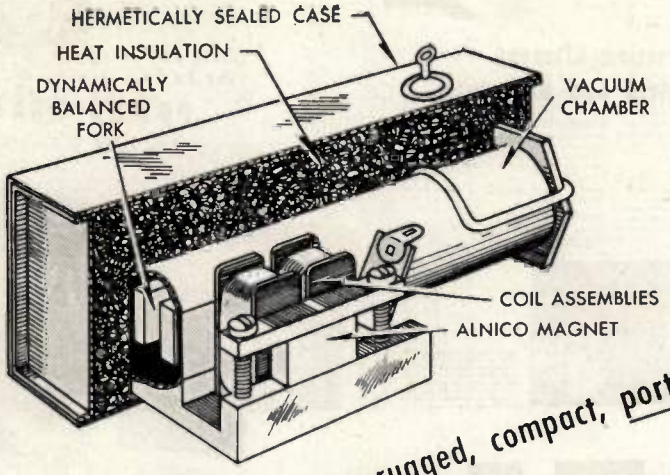
CLAROSTAT

Controls and Resistors

CLAROSTAT MFG. CO., Inc., 285-7 N. 6th ST., BROOKLYN, N. Y.

Export Division: 25 WARREN STREET, NEW YORK 7, N. Y.

Cable Address: SIMONTRICE, NEW YORK



Here's laboratory precision in a rugged, compact, portable unit!

PRECISION STANDARD FORK OSCILLATOR

To meet the exacting demands for constant speed in portable facsimile equipment, Times Facsimile Corporation has developed a fork-controlled oscillator which its engineers believe surpasses any of its kind on the market.

Temperature compensated fork sealed in a vacuum. *No oven necessary!*

Frequency Stability—one part in five million per degree Centigrade, from 0°C. to +65°C.

Insensitive to changes in barometric pressure, humidity, and line voltage 90-130v. 50-70 cycles.

Oscillators for any specified frequency between 60 and 4,000 CPS—now available in limited quantities complete with power supply. Cabinet model (shown at left) is 14" long x 6" wide x 8" high. Panel model unit is 19" wide x 8½" high x 6" deep. Price range from $300-$500.

TIMES FACSIMILE CORPORATION

229 West 43rd Street, New York 18, N. Y.

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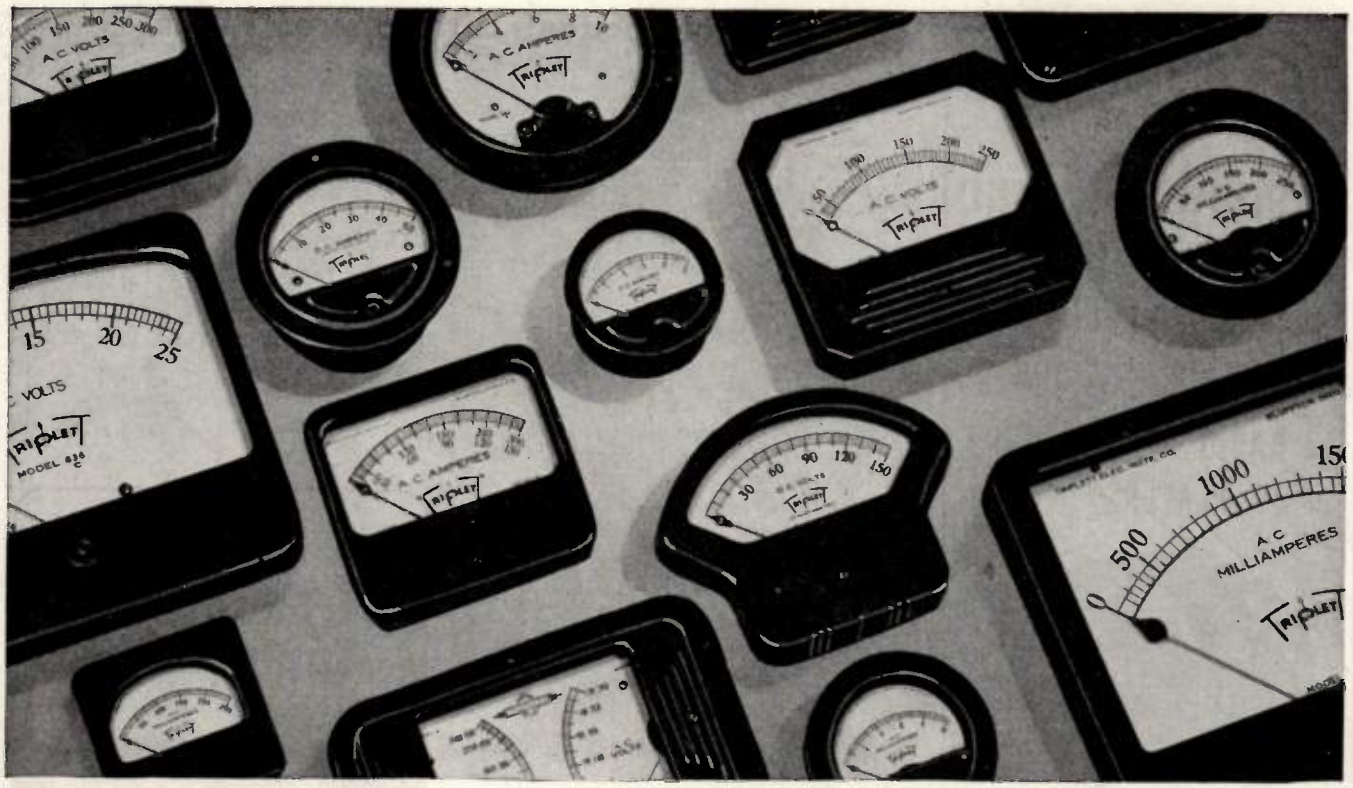

A size, type, style "Triplett-made" for every need

"Half a Century of Instrument Know-How Is Built into These Fine Electrical Meters"
More than 30 case sizes and styles in standard stock.

No matter how specialized your requirements may seem, the chances are that Triplett has already engineered and tooled up for a design so nearly akin that a few inexpensive changes or additions will suffice.

Triplett . . . . A Self Contained Electrical Instrument Factory . . . From screw machine parts to plastic moldings, from moving elements to dial faces, all are fabricated in Triplett's modern air-conditioned factory. Equipped with special humidity and dust controls in assembly rooms. This self-contained factory means one overall profit markup with better quality control and consequent savings to you.

Complete meter satisfaction is yours in performance, appearance, and dependability. Let Triplett add lustre and give precision performance to your instrument panel.

"Complete Engineering Service" . . . Triplett maintains a field engineering staff available on short notice. These engineers are ready to help you with your problems and to bring you the latest practices in instrumentation from the Triplett laboratories. Complete facilities for shock, vibration and humidity testing as required under JAN specs.

Miniatures through 7"
Round or Square

A.C., D.C.,
R.F., Rectifier or Dynamometer

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In Canada: Triplett Instruments of Canada, Georgetown, Ontario

Precision first...to Last

TRIPLETT

V-M *Automatic* RECORD CHANGERS

- ORIGINAL EQUIPMENT
- REPLACEMENT UNITS
- RADIO PLUG-IN PLAYERS

V-M MODEL 402

With fine radio-phonograph combinations why be satisfied with anything but the finest in record players. V-M Model 402 incorporates the field-proven features of the V-M 400 Line, on a base plate designed to complement any radio set.

V-M MODEL 400-c

When considering the purchase of a record changer for that new radio-phonograph still on the board—give a thought to the finest in record changers and investigate the V-M 400 Line featuring:

Positive Intermix • Automatic Shut-off • Single Knob Control • Minimum Mounting Space • Positive Record Protection.

For further information on the complete V-M Line write . . .

V-M CORPORATION

BENTON HARBOR, MICHIGAN

Alphabetical Directory of Firms

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Varflex Corp., 305 N. Jay St., Rome, N.Y.—30, 50
Vector Electronic Co., 738 E. 3rd St., Los Angeles 13, Calif.—71
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Vertrod Corp., 17 Williams Ave., Brooklyn 7, N.Y.—3, 4
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Vickers, Inc., Vickers Electric Div., 2160 Imperial Highway, E. Segundo, Calif.—20, 58
Victor Insulators, Inc., Maple Ave., Victor, N.Y.—12
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Victory Mfg. Co., 1722 W. Arcade Pl., Chicago 12, Ill.—55
Viewtone Television & Radio Corp., 81 Willoughby St., Brooklyn 1, N.Y.—55
The Vitamite Co., 227 W. 64th St., New York 23, N.Y.—6
The Vitroseal Corp., 918 Oak St., Wyoming Cincinnati 15, Ohio—15, 30
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Voight Patents, Ltd., 15 Silverdale, London, S.E. 26, Eng.—34
Vokar Corp., 7300 Huron River Dr., Dexter, Mich.—70
Vulcan Electric Co., 88 Holten St., Danvers 10, Mass.—35

Waage Electric, Inc., 54 Park Pl., New York 7, N.Y.—35
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A Valpey Specialty:
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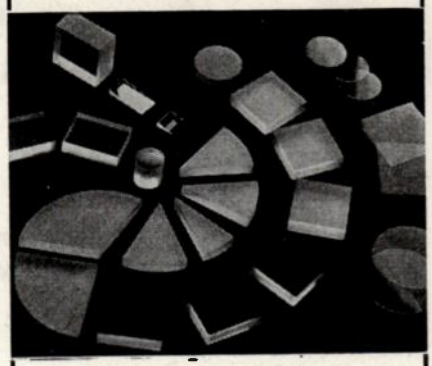
ULTRASONIC Applications



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Wedemeyer Electronic Supply Co., 215 N. 4th Ave., Ann Arbor, Mich.—94

W. M. Welch, Scientific Co., 1515 Sedgwick St., Dept. K, Chicago 10, Ill.—38, 53, 65, 67
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WELCH
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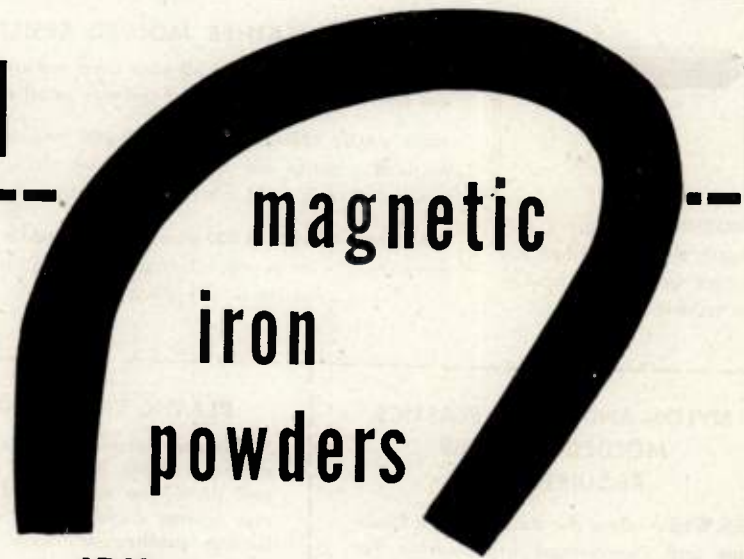

IRN magnetic iron powders (Mepham hydrogen reduced) are available in 10 different types for high-frequency cores, core material, tele-communication and magnetic applications. . . . All are described in a revised technical bulletin, containing 28 pages of comprehensive data, including performance graphs and engineering reference material of value to designers, manufacturers and users. Your copy of this bulletin will be mailed on request.

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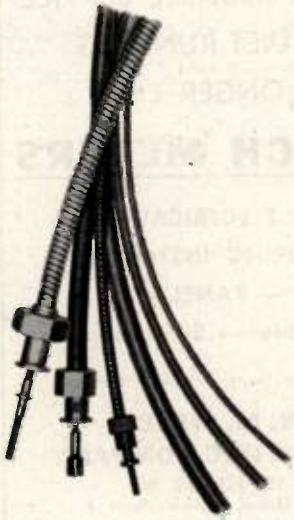

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Of particular interest to all who need resistors with inherent *low noise level* and *good stability* in all climates.

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MOLDED RESISTORS • PLASTIC SPECIALTIES • CONTRACT PLASTICS MOLDING

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Alphabetical Directory of Firms

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West Coast Electronics Co., 1601 S. Burlington Ave., Los Angeles 6, Calif.—3, 14, 40, 48, 55, 66, 67

Westchester Electronic Supply Co., 333 Mamaroneck Ave., White Plains, N.Y.—94

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Western Electronic Enterprises, 3348 W. Compton Blvd., Gardena, Calif.—94

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Western Lithograph Co., 600 E. 2nd St., Los Angeles 54, Calif.—35

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S. B. Whistler & Sons, Inc., 752-756 Military Rd., Buffalo 17, N.Y.—35

Whitaker Cable Corp., 1301 Burlington N. Kansas City 16, Mo.—9

S. S. White Industrial Div., S. S. White Dental Mfg. Co., 10 E. 40th St., New York 16, N.Y.—27, 43, 61

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White Equipment Co., Box 6092, 910 E. 63rd, Indianapolis, Ind.—18

Whitehead Stamping Co., 1638 W. Lafayette Blvd., Detroit 16, Mich.—27

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H. L. Yoh Co., Inc., 321 Chestnut St., Philadelphia 6, Pa.—91, 93

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Zenith Radio Corp., 6001 Dickens Ave., Chicago, Ill.—48, 55
Zephyr Products Co., 160 E. 116th St., New York 29, N.Y.—57
Zophar Mills, Inc., 112 26th St., Brooklyn 32, N.Y.—72
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Paul Zottu, 85 Commercial St., Cambridge 42, Mass.—93

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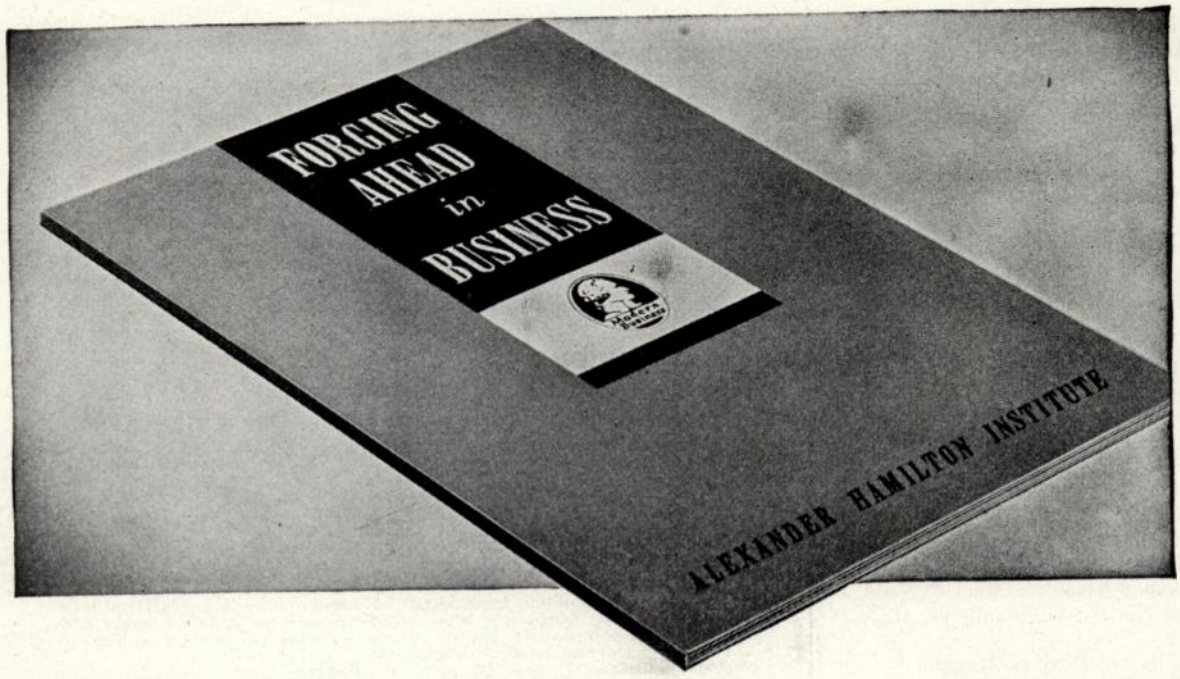

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The Directory Sections

How to use our Alphabetical and Product Directories

Part 2

The 1948 I.R.E. Yearbook contains three parts. Part 1 is the Institute of Radio Engineers Membership List, actually the largest published compilation of names of radio and electronic engineers. Part 2 (pages 1A to 96A) is an alphabetical directory of over 2100 firms serving or manufacturing for the radio-electronics industry. This index gives the firm name and address; and code numbers indicating 78 classifications of services, equipment, instruments and component parts as shown in the table to the right.

The completeness of this list depended upon information voluntarily supplied us. Our most vigorous efforts may not have made it complete. We will welcome additions and suggestions for the 1949 edition.

Part 3

Throughout Parts 2 and 3 are shown advertisements of firms which have seen in this useful Yearbook an opportunity to provide you with specific product data. These sponsoring companies have made it financially possible to provide a really comprehensive Yearbook to I.R.E. members. Their names are shown in bold type in the alphabetical list (Part 2) with cross reference to the page of their advertisements. In further appreciation for their support is the helpful index to their products which is Part 3, pages 97A-132A.

To find the advertisers of a given product, let us say "Vacuum Tubes," look this product up in the table to the right and you will see it is classification #69. Turn to this classification in Part 3. To find all firms known to us as making this product, scan the alphabetical list for those showing #69 in the products code. To locate a particular advertiser's ad, turn to page 132A to the Index to Advertisers.

Please submit all changes, corrections, additions and classification questions to Wm. C. Copp, c/o Proceedings of the I.R.E., 303 West 42nd St., New York 18, N.Y.

Key to Product Code and Product Index

Code Key	Product	Listings Page
1.	Aircraft & Airport Radio Equip.	98A
2.	Amplifiers, Audio Frequency	98A
3.	Antennas, all types	98A
4.	Antenna Phasing Equip. & Accs.	100A
5.	Attenuators	100A
6.	Batteries	100A
7.	Blowers & Cooling Fans	100A
91.	Books & Book Publishers	126A
8.	Cabinets, Wooden	100A
9.	Cables	100A
10.	Capacitors, Fixed	102A
11.	Capacitors, Variable	102A
12.	Ceramics	102A
13.	Chassis & Relay Rack Cabinets, Metal	102A
14.	Coils	102A
15.	Connectors	104A
93.	Consulting Engineers	128A
16.	Converters	104A
17.	Core Materials	104A
18.	Crystals	104A
94.	Distributors & Jobbers	130A
19.	Drafting Equipment & Supplies	106A
20.	Electronic Control Equip.	106A
21.	Equalizers	106A
22.	Facsimile Equipment	106A
23.	Filters	106A
24.	Frequency Meas. Equip.	108A
95.	Frequency Measuring & Monitoring	130A
25.	Fuses & Fuse Holders	108A
26.	Graphic Recorders	108A
27.	Hardware	108A
28.	Induction Heating Equip.	108A
29.	Inductors	108A
30.	Insulation	108A
31.	Jacks & Jack Fields	110A
32.	Keys	110A
96.	Laboratories & Custom Builders	130A
33.	Lacquers	110A
34.	Loudspeakers & Headphones	110A
35.	Machinery, Fixtures & Tools for Radio-Electronic Mfg.	110A
36.	Magnets	110A
37.	Metals	110A
38.	Meters	110A
39.	Microphones	112A
40.	Monitoring Equipment	112A
41.	Motor Generators	112A
42.	Motors, Very Small	112A
43.	Moulded Products & Moulding Services	112A
44.	Optical Systems, Mirrors, Screens & Accessories	114A
45.	Oscillators	114A
46.	Oscillographs & Accessories	114A
47.	Panels	114A
48.	Phonograph & Transcription Pickups	114A
49.	Pilot Lights & Assemblies	114A
50.	Plastics	114A
51.	Plugs	116A
52.	Power Supplies	116A
53.	Pumps, Vacuum	116A
54.	Radar Equipment & Associated Apparatus	116A
55.	Radio Receivers	116A
56.	Record Changers	117A
57.	Recording Equip. & Supp.	117A
58.	Rectifiers	117A
59.	Relays	117A
60.	Remote Controlling Equip.	117A
61.	Resistors	118A
62.	Sockets	118A
63.	Solder	118A
64.	Switches	118A
65.	Testing & Measuring Equip.	120A
66.	Transformers	120A
67.	Transmitters	122A
68.	Ultra-High Frequency Equipment & Accessories	122A
69.	Vacuum Tubes	122A
70.	Vibrators, Power Supply	124A
71.	Voltage Regulators	124A
72.	Waxes & Sealing Compounds	124A
73.	Wire	124A

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Index to Advertisers 132A

Index to Product Classes 1A, 80A, 88A, 93A, 97A

Product Classifications 102A

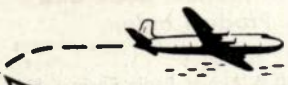
Product Listings start 98A

Part I, IRE Membership

Part II, Companies 1-96A

Part III, Products 97A

Aircraft Radio Corporation



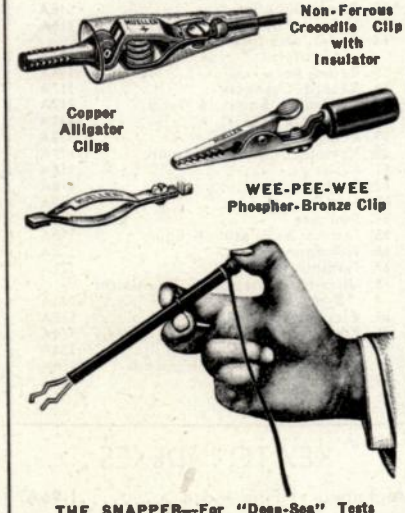
Quality
AIRBORNE EQUIPMENT

TWO WAY VHF
OMNI-DIRECTIONAL RANGES
RUNWAY LOCALIZERS
VISUAL-AURAL RANGES
GCA VOICE RECEPTION

VHF ARC & LF

Aircraft Radio
CORPORATION
Boonton, New Jersey
DEPENDABLE SINCE 1928

NEW Mueller CLIPS
The Only Complete Line
A Clip for Every Purpose



Mueller clips are offered in a great variety of types and sizes—insulated and uninsulated.

SEND FOR SAMPLES & CATALOG 1603
CLIP SPECIALISTS SINCE 1908

Mueller Electric Co.
1603 E. 31st St. Cleveland 14, Ohio

PRODUCT INDEX

1. AIRCRAFT & AIRPORT RADIO EQUIPMENT

Aircraft Radio Corp., Boonton, N.J.
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Bendix Aviation Corp., Pacific Division, 11600 Sherman Way, North Hollywood, Calif.
See advertisement on page 14A
Chatham Electronics Corp., 475 Washington St., Newark 2, N.J.
See advertisement on page 115A
Collins Radio Co., 855—35th St N.E., Cedar Rapids, Iowa
See advertisement on pages 22, 23A
The Daven Co., 191 Central Ave., Newark 4, N.J.
See advertisement on page 27A
Federal Telephone & Radio Corp., 100 Kingsland Rd., Clifton, N.J.
See advertisement on page 45A
Insuline Corp. of America, 36-02 35th Ave., Long Island City 1, N.Y.
See advertisement on page 52A
Lavoie Laboratories, Matawan-Freehold Rd., Morganville, N.J.
See advertisement on page 99A
George J. Maki, Box 222, Moraga, Calif.
See advertisement on page 128A
Measurements Corp., Boonton, N.J.
See advertisement on page 63A
Panoramic Radio Corp., 92 Gold St., New York 7, N.Y.
See advertisement on page 69A
Radio Receptor Co., Inc., 251 West 19th St., New York 11, N.Y.
See advertisement on page 76A
Sherron Electronics Co., Division of Sherron Metallic Corp., 1201 Flushing Ave., Brooklyn 6, N.Y.
See advertisement on page 5A
Sperry Gyroscope Co., Div. of the Sperry Corp., Great Neck, L.I., N.Y.
See advertisement on page 25A
United Transformer Corp., 150 Varick St., New York 13, N.Y.
See advertisement on page 13A
Western Electric Co., 195 Broadway, New York 7, N.Y.
See advertisement on page 2A, 3A

2. AMPLIFIERS, AUDIO FREQUENCY

Arlington Electric Products Inc., 18 West 25th St., New York 10, N.Y.
See advertisement on page 106A
Ballantine Laboratories, Inc., Boonton, N.J.,
See advertisement on page 12A
Barker & Williamson, Inc., 237 Fairfield Ave., Upper Darby, Pa.
See advertisement on page 101A
Chatham Electronics Corp., 475 Washington St., Newark 2, N.J.
See advertisement on page 115A
Collins Radio Co., 855 35th St., N.E., Cedar Rapids, Iowa
See advertisement on page 22A, 23A
Ferranti Electric, Inc., 30 Rockefeller Plaza, New York 20, N.Y.
See advertisement on page 77A
Freed Transformer Co., Inc., 78 Spring St., New York 12, N.Y.
See advertisement on page 48A
Furst Electronics, North Ave. and Halsted St., Chicago 22, Ill.
See advertisement on page 38A
General Radio Co., 275 Massachusetts Ave., Cambridge 39, Mass.
See advertisement on page 41A
Hewlett-Packard Co., 395 Page Mill Rd., Palo Alto, Calif.
See advertisement on page 10A, 11A
Lavoie Laboratories, Matawan-Freehold Rd., Morganville, N.J.
See advertisement on page 99A
Machlett Laboratories, Inc., 1063 Hope St., Springdale, Conn.
See advertisement on page 123A
Northern Radio Co., Inc., 143 West 22nd St., New York 11, N.Y.
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Presto Recording Corp., Paramus, N.J.
See advertisement on page 70A, 71A
Radio Receptor Co., Inc., 251 West 19th St., New York 11, N.Y.
See advertisement on page 76A
Hermon Hosmer Scott, Inc., 385 Putnam Ave., Cambridge 39, Mass.
See advertisement on page 81A
Sherron Electronics Co., Div. of Sherron Metallic Corp., 1201 Flushing Ave., Brooklyn 6, N.Y.
See advertisement on page 5A
Stephens Mfg. Corp., 10416 National Blvd., Los Angeles 34, Calif.
See advertisement on page 86A
United Transformer Corp., 150 Varick St., New York 13, N.Y.
See advertisement on page 13A
Waterman Products Co., 2445 Emerald St., Philadelphia 25, Pa.
See advertisement on page 114A
Western Electric Co., 195 Broadway, New York 7, N.Y.
See advertisement on page 2A, 3A

3. ANTENNAS:

A. AM Broadcast Transmitting
B. Dummy
C. FM Broadcast Transmitting
D. Miscellaneous Types
E. Receiving, all services
F. Television Transmitting

Andrew Corp., 363 East 75th St., Chicago 19, Ill., B, C, D
See advertisement on page 30A
Bendix Aviation Corp., Pacific Division, 11600 Sherman Way, North Hollywood, Calif.
See advertisement on page 14A
Collins Radio Company, 855—35th St. N.E., Cedar Rapids, Iowa, A, C
See advertisement on page 22A, 23A
Cornish Wire Co., Inc., 15 Park Row, New York 7, N.Y.
See advertisement on page 125A
Allen B. DuMont Laboratories, Inc., 42 Harding Ave., Clifton, N.J. F
See advertisement on page 28A
Federal Telephone & Radio Corp., 100 Kingsland Rd., Clifton, N.J. C, D, F
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A. W. Franklin Mfg. Corp., 32-20 34th St., Long Island City 1, N.Y. D, E
See advertisement facing pages 48, 49
Industrial Products Co., P.O. Box 148, Danbury, Conn. D
See advertisement on page 53A

(Continued on page 100A)

FREQUENCY METERS
FREQUENCY STANDARDS
RECEIVERS — TRANSMITTERS

ELECTROMYOGRAPH
TEST EQUIPMENT
ANTENNAS

Specialists

The LAVOIE trademark is...

- **A SYMBOL** of a unique UHF service designed to assist you with every step in the design, develpment or manufacture of electronic products.
- **AN ASSURANCE** of precision work based on specialized UHF technique and production methods acquired by years of practical experience.
- **A GUARANTEE** of proved integrity demonstrated by a decade of close, confidential collaboration with governmental projects and key industries.

Literature... Information

● If UHF design, precision production, and trusted association are vital with you, LAVOIE Laboratories can meet those requirements.

We welcome your inquiries.

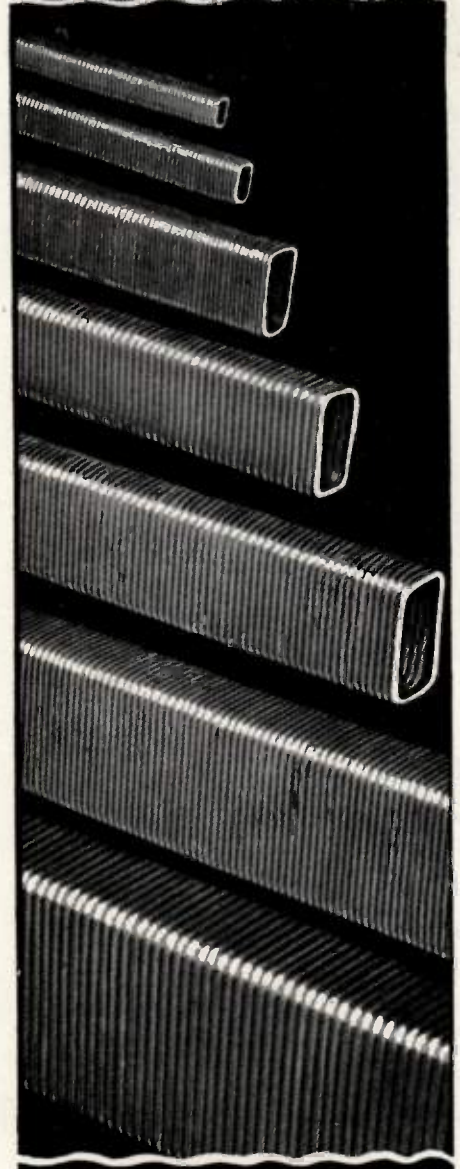
Lavoie Laboratories

RADIO ENGINEERS AND MANUFACTURERS
MORGANVILLE, N. J.

Specialists in the Development and Manufacture of UHF Equipment

Airtron

FLEXAGUIDE



IMPROVED FLEXIBLE WAVEGUIDE

in sizes for ALL frequency ranges . . . Army-Navy or YOUR special requirements We specialize in the design, engineering and production of

FLEXIBLE MICRO-WAVE PLUMBING

Airtron

DESIGNS and PRODUCES
Electronic and Aircraft Components

650 Bloomingdale Road, Pleasant Plains
Staten Island 9 New York

BRANCH OFFICES

Baltimore Detroit Los Angeles

(Continued from page 98A)

Insuline Corp. of America, 36-02 35th Ave., Long Island City 1, N.Y. D, E
See advertisement on page 52A

Lavoie Laboratories, Matawan-Freehold Rd., Morganville, N.J. B
See advertisement on page 99A

Measurements Corp., Boonton, N.J. D
See advertisement on page 63A

Ohmite Manufacturing Co., 4967 Flournoy St., Chicago 44, Ill. B
See advertisement on page 67A

Premax Products, Div. Chisholm-Ryder Co., Inc., 4811 Highland Ave., Niagara Falls, N.Y. D, E
See advertisement on page 72A

Radio Corporation of America, 415 S. Fifth St., Harrison, N.J. E
See advertisement on page 31A

Radio Receptor Co., Inc., 251 West 19th St., New York 11, N.Y. D
See advertisement on page 76A

Sperry Gyroscope Co., Division of the Sperry Corp., Great Neck, L.I., N.Y. C, E
See advertisement on page 25A

Western Electric Co., 195 Broadway, New York 7, N.Y.
See advertisement on pages 2A, 3A

4. ANTENNA PHASING EQUIPMENT & ACCESSORIES:

A. Feeder Lines & Accs.
B. Phasing Equipment
C. Tower Lighting Equipment

Andrew Corp., 363 East 75th St., Chicago 19, Ill. A, B, C
See advertisement on page 30A

Barker & Williamson, Inc., 237 Fairfield Ave., Upper Darby, Pa. B, C
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Collins Radio Co., 855 35th St., N.E., Cedar Rapids, Iowa
See advertisement on pages 22A, 23A

Hughey & Phillips, 326 N. La Cienega Blvd., Los Angeles 36, Calif. C
See advertisement on page 50A

Industrial Products Co., P.O. Box 148, Danbury, Conn. A, B, C
See advertisement on page 53A

Insuline Corp. of America, 36-02 35th Ave., Long Island City 1, N.Y. A, B, C
See advertisement on page 52A

Lehigh Structural Steel Co., 17 Battery Pl., New York 4, N.Y.
See advertisement on page 58A

Mueller Electric Co., 1603 East 31st St., Cleveland 14, Ohio
See advertisement on page 98A

Premax Products, Div. Chisholm-Ryder Co., Inc., 4811 Highland Ave., Niagara Falls, N.Y.
See advertisement on page 72A

Radio Receptor Co., Inc., 251 West 19th St., New York 11, N.Y.
See advertisement on page 76A

Sperry Gyroscope Co., Div. of the Sperry Corp., Great Neck, L.I., N.Y.
See advertisement on page 25A

Western Electric Co., 195 Broadway, New York 7, N.Y. B
See advertisement on page 2A, 3A

5. ATTENUATORS:

Clarostat Mfg. Co., Inc., 285-7 N. 6th St., Brooklyn 11, N.Y.
See advertisement on page 89A

The Daven Co., 191 Central Ave., Newark 4, N.J.
See advertisement on page 27A

General Radio Co., 275 Massachusetts Ave., Cambridge 39, Mass.
See advertisement on page 41A

Hewlett-Packard Co., 395 Page Mill Rd., Palo Alto, Calif.
See advertisement on pages 10, 11A

Measurements Corp., Boonton, N.J.
See advertisements on page 63A

Ohmite Manufacturing Co., 4967 Flournoy St., Chicago 44, Ill.
See advertisement on page 67A

Shallcross Mfg. Co., 520 Pusey Ave., Collingdale, Pa.
See advertisement facing pages 80, 81

Sperry Gyroscope Co., Division of the Sperry Corp., Great Neck, L.I., N.Y.
See advertisement on page 25A

United Transformer Corp., 150 Varick St., New York 13, N.Y.
See advertisement on page 13A

6. BATTERIES:

A. Dry "A"
B. Dry "B"
C. Dry Miniature
D. Wet Primary
E. Wet Secondary

National Carbon Co., Inc., Unit of Union Carbide and Carbon Corp., 30 East 42nd St., New York 17, N.Y. A, B, C, D
See advertisement on page 64A

Radio Corp. of America, 415 S. Fifth St., Harrison, N.J. A, B, C
See advertisement on page 31A

7. BLOWERS & COOLING FANS. BRIDGES, SEE TESTING EQUIPMENT

8. CABINETS, WOODEN

Allen B. DuMont Laboratories, Inc., 100 Main Ave., Clifton, N.J.
See advertisement on page 28A

Stephens Mfg. Corp., 10416 National Blvd., Los Angeles 34, Calif.
See advertisement on page 86A

9. CABLES:

A. Coaxial
B. Microphone
C. Pre-Formed Harnesses
D. Shielded
E. Ultra-High Freq.

Airtron, Inc., 653 Bloomingdale Rd., Staten Island 9, N.Y. A, D, E
See advertisement on page 100A

Andrew Corp., 363 East 75th St., Chicago 19, Ill. A, E
See advertisement on page 30A

Barker & Williamson, Inc., 237 Fairfield Ave., Upper Darby, Pa. C
See advertisement on page 101A

Federal Telephone & Radio Corp., 100 Kingsland Rd., Clifton, N.J. A, B, C, D, E
See advertisement on page 44A and 45A

General Radio Co., 275 Massachusetts Ave., Cambridge 39, Mass. A, D, E
See advertisement on page 41A

Industrial Products Co., P.O. Box 148, Danbury, Conn. A, C
See advertisement on page 53A

Insuline Corp. of America, 36-02 35th Ave., Long Island City 1, N.Y. D
See advertisement on page 52A

Lenz Electric Mfg. Co., 1751 N. Western Ave., Chicago 47, Ill. B, C, D
See advertisement on page 59A

Measurements Corp., Boonton, N.J. A, E
See advertisement on page 63A

(Continued on page 102A)

FOUR FAMOUS B&W INSTRUMENTS THAT BELONG IN YOUR LAB!

You can use these instruments to speed:

• Selection of Components • Special Audio Circuit Analysis
• Routine Performance Checks • All-around Audio Circuit Design and Experimentation

For the first time, here is truly high quality equipment, priced within the range of even the small laboratory. These four new B&W instruments are the products of an organization fully acquainted with the needs of today's research, engineering and experimental laboratories.

Each is designed for a specific purpose, but each one will assist you in many important ways. With these four new instruments in your lab you can get the answers you need—accurately and quickly. They'll speed your work and pay for themselves many times over in a relatively short time. Your complement of laboratory equipment is not complete without at least one of each of these new tools to help you "step up" your program of projects. *Write for descriptive folders.*

B&W

FREQUENCY METER
Model 300

The B&W Audio Frequency Meter provides an accurate and convenient means of making direct measurements of unknown audio frequencies within its range up to 30,000 cycles. The circuit consists of an input voltage gain amplifier followed by two limiting amplifiers, the last of which feeds an RC integrating circuit and full wave rectifier whose DC voltage output increases linearally with frequency. Integral power supply. A high-impedance input circuit plus low-input operating voltage permits the unit to be operated from the phone jack of a standard receiver for measuring the audible beat between two R.F. carriers. Extremely useful for routine checking of audio oscillators or tone generators.

B&W

AUDIO OSCILLATOR
Model 200

The B&W Audio Oscillator consists of a modified Wien Bridge R.C. oscillator and a two stage inverse feedback output amplifier with self-contained power supply. This unit is characterized by small size, light weight and ease of operation combined with outstanding performance. Ideal for use in distortion measurements, frequency measurements or in any application where a stable, accurately calibrated source of frequencies between 30 and 30,000 cycles is required. No zero reset or line calibration is required. An ideal portable unit which may be taken to the job.

B&W

DISTORTION METER
Model 400

The B&W Distortion Meter is a sensitive instrument having a wide range of applications in the audio frequency measurements field. The circuit consists essentially of a Wien bridge null balance included in a feedback amplifier, capable of complete fundamental frequency suppression but producing no attenuation of frequencies removed one octave or more, in combination with a sensitive vacuum tube voltmeter and accurately calibrated attenuator. Complete with integral power supply. Ideal for measuring low level audio voltages and determining their noise and harmonic content. Also used for measuring frequency and gain characteristics of audio amplifiers or any other application where a vacuum tube voltmeter is required in the audio range. The variable frequency selective filter provides a single frequency suppression circuit for the frequency range of 50 to 15,000 cycles. Its small size and light weight combine with outstanding performance to make it an ideal unit for either laboratory or field work.

B&W

SINE WAVE CLIPPER
Model 250

The B&W Sine Wave Clipper is a device for generating a test signal that is particularly useful for examining the transient and frequency response of audio circuits. It is a great time saver when used in experimental work, or on equipment under development. A sine wave analysis after every change of a component becomes time consuming and tedious. By means of the Sine Wave Clipper, the effect of making changes in a circuit may be seen immediately, thus guiding the course of development in the proper direction.

Write for complete descriptive folders

BARKER & WILLIAMSON, Inc.

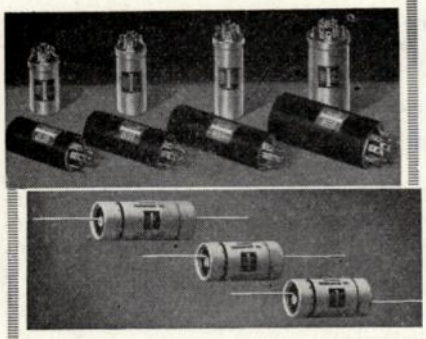
Radio Manufacturing Engineers

Dept. PR-58, 237 FAIRFIELD AVENUE, UPPER DARBY, PENNA.

• The Trade Mark of "Time-Tested Quality"

ILLINOIS CONDENSERS BELONG IN THE BEST

Electronic Sets

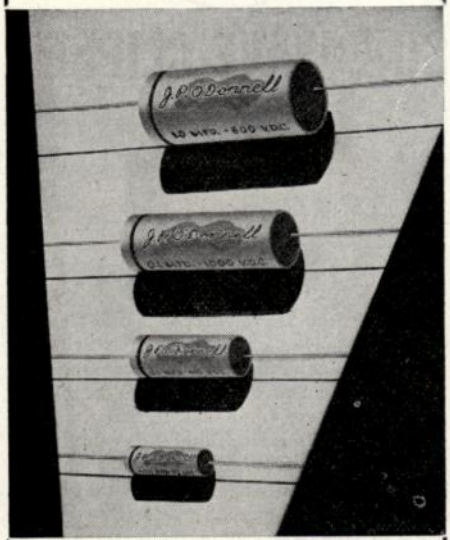


• Look to Illinois for a complete line of electrolytic capacitors for every electronic application. When you need a capacitor that has superior ability to withstand extreme temperature changes, that's manufactured to exacting specifications, that's time-tested through 14 years of high quality production experience—you want an Illinois condenser!

Write for our latest catalog.

ILLINOIS CONDENSER CO.
1616 NORTH THROOP STREET • CHICAGO 22 ILL

TUBULAR CAPACITORS FOR THE ELECTRONICS INDUSTRY



— QUALITY —

WHERE QUALITY COUNTS

J. P. O'DONNELL & SONS Inc.
316 STUART STREET
BOSTON 16, MASSACHUSETTS

(Continued from page 100A)

Radio Corp. of America, 415 S. Fifth St., Harrison, N.J. F
See advertisement on page 31A
Sperry Gyroscope Co., Div. of the Sperry Corp., Great Neck, L.I., N.Y. E
See advertisement on page 25A
Western Electric Co., 195 Broadway, New York 7, N.Y. A, B, D
See advertisement on pages 2A, 3A

10. CAPACITORS, FIXED:

A. Ceramic **D. Oil Filled**
B. Electrolytic **E. Paper**
C. Mica **F. Pressurized Gas**
G. Vacuum

Barker & Williamson, Inc., 237 Fairfield Ave., Upper Darby, Pa. D
See advertisement on page 101A
Centralab, Div. of Globe-Union, Inc., 900 E. Keefe Ave., Milwaukee 12, Wis. A
See advertisement facing pages 16A and 17A
Electrical Reactance Corp., 34 Elm St., Franklinville, N.Y. A
See advertisement on page 17A
The Electro Motive Mfg. Co., Inc., South Park & John Sts., Willimantic, Conn.
See advertisement on page 33A
Erie Resistor Corp., 640 West 12th St., Erie, Pa. A, C
See advertisement on page 37A
Federal Telephone & Radio Corp., 100 Kingsland Rd., Clifton, N.J. G
See advertisement on page 45A
General Radio Co., 275 Massachusetts Ave., Cambridge 39, Mass. C, E
See advertisement on page 41A
Illinois Condenser Co., 1616 N. Throop St., Chicago 22, Ill. B, D, E
See advertisement on page 102A
Legri-S Company, 130 West 102nd St., New York 25, N.Y. A, B, C, D, E
See advertisement on page 58A
Measurements Corp., Boonton, N.J. C
See advertisement on page 63A
Mycalex Corp. of America, 30 Rockefeller Pl., New York 20, N.Y. & Clifton, N.J. A
See advertisement on pages 42, 43
J. P. O'Donnell & Sons Inc., 316 Stuart St., Boston 16, Mass. E
See advertisement on page 102A
Sprague Electric Co., North Adams, Mass. A, B, C, D, E
See advertisement on page 85A
Western Electric Co., 195 Broadway, New York 7, N.Y. C, D, E
See advertisement on page 2A, 3A

11. CAPACITORS, VARIABLE:

A. Neutralizing **D. Trimmer**
B. Precision **E. Tuning**
C. Temperature-Freq. Compensating **F. Vacuum**

Barker & Williamson, Inc., 237 Fairfield Ave., Upper Darby, Pa. A, E
See advertisement on page 101A
Centralab, Div. of Globe-Union, Inc., 900 E. Keefe Ave., Milwaukee 12, Wis. B, C, D
See advertisement facing pages 16A and 17A
Electrical Reactance Corp., 34 Elm St., Franklinville, N.Y. D
See advertisement on page 17A
The Electro Motive Mfg. Co., Inc., South Park & John Sts., Willimantic, Conn.
See advertisement on page 33A
Erie Resistor Corp., 640 West 12th St., Erie, Pa. D
See advertisement on page 37A
General Radio Co., 275 Massachusetts Ave., Cambridge 39, Mass. B, D
See advertisement on page 41A
Insuline Corp. of America, 36-02 35th Ave., Long Island City 1, N.Y. A, D, E
See advertisement on page 52A
Jennings Radio Mfg. Co., 1098 E. William St., San Jose 12, Calif. A, B, C, D, E, F
See advertisement on page 103A
Measurements Corporation, Boonton, N.J. D
See advertisement on page 63A
J. W. Miller Co., 5917 S. Main St., Los Angeles 3, Calif. D, E
See advertisement on page 62A

12. CERAMICS:

A. Coil Forms **C. Rods**
B. Ground Mica **D. Sheets**

American Lava Corp., Chattanooga 5, Tenn. A, C, D
See advertisement on page 7A
Bendix Aviation Corp., Pacific Division 11600 Sherman Way, North Hollywood, Calif.
See advertisement on page 14A
Centralab, Div. of Globe-Union, Inc., 900 E. Keefe Ave., Milwaukee 12, Wis. A, C
See advertisement facing pages 16A, 17A
Insuline Corp. of America, 36-02 35th Ave., Long Island City 1, N.Y. A, C
See advertisement on page 52A
Mycalex Corp. of America, 30 Rockefeller Plaza New York 20, N.Y. and Clifton, N.J. A, C, D
See advertisement on page 42A, 43A

13. CHASSIS & RELAY RACK CABINETS, METAL

The Barry Corporation, 179 Sidney St., Cambridge 39, Mass.
See advertisement on page 130A
Centralab, Div. of Globe-Union, Inc., 900 E. Keefe Ave., Milwaukee 12, Wis. 13 Printed Electronic Circuit
See advertisement facing pages 16A and 17A
Insuline Corp. of America, 36-02 35th Ave., Long Island City 1, N.Y.
See advertisement on page 52A
Par-Metal Products Corp., 32-62 49th St., Long Island City 3, N.Y.
See advertisement on page 68A
Western Electric Co., 195 Broadway, New York 7, N.Y.
See advertisement on page 2A, 3A

Coil Forms, See Ceramics

14. COILS:

A. Chokes, AF & RF **C. Toroids**
B. Miscellaneous Types **D. Transformer Coils**
E. Tuning

Andrew Corp., 363 East 75th St., Chicago 19, Ill. A
See advertisement on page 30A

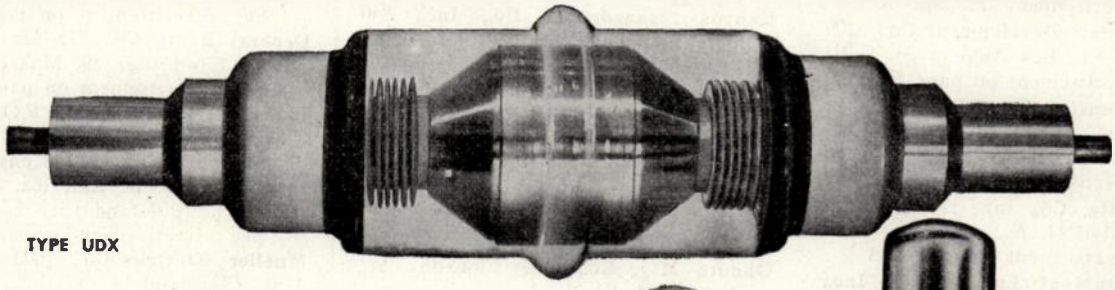
(Continued on page 104A)

Jennings RADIO
VACUUM ELECTRONIC COMPONENTS

FIXED and VARIABLE HIGH VOLTAGE VACUUM CAPACITORS

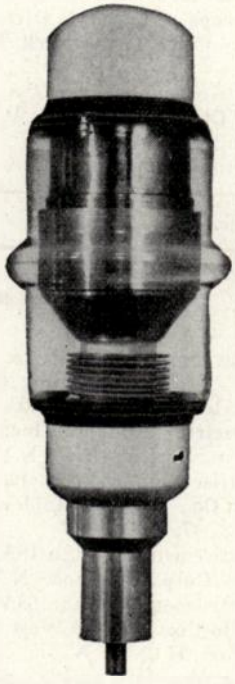
Special Characteristics on a to-order basis

WATCH JENNINGS FOR NEW DEVELOPMENTS IN THE FIELD OF SPECIALIZED VACUUM ELECTRONIC COMPONENTS

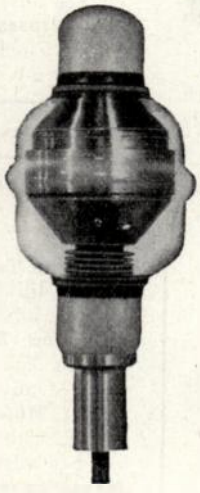


TYPE UDX

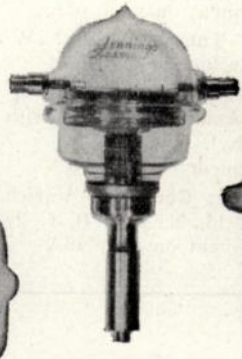
TYPE Y



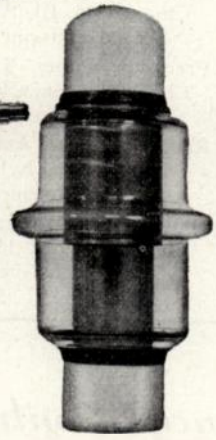
TYPE UX
TYPE UXH



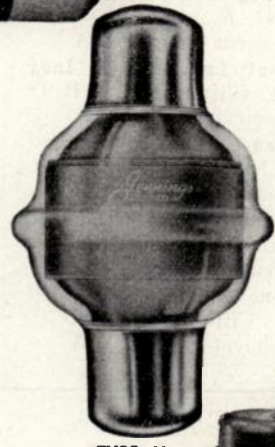
TYPE U
TYPE UH



TYPE S



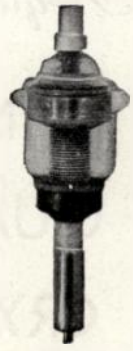
TYPE JC-3



TYPE M
TYPE MH

TYPE AT

TYPE JC-2



TYPE T

TYPE VC 250
TYPE VC 50

Write for Bulletin E

VACUUM VARIABLE CAPACITORS

TYPE UDX
Capacity Range, mmfd. Max. 875, Min. 30
Peak Volts, 10KV, L. 19¾", D. 4¾"

TYPE UX
Capacity Range, mmfd. Max. 560, Min. 40
Peak Volts, 10KV, L. 14-3/16", D. 4¾"
Available in 15KV

TYPE UHX
Capacity Range, mmfd. Max. 150, Min. 25
Peak Volts, 35KV, L. 14¾", D. 4¾"

TYPE U
Capacity Range, mmfd. Max. 250, Min. 50
Peak Volts, 10KV (available in 15KV)
L. 11¾", D. 4¾"

TYPE UH
Capacity Range, mmfd. Max. 75, Min. 10 and Max. 150, Min. 75
Peak Volts, 35KV, Dims. same as Type U

TYPE AT
Capacity Range, mmfd. Max. 50, Min. 10
Peak Volts, 10KV and 20KV,
L. 6-9/16", D. 3"

TYPE T
Capacity Range, mmfd. Max. 25, Min. 5
Peak Volts, 10KV and 20KV,
L. 6⅜", D. 2¼"

TYPE TR (Not illustrated)
Capacity Range
mmfd. Max. 7½", Min. 1½"
Dimensions same as Type T

TYPE S (SPLIT STATOR)
Capacity Range per section
mmfd. Max. 30, Min. 10
Peak Volts, 7½ KV per sec.
L. 6¾", D. 3"

VACUUM FIXED CAPACITORS —TUNGSTEN LEADS

TYPE VC-250
Capacities available, mmfd. 200 & 250
Peak Volts, 10 & 20KV, L. 6½", D. 2¾"

TYPE VC-50
Capacities available, mmfd. 6 thru 150
Peak Volts, 10, 20, 30KV, L. 6½", D. 2¼"

TYPE K (Not illustrated)
Capacity available, mmfd. 50
Peak Volts, 35KV to 50KV,
L. 8½", D. 3"

TYPE W—WALNUT (Not illus.)
Capacities available, mmfd. 6 thru 150
Peak Volts, 10KV, and 20KV
L. 4-3/16", D. 2-5/16"

TYPE X—PEANUT (Not illustrated)
Capacities available, mmfd. 5 thru 25
Peak Volts, 17KV, L. 3¼", D. 1 5/16"

TYPE Y—PINENUT
Capacities available, mmfd. 1 thru 5
Peak Volts, 17KV, L. 3-5/16", D. ⅞"

COPPER ANODE VACUUM FIXED CAPACITORS
(May be internally water or air cooled)

TYPE M—COCONUT
Capacities available,
mmfd. 500, 750 or 1,000
Peak Volts, 10 & 15KV, L. 8⅜", D. 5"

TYPE MH—COCONUT
Capacities available up to 200 mmfd.
Peak Volts, 35KV,
Dimensions same as Type M

VACUUM FIXED CAPACITORS HIGH AMPERAGE TYPE
(Constructed entirely of Copper)

TYPE J.C.—1 (Not illustrated)
Capacities available thru 25 mmfd.
Peak Amp. 30, L. 3⅞", D. 1¾"

TYPE J.C.—2
Capacities available thru 100 mmfd.
Peak Amp. 40, L. 3¾", D. 3"
Higher voltage available

TYPE J.C.—3
Capacities available thru 50 mmfd.
Peak 35KV, 150 Amp., L. 8½", D. 4"
Forced draft Cooling available

TYPE J.C.—4
Capacities available thru 100 mmfd.
Peak 35KV, 150 Amp., L. 8⅞", D. 5"
Current 200 Amp.

JENNINGS RADIO MANUFACTURING COMPANY 1098 EAST WILLIAM STREET, SAN JOSE 12, CALIFORNIA, U. S. A.

(Continued from page 102A)

Barker & Williamson, Inc., 237 Fairfield Ave., Upper Darby, Pa. A, B, C, E
See advertisement on page 101A

Bendix Aviation Corp., Pacific Division, 11600 Sherman Way, North Hollywood, Calif.
See advertisement on page 14A

Burnell & Co., 45 Warburton Ave., Yonkers 2, N.Y.
See advertisement on page 19A

Cambridge Thermionic Corp., 440 Concord Ave., Cambridge 38, Mass. A
See advertisement on page 105A

Cannon Electric Development Co., 3209 Humboldt St., Los Angeles 31, Calif
See advertisement on page 116A

Chicago Transformer, Div. of Essex Wire Corp., 3501 Addison St., Chicago 18, Ill. A, B
See advertisement on page 21A

Clarostat Mfg. Co., Inc., 285-7 N. 6th St., Brooklyn 11, N.Y. A
See advertisement on page 89A

Allen B. DuMont Laboratories, Inc., 1000 Main Ave., Clifton, N.J. A, B, D
See advertisement on page 28A

Electrical Reactance Corp., 34 Elm St., Franklinville, N.Y. A
See advertisement on page 17A

Electro Engineering Works, 6021 College Ave., Oakland 11, Calif. A, B
See advertisement on page 32A

Federal Telephone & Radio Corp., 100 Kingsland Rd., Clifton, N.J. A, D
See advertisement on page 45A

Ferranti Electric, Inc., 30 Rockefeller Plaza, New York 20, N.Y. B, D
See advertisement on page 77A

Freed Transformer Co., Inc., 72 Spring St., New York 12, N.Y.
See advertisement on page 48A

General Radio Co., 275 Massachusetts Ave., Cambridge 39, Mass. A
See advertisement on page 41A

Inductive Equipment Corp., Quarry Park, Gettysburg, Pa. A, B, E
See advertisement on page 120A

Insuline Corp. of America, 36-02 35th Ave., Long Island City 1, N.Y. A, B
See advertisement on page 52A

Kenyon Transformer Co., Inc., 840 Barry St., New York 59, N.Y. A, B, D
See advertisement on page 56A

Mepco, Inc., Troy Hills Rd., Whippany, N.J. A, B, D
See advertisement on page 128A

J. W. Miller Co., 5917 S. Main St., Los Angeles 3, Calif. A, B, E
See advertisement on page 62A

Ohmite Mfg. Co., 4967 Flournoy St., Chicago 44, Ill. A
See advertisement on page 67A

Precision Paper Tube Co., 2062 W. Charleston St., Chicago 47, Ill. B
See advertisement on page 76A

Radio Corp. of America, 415 S. Fifth St., Harrison, N.J. A
See advertisement on page 31A

United Transformer Corp., 150 Varick St., New York 13, N.Y. A, B, C, D
See advertisement on page 13A

Western Electric Co., 195 Broadway, New York 7, N.Y. A
See advertisement on page 2A, 3A

Condensers, See Capacitors

15. CONNECTORS

Aircraft Radio Corp., Boonton, N.J.
See advertisement on page 98A

Bendix Aviation Corp., Pacific Division 11600 Sherman Way, North Hollywood, Calif.
See advertisement on page 14A

Cannon Electric Development Co., 3209 Humboldt St., Los Angeles 31, Calif.
See advertisement on page 116A

General Radio Co., 275 Massachusetts Ave., Cambridge 39, Mass.
See advertisement on page 41A

Industrial Products Co., P.O. Box 148, Danbury, Conn.
See advertisement on page 53A

Insuline Corp. of America, 36-02 35th Ave., Long Island City 1, N.Y.
See advertisement on page 52A

Mueller Electric Co., 1603 East 31st St., Cleveland 14, Ohio
See advertisement on page 98A

Sperry Gyroscope Company, Division of the Sperry Corp., Great Neck, L.I., N.Y.
See advertisement on page 25A

The Vitroseal Corp., 918 Oak St., Wyoming Cincinnati 15, Ohio
See advertisement on page 92A

Consoles, See Amplifiers

16. CONVERTERS:

A. Frequency **B. Rotary, see Motor Generators** **C. Vibrator**

American Television and Radio Co., 300 East 4th St., St. Paul 1, Minn. C
See advertisement on page 40A

Arlington Electric Products, Inc., 18 West 25th St., New York 10, N.Y.
See advertisement on page 106A

Carter Motor Co., 2645 N. Maplewood Ave., Chicago 47, Ill. A
See advertisement on page 18A

Measurements Corp., Boonton, N.J. A
See advertisement on page 63A

Northern Radio Co., Inc., 143 West 22nd St., New York 11, N.Y. A
See advertisement facing pages 114A, 115A

Western Electric Co., 195 Broadway, New York 7, N.Y. C
See advertisement on page 2A, 3A

17. CORE MATERIALS:

A. Complete Cores **B. Laminations** **C. Powdered Iron**

A. W. Franklin Mfg. Corp., 43-20 34th St., Long Island City 1, N.Y.
See advertisement facing pages 48, 49

General Aniline & Film Corp., 444 Madison Ave., New York 22, N.Y. C
See advertisement on page 39A

Magnetic Core Corp., 142 S. Highland Ave., Ossining, N.Y. A, C
See advertisement on page 60A

C. K. Williams & Co., 2001 Lynch Ave., East St. Louis, Ill. C
See advertisement on page 93A

(Continued on page 106A)

For Frequency Control

Hunt CR-7

HUNT
QUARTZ
CRYSTAL UNITS

√ Engineered √ Tested
√ Produced √ Guaranteed

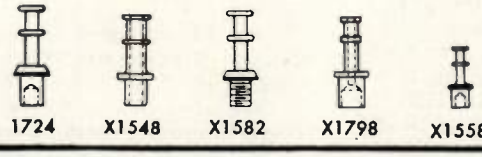
by

THE Hunt CORPORATION
CARLISLE, PA.

Pacemaker in Stability

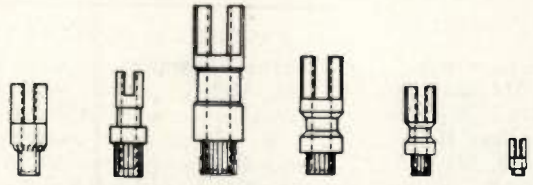
CTC Expands Line of Electrical and Electronic Components and Hardware

TURRET LUGS (All Lugs silver-plated brass). With 2 soldering spaces for 2 or more connections. Stocked in 1/32", 1/16", 3/32", 1/8", 3/16" sizes for standard phenolic terminal board thicknesses.



1724 X1548 X1582 X1798 X1558

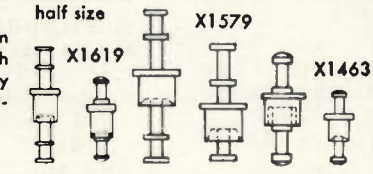
SPLIT LUGS (Knurled). For potted units where later soldering is advisable, as well as standard applications. Hole through shaft allows top or bottom wiring. To fit 3/32" or 5/32" boards.



1969 X1578 X1782 X1783 X1784 X1785

DOUBLE END LUGS

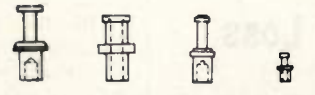
Provide terminal posts on both sides of board with through connection for easy wiring. For board thicknesses from 3/32" to 1/4".



X1620 1081 X1143

SHORT LUGS

For low "headroom" applications. Available in shank lengths for 6 board thicknesses, starting with 1/64".

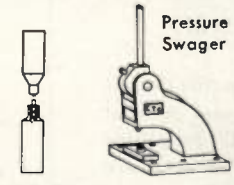


S1245 X1797 X1457 X1604

SWAGERS

H.S. (Hand) Swagers are sold outright in sizes for any CTC Terminal lug.

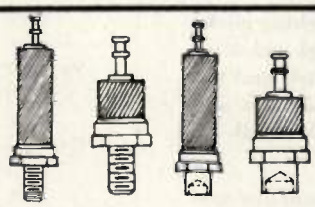
Pressure Swagers. Supplied with dies for one type terminal on loan basis. Extra dies or unit with dies may be bought outright.



HS Series

INSULATED TERMINALS

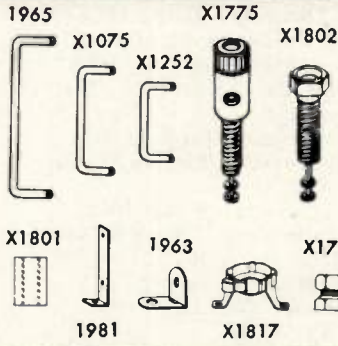
Two sizes in rivet or stud type, for high electrical stresses over broad humidity range. Phenolic insulator with midget single or double lug. Voltage breakdown X1719, X1718, 11,000V at 60 cycles RMS. X1581, X1580, 6000V.



X1719 X1581 X1718 X1580

HARDWARE

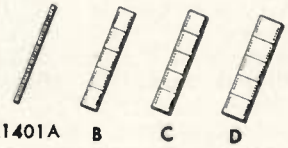
Miscellaneous hardware as shown.



X1552 1246 1981 X1817

TERMINAL BOARDS

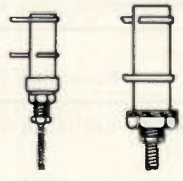
Of approved laminated phenolic, 3/32", 1/8", 3/16" thick in 4 widths — 1/2", 2", 2 1/2", 3". Five-section, separable units with each section drilled for 14 lugs.



X1401A B C D

SLUG TUNED COILS

Miniature variable inductors. LSM 21/32" high, LS3 1 1/8" high when mounted. Both in 5 standard windings (1, 5, 10, 30, 60 mc) also special windings or as unwound high quality phenolic coil forms. Performance charts available.

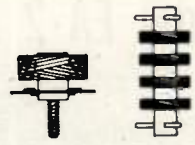


LSM LS3

R.F. CHOKES

LHC — high Q iron core choke with 6-32 mounting stud, in 8 standard values from 2.5 mh to 125.0 mh.

LAB — Pie wound on phenolic core with cotter pin terminals in 8 windings from .75 mh to 15.0 mh. Current rating for both — 125 ma.



LHC LAB

Custom or Standard
The Guaranteed
Components

CUSTOM ENGINEERING } CTC Engineers will design Boards, Coils and Terminal Lugs for production in quantity to fulfill whatever need may arise.

WRITE FOR CATALOG NO. 200 } for complete information on these and other CTC Electrical and Electronic Components and Hardware. No obligation, of course.

CAMBRIDGE THERMIONIC CORPORATION • 440 CONCORD AVE., CAMBRIDGE 38, MASS.

(Continued from page 104A)

18. CRYSTALS:

A. Oscillating Quartz B. Piezo-Electric C. Rectifier

Bliley Electric Co., 227 Union Station Bldg., Erie, Pa. A, B
See advertisement on page 15A

Cambridge Thermionic Corp., 440 Concord Ave., Cambridge 38, Mass. A
See advertisement on page 105A

Clark Crystal Co., 2 Farm Rd., Marlboro, Mass. A, B
See advertisement on page 20A

The Hunt Corporation, Lincoln St., Carlisle, Pa. A, B, C
See advertisement on page 104A

Reeves-Hoffman Corp., Cherry & North Sts., Carlisle, Pa. A, B
See advertisement on page 78A

Standard Piezo Co., 127 Cedar St., Carlisle, Pa. A, B
See advertisement on page 84A

Sylvania Electric Products, Inc., 500 Fifth Ave., New York 18, N.Y. Emporium, Pa.
See advertisement on page 51A

Valpey Crystal Corp., 1244 Highland St., Holliston, Mass. A, B
See advertisement on page 92A

Western Electric Co., 195 Broadway New York 7, N.Y. A, B, C
See advertisement on page 2A, 3A

Discs, Recording, see Recording Equipment

19. DRAFTING EQUIPMENT AND SUPPLIES

Dynamotors, see Motor Generators

20. ELECTRONIC CONTROL EQUIP.:

A. Air Conditioning Controls
B. Burglar Alarm & Protection Devices
C. Combustion & Smoke Control Equip.
D. Fire Prevention Equip.
E. Photo-Electric Control Devices
F. Production Controls, Counting & Sorting Equipment
G. Variable Speed Motor Controlling Equipment

Barker & Williamson, Inc., 237 Fairfield Ave., Upper Darby, Pa. B, E, F
See advertisement on page 101A

Chatham Electronics Corp., 475 Washington St., Newark 2, N.J. E, F
See advertisement on page 115A

DeJur Amsco Corp., 45th St. at Northern Blvd., Long Island City, N.Y. E
See advertisement on page 29A

Ferranti Electric, Inc., 30 Rockefeller Plaza, New York 20, N.Y. B
See advertisement on page 77A

Furst Electronics, North Ave. and Halsted St., Chicago 22, Ill. C, E
See advertisement on page 38A

General Radio Co., 275 Massachusetts Ave., Cambridge 39, Mass. F
See advertisement on page 41A

A. W. Haydon Co., 111 W. Main St., Waterbury 32, Conn. G
See advertisement on page 47A

Hughey & Phillips, 326 N. La Cienega Blvd., Los Angeles 36, Calif. D
See advertisement on page 50A

Sherron Electronics Co., Div. of Sherron Metallic Corp., 1201 Flushing Ave., Brooklyn 6, N.Y. F, G
See advertisement on page 5A

The Superior Electric Co., 83 Laurel St., Bristol, Conn. F
See advertisement on page 107A

21. EQUALIZERS

Arlington Electric Products, Inc., 18 West 25th St., New York 10, N.Y.
See advertisement on page 106A

Burnell & Company, 45 Warburton Ave., Yonkers 2, N.Y.
See advertisement on page 19A

The Daven Co., 191 Central Ave., Newark 4, N.J.
See advertisement on page 27A

Kenyon Transformer Co., Inc., 840 Barry St., New York 59, N.Y.
See advertisement on page 56A

Presto Recording Corp., Paramus, N.J.
See advertisement on page 70A, 71A

Western Electric Co., 195 Broadway, New York 7, N.Y.
See advertisement on page 2A, 3A

22. FACSIMILE EQUIPMENT

Sherron Electronics Co., Div. of Sherron Metallic Corp., 1201 Flushing Ave., Brooklyn 6, N.Y.
See advertisement on page 5A

Times Facsimile Corp., 229 West 43rd St., New York 18, N.Y.
See advertisement on page 90A

23. FILTERS:

A. Band Pass B. Noise Elimination C. Sound Effect

Applied Science Corp. of Princeton, P.O. Box 44, Princeton, N.J. A
See advertisement on page 128A

Arlington Electric Products, Inc., 18 West 25th St., New York 10, N.Y.
See advertisement on page 106A

Barker & Williamson, Inc., 237 Fairfield Ave., Upper Darby, Pa. A, B, C
See advertisement on page 101A

Bendix Aviation Corp., Pacific Division, 11600 Sherman Way, North Hollywood, Calif.
See advertisement on page 14A

Burnell & Company, 45 Warburton Ave., Yonkers 2, N.Y. A, C
See advertisement on page 19A

Chicago Transformer, Div. of Essex Wire Corp., 3501 Addison St., Chicago 18, Ill. A
See advertisement on page 21A

Federal Telephone & Radio Corp., 100 Kingsland Rd., Clifton, N.J. A
See advertisement on page 45A

Ferranti Electric, Inc., 30 Rockefeller Plaza, New York 20, N.Y. A
See advertisement on page 77A

Freed Transformer Co., Inc., 72 Spring St., New York 12, N.Y.
See advertisement on page 48A

General Radio Co., 275 Massachusetts Ave., Cambridge 39, Mass. A, B
See advertisement on page 41A

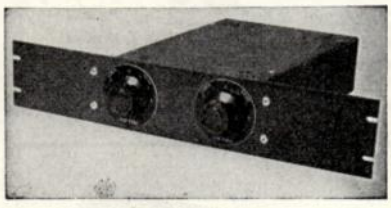
Inductive Equipment Corp., Quarry Park, Gettysburg, Pa. A, B
See advertisement on page 120A

Insuline Corp. of America, 36-02 35th Ave., Long Island City 1, N.Y. B
See advertisement on page 52A

Kenyon Transformer Co., Inc., 840 Barry St., New York 59, N.Y. A, B, C
See advertisement on page 56A

(Continued on page 108A)

Model EA-2 AUDIO COMPENSATOR



Zero Insertion Loss

OR

25 Db Gain

WITH NO AXIS SHIFT

This compensator is designed for use where audio equalization is required. It is applicable in film recording, disc recording and general broadcast studio work. The unit consists of a two stage "RC" amplifier using type 1620 tubes. Standard input and output impedances are available.

The equalizer can be switched during a take with no switching clicks or mid range gain shift. This distortion free low noise level equalizer includes the most modern features. The high frequency switch and the low frequency switch have a flat position, three positions of raise and three positions of lower, giving 8 db of equalization and 16 db of attenuation at both ends of the audio spectrum.

In addition, we custom build all types of recording equipment for motion picture, television and broadcast work, and offer complete audio engineering service (Dept. Eng-1.)

(Send For Brochures with Curves)

ARLINGTON ELECTRIC PRODUCTS, Inc.

18 WEST 25th STREET NEW YORK 10, N. Y.

WAtkins 9-8961

DEPENDABLE VOLTAGE CONTROL BY THE SUPERIOR ELECTRIC COMPANY

Features:

STABILINE AUTOMATIC VOLTAGE REGULATORS
POWERSTAT VARIABLE TRANSFORMERS
VOLTBOX A-C POWER SUPPLIES

STABILINE Automatic Voltage Regulators Type EM (Electro-mechanical) consist of an electronic detector circuit controlling a motor-driven POWERSTAT variable transformer. They deliver a constant output voltage regardless of variations in input voltage or load current with absolutely zero waveform distortion. For large installations where low cost and high efficiency are paramount considerations but instantaneous correction is unnecessary, the Type EM has no equal. Applications include radio transmitters, high frequency relay stations, and manufacturing plants with large industrial loads. Standard models are available in ratings up to 100 KVA.

STABILINE Automatic Voltage Regulators Type IE (Instantaneous Electronic) are completely electronic in operation and have no moving parts. They offer instantaneous action to maintain output voltage to within ±0.1 volts of nominal for wide line variations; within ±0.15 volts of nominal for any load current change or load power factor change from lagging 0.5 to leading 0.9. Waveform distortion does not exceed 3%. Numerous models are available in cabinets or for relay rack mounting.

POWERSTAT Variable Transformers provide a continuously adjustable output voltage from a-c power lines. Incorporated into each POWERSTAT are superior qualities of top electrical performance, rugged mechanical construction, compact design, and durability. Both manual and motor-driven types are available in ratings up to 100 KVA.

VOLTBOX A-C Power Supplies have numerous applications in the laboratory and in industry as a compact, portable source of variable a-c voltage. Cast-aluminum case contains: POWERSTAT variable transformer; voltmeter; three output receptacles; Superior Binding Posts; "ON-OFF" switch; "LINE-LOAD" switch; renewable fuse; six foot cord-plug set. 115 and 230 volt models available.

Engineering and design data Bulletin 547 is complete with dimension drawings, ratings, and operational data. Write for your copy. When confronted with voltage control requirements, look to The Superior Electric Company.

Write The Superior Electric Company,
21 Meadow Street, Bristol, Connecticut.

The SUPERIOR ELECTRIC Company, BRISTOL, CONN.

Powerstat Variable Transformers • Voltbox A-C Power Supply • Stabiline Voltage Regulators

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Lavoie Laboratories, Matawan-Freehold Rd., Morganville, N.J. A, B
See advertisement on page 99A

J. W. Miller Co., 5917 S. Main St., Los Angeles 3, Calif. B
See advertisment on page 62A

Northern Radio Co., Inc., 143 West 22nd St., New York 11, N.Y. A
See advertisement facing pages 114A, 115A

Hermon Hosmer Scott, Inc., 385 Putnam Ave., Cambridge 39, Mass. A, B, C
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Stephens Mfg. Corp., 10416 National Blvd., Los Angeles 34, Calif. C
See advertisement on page 86A

United Transformer Corp., 150 Varick St., New York 13, N.Y. A, B, C
See advertisement on page 13A

Western Electric Co., 195 Broadway, New York 7, N.Y. A, B, C
See advertisement on page 2A, 3A

24. FREQUENCY MEAS. EQUIP.:

A. Audio Frequency
B. Primary Standards
C. Radio Frequency
D. Secondary Standards

Barker & Williamson, Inc., 237 Fairfield Ave., Upper Darby, Pa. A, B, C, D
See advertisement on page 101A

Bendix Aviation Corp., Bendix Radio Div., Towson, Md.
See advertisement on page 14A

Boonton Radio Corp., Boonton, N.J.
See advertisement on page 111A

The Daven Co., 191 Central Ave., Newark 4, N.J. A
See advertisement on page 27A

Freed Transformer Co., Inc., 72 Spring St., New York 12, N.Y.
See advertisement on page 48A

Furst Electronics, North Ave., and Halsted St. Chicago 22, Ill. A
See advertisement on page 38A

General Radio Co., 275 Massachusetts Ave., Cambridge 39, Mass. A, B, C, D
See advertisement on page 41A

Hewlett-Packard Co., 395 Page Mill Rd., Palo Alto, Calif. A, C, D
See advertisement on page 10, 11A

Lavoie Laboratories, Matawan-Freehold Rd., Morganville, N.J. A, B, C, D
See advertisement on page 99A

Measurements Corp., Boonton, N.J. C
See advertisement on page 63A

Northern Radio Co., Inc., 143 West 22nd St., New York 11, N.Y.
See advertisement facing pages 114A, 115A

Panoramic Radio Corp., 92 Gold St., New York 7, N.Y. C
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Sherron Electronics Co., Div. of Sherron Metallic Corp., 1201 Flushing Ave., Brooklyn 6, N.Y. A, B, C, D
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Sperry Gyroscope Co., Division of the Sperry Corp., Great Neck, L.I., N.Y. C, D
See advertisement on page 25A

Times Facsimile Corp., 229 West 43rd St., New York 18, N.Y.
See advertisement on page 90A

Triplett Electrical Instrument Co., Bluffton, Ohio, A, C
See advertisement on page 91A

Western Electric Co., 195 Broadway, New York 7, N.Y. A, B
See advertisement on page 2A, 3A

25. FUSES & FUSE HOLDERS: GENERATORS:

A. Power, see Motor
B. Signal, see Frequency Meas. Equip., also Testing Equip.

Bussmann Mfg. Co., University at Jefferson Sts. St. Louis 7, Mo.
See advertisement on page 79A

Insuline Corp. of America, 36-02 35th Ave., Long Island City 1, N.Y.
See advertisement on page 52A

26. GRAPHIC RECORDERS

Western Electric Co., 195 Broadway, New York 7, N.Y.
See advertisement on page 2A, 3A

27. HARDWARE:

A. Binding Posts
B. Bushings
C. Dials & Tuning Controls
D. Flexible Shafts
E. Lugs
F. Screws
G. Springs

Barker & Williamson, Inc., 237 Fairfield Ave., Upper Darby, Pa. A, B, C
See advertisement on page 101A

Cambridge Thermionic Corp., 440 Concord Ave., Cambridge 38, Mass. A, E
See advertisement on page 105A

A. W. Franklin Mfg. Corp., 43-20 34th St., Long Island City 1, N.Y.
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General Radio Co., 275 Massachusetts Ave., Cambridge 39, Mass. A, B, C
See advertisement on page 41A

Hawley Products Co., 333-339 N. 6th St., St. Charles, Ill.
See advertisement on page 108A

The Helipot Corp., 1011 Mission St., South Pasadena, Calif. C
See advertisement on page 119A

Hewlett-Packard Co., 395 Page Mill Rd., Palo Alto, Calif. A
See advertisement on page 10A, 11A

Insuline Corp. of America, 36-02 35th Ave., Long Island City 1, N.Y. A, B, C, D, E, F, G
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Legri-S Co., 130 West 102nd St., New York 25, N.Y. E
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J. W. Miller Co., 5917 S. Main St., Los Angeles 3, Calif. C
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Mueller Electric Co., 1603 East 31st St., Cleveland 14, Ohio
See advertisement on page 98A

S. S. White Industrial Division, The S. S. White Dental Mfg. Co., 10 East 40th St., New York 16, N.Y. C, D
See advertisement on page 94A

28. INDUCTION HEATING EQUIP.

Barker & Williamson, Inc., 237 Fairfield Ave., Upper Darby, Pa.
See advertisement on page 101A

Chatham Electronics Corp., 475 Washington St., Newark 2, N.J.
See advertisement on page 115A

Inductive Equipment Corp., Quarry Park, Gettysburg, Pa.
See advertisement on page 120A

Marion Electrical Instrument Co., Manchester, N.H.
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Radio Receptor Co., Inc., 251 West 19th St., New York 11, N.Y.
See advertisement on page 76A

Sherron Electronics Co., Div. of Sherron Metallic Corp., 1201 Flushing Ave., Brooklyn 6, N.Y.
See advertisement on page 5A

Sperry Gyroscope Co., Division of the Sperry Corp., Great Neck, L.I., N.Y.
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29. INDUCTORS

Andrew Corp., 363 East 75th St., Chicago 19, Ill.
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Barker & Williamson, Inc., 237 Fairfield Ave., Upper Darby, Pa.
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Burnell & Co., 45 Warburton Ave., Yonkers 2, N.Y.
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Ferranti Electric, Inc., 30 Rockefeller Plaza, New York 20, N.Y.
See advertisement on page 77A

General Radio Co., 275 Massachusetts Ave., Cambridge 39, Mass.
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Kenyon Transformer Co., Inc., 840 Barry St., New York 59, N.Y.
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Mepco, Inc., Troy Hills Rd., Whippany, N.J.
See advertisement on page 128A

United Transformer Corp., 150 Varick St., New York 13, N.Y.
See advertisement on page 13A

(Continued on page 110A)

MOLDED FIBRE

AND

RESIN FIBRE MATERIAL

Diaphragms — Suspensions — Cabinets — Housings — Phono Bases and Special Applications of Fibre or High Impact Resin Fibre Material

HAWLEY PRODUCTS COMPANY
ST. CHARLES, ILLINOIS

Insulation Manufacturers Corporation

ELECTRICAL INSULATION AND INSULATION MATERIALS

CLEVELAND 14: 1231 Superior Ave., N.E.
DAYTON 2: 1315 Mutual Home Building
DETROIT 2: 15 Lawrence Avenue

MILWAUKEE 2: 312 East Wisconsin Ave.
MINNEAPOLIS 3: 1208 Harmon Place
PEORIA 5: 101 Heinz Court

CHICAGO 6: 565 W. Washington Blvd.

INDEX OF PRODUCTS

Acetate, Cellulose
- Sheets, Rolls, and Slit Coils, Kodapak

Adhesive Tapes (With Adhesive on One Side)
- Permacel 20 Cloth Electrical Tapes (formerly Jonflex)
- Permacel 24 Acetate Cloth Electrical Tapes
- Permacel 25 Acetate Film Electrical Tapes
- Texcel (Cellophane) Transparent Adhesive Tapes
- Vartex Varnished Cambric Adhesive Tapes

Asbestos
- Asbestos Woven Listing Tapes and Sleevings, Inmanco Paper and Paper Electrical Tapes, Inmanco

Bakelite, Laminated, Phenolite
- Paper, Linen and Canvas Base Laminated Sheets
- Fiberglas and Asbestos Base Laminated Sheets
- Laminated Bakelite Rods and Tubes
- Fabricated Parts Made from Sheets, Rods, and Tubes

Compounds, Pedigree Insulating
- Impregnating, Sealing, and Filling Compounds

Cotton Tapes, Sleevings, and Twines
- Untreated Cotton Tapes, Stay Bindings, Webbings, and Tying Tapes, Inmanco
- Untreated Silk, Rayon, Nylon and Silk Replacement Tapes, Inmanco
- Untreated Cotton Sleevings—All Standard Colors, Inmanco
- Varnished Cambric Tapes (Bias and Straight Cut), Vartex
- Varnished, Saturated and Impregnated Tubings and Sleevings, Dieflex
- Cotton Armature Twines, Inmanco

End Laminations, Automotive, Inmanco

Fiberglas Woven Glass Textile Products, Owens-Corning
- Untreated and Treated Fiberglas Tapes, Sleevings, and Tying Cords
- Varnished Fiberglas Cloth and Tapes
- Varnished Fiberglas Tubings and Saturated Sleevings
- Mica-Fiberglas Combination Slot Insulations
- Mica-Fiberglas Flexible Sheets and Tapes
- Fiberglas Base Laminated Sheet Bakelite
- Silicone Coated Fiberglas Cloth

Fibre and Fishpaper
- Fishpaper and Hard Fibre Sheets, Rolls, and Slit Coils
- Hard Fibre Rods, Tubes, and Formed Fibre Wedges
- Rogers Fibre Rofico Boards
- Fabricated Parts Made from Fibre Sheets, Rods, and Tubes

Friction and Rubber Tapes

Mica Products, Macallen

Compressed Sheet
- Moulding and Segment Mica Plates for Commutators
- Flexible Mica Plate for Cold Forming or Moulding
- Mica Tubes, Bushings, and Sleeves
- Punched and Moulded Mica Segments, V-Rings, and Slot Cells
- Mica Cloth, Mica Paper, Cellophane-Mica and Other Mica Combinations
- Mica Tapes with Silk, Paper, Rayon, Cellophane, Fiberglas, and Other Backings
- Fiberglas-Mica Combinations in Sheets, Rolls, or Tapes
- Mica Heater Plate and Pure Mica Parts for Heating Appliances
- Silicone Bonded Flexible Mica
- Pure Raw Mica Washers, Discs, and Specialties

Papers and Pressboards
- In Sheets, Cut Strips, Rolls, and Slit Coils
- Manning 300 and 100 All-Rag High-Density Insulating Papers
- Manning 200 and 50 Part-Rag, High-Density Insulating Papers
- Inmanco Tan Woodpulp Insulating Paper—Plain and Gummed
- Inmanco Type 565 All-Rope Insulating Paper
- Manning Pressboard and Fullerboards
- Red Insulating Paper and Crepe Paper Tapes, Inmanco
- Paper Combinations with Cellulose Acetate
- Cuffed and Fabricated Slot Insulation and Other Specialties
- Varnished Papers, Vartex

Resinous Products, Plastic
- Extruded Plastic Tubings, Vartex
- Resinous Tapes and Sheets, Vartex
- Ethocel Sheeting

Silicones, Dow Corning
- Silicone Resin Insulating Varnishes

Silks and Silk Replacements
- Untreated Silk, Rayon, and Silk Replacement Tapes, Inmanco
- Silk and Rayon Backed Mica Tapes
- Varnished Silk and Rayon Cloth, Tapes, and Fabricated Parts
- Vartex Type 128 Varnished Cloth (Silk Replacement)

Twines, Cotton, Linen, and Fiberglas Armature

Varnishes, Pedigree Insulating
- Baking, Air Drying, Sticking, and Finishing Varnishes

Varnished Products and Combinations, Vartex
- Varnished Cambric Cloths and Tapes (Bias and Straight Cut)
- Varslot Combination Slot Insulations (Varnished Cloth and Insulating Paper)
- Varnished Silk and Rayon and Canvas Duck
- Vartex Type 128 Varnished Cloth (Silk Replacement)
- Vartex Varnished Asbestos Cloth
- Varnished Fiberglas Cloth and Tapes
- Varnished Papers
- Silicone-Coated Fiberglas Cloth

Varnished Tubings and Saturated Sleevings, Dieflex
- Flexible Varnished Tubings and Saturated Sleevings
- Fiberglas Flexible Varnished Tubings and Saturated Sleevings
- Ignition Markers and Other Varnished Tubing Specialties

Silicone Treated Varnished Tubings and Sleevings

Wedges, Slot
- Inmanco Hard Maple Wood Wedges
- Fibre Wedges and Formed Fibre Wedges—Inmanco and Peerless
- Fiberglas Laminated Bakelite Wedges

And Other Products To Provide a Complete Insulation Service

PRODUCTS PLUS ENGINEERING SERVICE

Insulation Manufacturers Corporation is the distributor in the industrial Midwest for products of the manufacturers listed. A staff of insulation specialists will be glad to help you apply these materials efficiently to solve your insulation problems. Write for data sheets or phone the nearest representative.

Distributors for THE FOLLOWING MANUFACTURERS

THE MACALLEN COMPANY
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NEW JERSEY WOOD FINISHING COMPANY, Inc.
Varnished Cambric Cloth Tapes
Varnished Fiberglas Products
Vartex Silicone Resin Coated Fiberglas
Extruded Tubing, Resinous Products, etc.

OWENS-CORNING FIBERGLAS CORPORATION
Woven Glass Electrical Textile Products

DOW CORNING CORPORATION
Silicone Insulating Varnishes

THE P. D. GEORGE CO.
"Pedigree" Insulating Varnishes and Compounds

JOHN A. MANNING PAPER COMPANY, Inc.
Manning Insulating Papers and Pressboards

INSULATION MANUFACTURERS CORPORATION
Dieflex Varnished Tubings and Saturated Sleevings
Inmanco Hard Maple Wood Wedges
Fabricated Slot Insulation and Other Specialties

NATIONAL VULCANIZED FIBRE COMPANY
Hard Vulcanized Sheet Fibre, Rods, Tubes
Phenolite Laminated Bakelite Sheets, Rods, and Tubes

HOLLINGSWORTH & VOSE COMPANY
Groton Tan (Inmanco Tan) and other Insulating Papers

AND OTHER OUTSTANDING MANUFACTURERS

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30. INSULATION:
(Also see Ceramics)

A. Cloth
B. Glass Seals
C. Mica
D. Paper
E. Varnished Cambric

Atlantic India Rubber Works, Inc., 571 W. Polk St., Chicago 7, Ill.
See advertisement on page 112A

Insulation Manufacturers Corp., 565 W. Washington Blvd., Chicago 6, Ill. A, B, C, D
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Insuline Corp. of America, 36-02 35th Ave., Long Island City 1, N.Y. E
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Mycalex Corp. of America, 30 Rockefeller Plaza, New York 20, N.Y. and Clifton, N.J. C
See advertisement on page 42, 43

Precision Paper Tube Co., 2062 W. Charleston St., Chicago 47, Ill. D
See advertisement on page 76A

The Vitroseal Corp., 918 Oak St., Wyoming Cincinnati 15, Ohio, B
See advertisement on page 92A

31. JACKS & JACK FIELDS

Bead Chain Mfg. Co., 60 Mt. Grove St., Bridgeport 5, Conn.
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Allen B. DuMont Laboratories, Inc., 42 Harding Ave., Clifton, N.J.
See advertisement on page 28A

General Radio Co., 275 Massachusetts Ave., Cambridge 39, Mass.
See advertisement on page 41A

Industrial Products Co., P.O. Box 148, Danbury, Conn.
See advertisement on page 53A

Insuline Corp. of America, 36-02 35th Ave., Long Island City 1, N.Y.
See advertisement on page 52A

Western Electric Co., 195 Broadway, New York 7, N.Y.
See advertisement on page 2A, 3A

32. KEYS:

A. Switching
B. Telegraph

Western Electric Co., 195 Broadway, New York 7, N.Y. A
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33. LACQUERS:

A. Finishing
B. Fungus Proofing
C. Protecting
D. Waterproofing

Insulation Manufacturers Corp., 565 W. Washington Blvd., Chicago 6, Ill. A, B, C, D
See advertisement on page 109A

34. LOUDSPEAKERS & HEADPHONES

Insuline Corp. of America, 36-02 35th Ave., Long Island City 1, N.Y.
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Radio Corp. of America, 415 S. Fifth St., Harrison, N.J.
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Stephens Mfg. Corp., 10416 National Blvd., Los Angeles 34, Calif.
See advertisement on page 86A

Western Electric Co., 195 Broadway, New York 7, N.Y.
See advertisement on page 2A, 3A

35. MACHINERY, FIXTURES, & TOOLS FOR RADIO-ELECTRONIC MFG.

American Electrical Heater Co., 6110 Cass Ave., Detroit 2, Mich.
Soldering Irons
See advertisement on page 36A

W. H. Brady Co., 262 W. Wells St., Milwaukee 3, Wis.
Paper Code Tape & Dispensors
See advertisement on page 16A

Cambridge Thermionic Corp., 440 Concord Ave., Cambridge 38, Mass.
See advertisement on page 105A

Chatham Electronics Corp., 475 Washington St., Newark 2, N.J.
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Electric Soldering Iron Co., Inc., 3748 W. Elm St., Deep River, Conn.
See advertisement on page 73A

Electro-Seal Corp., 946 Lee St., Des Plaines, Ill.
Hermetically Sealed Containers
See advertisement on page 34A

Insuline Corp. of America, 36-02 35th Ave., Long Island City 1, N.Y.
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36. MAGNETS:

A. Electro
B. Permanent

Electro Engineering Works, 6021 College Ave., Oakland 11, Calif. A
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Indiana Steel Products Co., 6 N. Michigan Ave., Chicago 2, Ill. B
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Inductive Equipment Corp., Quarry Park, Gettysburg, Pa. A
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Magnetic Core Corp., 142 S. Highland Ave., Ossining, N.Y. B
See advertisement on page 60A

Measuring Equipment,
see Testing Equipment

37. METALS:

A. Copper
B. Ferrous
C. Non-Ferrous
D. Precious & Rare

Cohan-Epner Co., Inc., 142 West 14th St., New York 11, N.Y. D
Precious Metal Electro Plating
See advertisement on page 122A

J. M. Ney Co., 171 Elm St., Hartford 1, Conn. D
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38. METERS:

A. Ammeters
B. Frequency Indicating
C. Power Level
D. Vacuum Tube Voltmeters
E. Voltmeters
F. Wattmeters

Andrew Corp., 363 East 75th St., Chicago 19, Ill. A
See advertisement on page 30A

Ballantine Laboratories, Inc., Boonton, N.J. C, D, E
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Alfred W. Barber Laboratories, 34-04 Francis Lewis Blvd., Flushing, N.Y. D
See advertisement on page 110A

Barker & Williamson, Inc., 237 Fairfield Ave., Upper Darby, Pa. D
See advertisement on page 101A

Beta Electronics Co., 1762 Third Ave., New York 29, N.Y. A, D, E
See advertisement on page 14A

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BARBER • QUALITY

VOLTMETERS

Model VM-27 $125.00
AC-DC-RF. Probe 4 mmf input capacity. 5 ranges 1 to 100 volts full scale. A.C. operated. Mirror scale meter. Balanced probe and amplifier circuits. 20 cycle to 300 megacycle frequency range.

Model 31A $125.00
High Voltage R.F. 5 ranges 100 to 10,000 volts full scale. A.C. operated. Input attenuated before rectification. Input 2 mmf at coupler terminals. 100 K.C. to 100 M.C. frequency range.

Model 40 $135.00
High Voltage D.C. 4 ranges 1000 to 30,000 volts full scale. Battery operated. Probe input connection. 30,000 megohms input resistance on all ranges.

Model LKV-300 $60.00
AC-RF. 20 cycle to 300 megacycle frequency range. A.C. operated. 5 ranges 3 to 300 volts full scale. Probe 4 mmf input capacity.

Model 33 $60.00
Pocket electronic volt-ohmmeter. Self-contained battery operation. 6 D.C. ranges 2.5 to 1000 volts full scale. 11 megohms input impedance for voltage ranges. 6 ohm ranges 30 ohms to 3 megohms midscale. Features portability and quick heating.

SPECIALISTS in high grade equipment, present the following instruments designed and manufactured to meet the highest quality demands.

PRICES SUBJECT TO CHANGE

ALFRED W. BARBER Laboratories

34-04R FRANCIS LEWIS BLVD. FLUSHING, NEW YORK

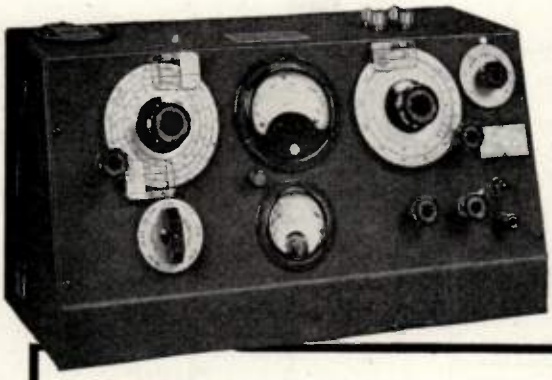
PRECISION MEASURING INSTRUMENTS FOR THE RADIO AND ELECTRONIC INDUSTRY

FM SIGNAL GENERATOR *TYPE 202-B*

RF COVERAGE: 54—216 megacycles in two ranges; accuracy ±0.5%.
FM DEVIATION: Two ranges, 0—80 kc., 0—240 kc., continuously adjustable.
FM DISTORTION: Less than 2% at 75 kc. deviation.
AMPLITUDE MODULATION: One range, 0—50%; calibrations at 30% and 50% modulation.
INTERNAL MODULATING FREQUENCIES: Eight frequencies from 50 cycles to 15 kc.
RF OUTPUT: 0.1 microvolt to 0.2 volt, continuously adjustable by means of 26.5 ohm piston type attenuator.

UNIVERTER *TYPE 203-B*

An FM-AM frequency converter accessory with unity gain for use with 202-B FM Signal Generator.
RF RANGE: 0.4 mc. to 25 mc.
RF INCREMENT DIAL: ±250 kc. in 10 kc. increments.
RF OUTPUT: 0.1 microvolt to 0.1 volt, calibrated output (26.5 ohms); 2 volts max. uncalibrated output (approx. 470 ohms).



Q-METER *TYPE 160-A*

FREQUENCY RANGE: 50 kc. to 75 mc. (±1%, 50 kc.—50 mc.; ±3%, 50 mc.—75 mc.). May be extended down to 1 kc. with external accessory oscillator.
RANGE OF Q MEASUREMENTS, COILS: 50—625.
ACCURACY OF Q MEASUREMENT: In general, ±5%.
RANGE OF Q TUNING CAPACITOR: Main Section, 30—450 mmf. (±1% or ±1 mmf., whichever is greater). Vernier Section, plus 3, zero, minus 3 mmf., (±0.1 mmf.).

Q-METER *TYPE 170-A*

FREQUENCY RANGE: 30 mc. to 200 mc. (±1%).
RANGE OF Q MEASUREMENT: 80—1200.
ACCURACY OF Q MEASUREMENT: In general, ±10%.
RANGE OF Q TUNING CAPACITOR: 11—60 mmf. (±1% or ±0.5 mmf., whichever is greater).

QX-CHECKER *TYPE 110-A*

FREQUENCY RANGE: 100 kc. to 25 mc. using accessory plug-in inductors. A calibration sheet is supplied with each inductor, accurate to within ±3%.
RANGE OF COIL CHECKS: Inductors having values between 10 microhenries and 10 millihenries may be checked against a standard to an accuracy of about ±0.2% provided the Q of the inductor is 100 or greater.
CAPACITANCE RANGE: Capacitance values between about 2—1000 mmf. may be checked against standard by direct substitution, with an accuracy of a few tenths of one mmf., provided Q of capacitors is high.

BEAT FREQUENCY GENERATOR *TYPE 140-A*

FREQUENCY RANGE: 20 cycles to 5 megacycles in two ranges; LOW RANGE: 20 to 30,000 cycles. HIGH RANGE: 30 kilocycles to 5 megacycles. Accuracy ±2 cycles up to 100 cycles, ±2% above 100 cycles.
OUTPUT POWER: One watt, available from a variety of output impedances.
ATTENUATOR: 5 steps; X1.0, X0.1, X.01, X.001, X.0001.
DISTORTION: 5% or less.

Write for further information

BOONTON RADIO Corporation
BOONTON · N·J · U·S·A ·

(Continued from page 110A)

The Daven Co., 191 Central Ave., Newark 4, N.J. B, C
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DeJur Amsco Corp., 45th St. at Northern Blvd., Long Island City, N.Y. A, B
See advertisement on page 29A

Ferranti Electric, Inc., 30 Rockefeller Plaza, New York 20, N.Y. A, E
See advertisement on page 77A

Freed Transformer Co., Inc., 72 Spring St., New York 12, N.Y. D
See advertisement on page 48A

Furst Electronics, North Ave. and Halsted St., Chicago 22, Ill. B, D
See advertisement on page 38A

General Radio Co., 275 Massachusetts Ave., Cambridge 39, Mass. B, D, E
See advertisement on page 41A

Built for applications requiring a constant speed at a given frequency, the design features and efficient performance of Cramer Self-Starting Synchronous Motors provide a superior power plant for time and control instruments. Compact . . . versatile . . . flexible . . . long, dependable service assured.

Where product performance depends on precision timing, Cramer devices — interval, delay, cycle, impulse, percentage — will meet a wide range of commercial and industrial applications. Wherever TIME is a factor of CONTROL . . . you can depend on Cramer.

THE R. W. CRAMER CO., INC.
BOX NO. 22, CENTERBROOK, CONN.

Write today
FOR DETAILED INFORMATION

2CR48

Hewlett-Packard Co., 395 Page Mill Rd., Palo Alto, Calif. B, D
See advertisement on page 10A, 11A

Kay Electric Co., Maple Ave., Pine Brook, N.J. B
See advertisement on page 55A

Lavoie Laboratories, Matawan-Freehold Rd., Morganville, N.J. B
See advertisement on page 99A

Marion Electrical Instrument Co., Manchester, N.H.
See advertisement on page 113A

Measurements Corp., Boonton, N.J. D
See advertisement on page 63A

Hermon Hosmer Scott, Inc., 385 Putnam Ave., Cambridge 39, Mass. Sound Level
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Shallcross Mfg. Co., 520 Pusey Ave., Collingdale, Pa. C, E
See advertisement facing pages 80, 81

Sperry Gyroscope Co., Division of the Sperry Corp., Great Neck, L.I., N.Y. B, C, F
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Triplett Electrical Instrument Co., Bluffton, Ohio, A, B, C, E, F
See advertisement on page 91A

W. M. Welch Scientific Co., 1515 Sedgwick St., Chicago 10, Ill. A, E, F
See advertisement on page 93A

Western Electric Co., 195 Broadway, New York 7, N.Y. B, C
See advertisement on page 2A, 3A

Mica, see Insulation

39. MICROPHONES

Amperite Co., Inc., 561 Broadway, New York 12, N.Y.
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Shure Brothers, Inc., 225 W. Huron St., Chicago 10, Ill.
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The Turner Co., 909-17th St., N.E., Cedar Rapids, Iowa
See advertisement on page 49A

Western Electric Co., 195 Broadway, New York 7, N.Y.
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40. MONITORING EQUIPMENT:

A. Frequency **B. Modulation**

Andrew Corp., 363 East 75th St., Chicago 19, Ill.
See advertisement on page 30A

Barker & Williamson, Inc., 237 Fairfield Ave., Upper Darby, Pa. A, B
See advertisement on page 101A

Allen B. DuMont Laboratories, Inc., 42 Harding Ave., Clifton, N.J. A
See advertisement on page 28A

Federal Telephone & Radio Corp., 100 Kingsland Rd., Clifton, N.J. A, B
See advertisement on page 45A

General Radio Co., 275 Massachusetts Ave., Cambridge 39, Mass. A, B
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Hewlett-Packard Co., 395 Page Mill Rd., Palo Alto, Calif. A, B
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Industrial Television, Inc., 359 Lexington Ave., Clifton, N.J.
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Northern Radio Co., Inc., 143 West 22nd St., New York 11, N.Y. A, B
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Panoramic Radio Corp., 92 Gold St., New York 7, N.Y. A, B
See advertisement on page 69A

Sherron Electronics Co., Div. of Sherron Metallic Corp., 1201 Flushing Ave., Brooklyn 6, N.Y. A, B
See advertisement on page 5A

Sperry Gyroscope Co., Division of the Sperry Corp., Great Neck, L.I., N.Y. A
See advertisement on page 25A

Triplett Electrical Instrument Co., Bluffton, Ohio, B
See advertisement on page 91A

Western Electric Co., 195 Broadway, New York 7, N.Y. A, B
See advertisement on page 2A, 3A

41. MOTOR GENERATORS:

A. Dynamotors **B. Motor Generators**
C. Rotary Converters

Bendix Aviation Corp., Bendix Radio Div., Towson, Md.
See advertisement on page 14A

Carter Motor Co., 2645 N. Maplewood Ave., Chicago 47, Ill. A, B, C
See advertisement on page 18A

42. MOTORS, VERY SMALL

Bendix Aviation Corp., Bendix Radio Div., Towson, Md.
See advertisement on page 14A

Carter Motor Co., 2645 N. Maplewood Ave., Chicago 47, Ill.
See advertisement on page 18A

The R. W. Cramer Co., Inc., Box No. 22, Centerbrook, Conn.
See advertisement on page 112A

A. W. Haydon Co., 111 W. Main St., Waterbury 32, Conn.
See advertisement on page 47A

Kollsman Instrument Division, Square D Co., 80-08 45th Ave., Elmhurst, L.I., N.Y.
See advertisement on page 57A

Sperry Gyroscope Co., Division of the Sperry Corp., Great Neck, L.I., N.Y.
See advertisement on page 25A

43. MOULDED PRODUCTS & MOULDING SERVICES:

A. Cabinets **C. Knobs, etc.**
B. Insulators **D. Plastic Parts**
E. Phenolic Sheet

American Lava Corp., Chattanooga 5, Tenn. B, C
See advertisement on page 7A

(Continued on page 114A)

DESIGNERS · ENGINEERS · MANUFACTURERS of MOLDED RUBBER PRODUCTS

BUMPERS • BUSHINGS • EXTRUSIONS
GASKETS • GROMMETS • MOLDS • RINGS
ROLLS • SHEET • SLAB • SPRING • SPONGE
TIRES • TUBING • VACUUM CUPS • WASHERS
Several Thousand Items in Stock

SINCE 1919
INDUSTRIAL RUBBER PRODUCTS

ATLANTIC INDIA RUBBER WORKS, INC.
571 W. POLK ST. · HARRISON 8290 · CHICAGO 7.
Write for Complete New Catalog!

Marion

means the most in meters

SEALED LIKE A VACUUM TUBE FOR GUARANTEED PERFORMANCE

HM2 HM3

These magnetically shielded 2½" and 3½" meters are dustproof and moistureproof. Unaffected by heat, cold or humidity. Manufactured to JAN specifications, they give peak performance with critical accuracy. Interchangeable round and square colored flanges to fit different panel needs. Unconditionally guaranteed for one year against defects in materials and workmanship. Additional guarantee provides for replacement of any hermetically sealed meter, whether burned out or otherwise abused, on a flat fee basis,* provided seal has not been broken.

*$1.50 — 200 microamperes upward
$2.50—more sensitive than 200 microamperes

MODEL 55

This large 4 5/8" × 4 1/8" instrument with the 100° scale gives real readability for microamps. Superb Marion construction uses Alnico V for sensitive ranges, heavy Alnico for standard ranges. Extreme accuracy assured. Designed for permanent and portable test equipment.

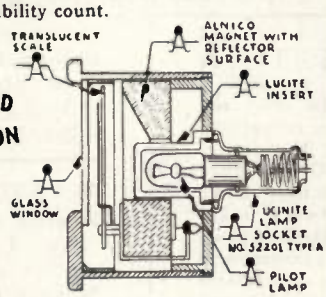
MODEL MC1

Extremely precise and exceptionally rugged, this fan shaped, switchboard type instrument is accurate to 1 %. (Accuracy to 0.5 % on special order.) Shatterproof glass window and magnetic shielding. Available with either standard or mirror scales. Especially suited for telephone, switchboard and test equipment applications.

MODEL 52N

This fine space saving instrument has superior damping characteristics for a meter so small. Built for dependability, it has a large, well aged Alnico magnet and heavy flanged construction for extra strength. Popular for pocket test, portable radio and medical equipment; also for general electrical service where size and dependability count.

THE MARION METHOD OF DIAL ILLUMINATION



Marion Dial Illumination is available on all except hermetically sealed models. It is achieved by use of a transparent lucite cavity and a special Alnico magnet with a reflector-shaped front face to concentrate the rays on the back of the warp-free, translucent dial. The method keeps the unit free from dust and eliminates the danger of using oversize bulbs.

A SPECIAL MARION SERVICE

In addition to manufacturing the finest standard electrical indicating instruments money can buy, Marion will design, engineer and manufacture precision products to meet your most exacting requirements. Let us quote on your specifications.

MODEL 56

Marion makes this new 6 ½" × 5 ¼", bakelite cased meter for equipment calling for easy readability at a distance. The large open face has a 100° scale in a 5 ½" arc. Plenty of room for a multirange scale if necessary. Alnico II construction used for milliamp ranges. Alnico V for microamps. Strong, accurate, efficient, dependable.

MODEL 57S

This superb. Marion-designed milliameter is not just another overgrown 3-inch instrument. It was engineered to the 8 ½" × 7" open face and extra long scale. It has enlarged pole shoes, a higher torque movement and higher damping factor. Accuracy within 1 %. For use in large vacuum tube voltmeters, multitesters and production testing.

MODEL 53SN

Standard Commercial 3 ½" rectangular type. All Alnico construction. Excellent scale distribution characteristics. Ideal for portable test equipment and general electronic equipment application.

MARION ELECTRICAL INSTRUMENT COMPANY

Manchester, New Hampshire

EXPORT DIVISION 458 BROADWAY NEW YORK 13, U. S. A. CABLES MORHANEX

IN CANADA, THE ASTRAL ELECTRIC COMPANY, SCARBORO BLUFFS ONTARIO

(Continued from page 112A)

Bendix Aviation Corp., Pacific Division, 11600 Sherman Way, North Hollywood, Calif.
See advertisement on page 14A

Biwax Corporation, 3445 Howard St., Skokie, Ill. B
See advertisement on page 14A

Erie Resistor Corp., 640 W. 12th St., Erie, Pa. A, C, D
See advertisement on page 37A

General Radio Co., 275 Massachusetts Ave., Cambridge 39, Mass. B, C
See advertisement on page 41A

Hawley Products Co., 333-339 N. 6th St., St. Charles, Ill. B, C
See advertisement on page 108A

Insulation Manufacturers Corp., 565 W. Washington Blvd., Chicago 6, Ill. B, C, D, E
See advertisement on page 109A

Insuline Corp. of America, 36-02 35th Ave., Long Island City 1, N.Y. B, C, D, E
See advertisement on page 52A

Mycalex Corp. of America, 30 Rockefeller Plaza, New York 20, N.Y. and Clifton, N.J.
See advertisement on page 42 & 43B

S. S. White Industrial Division, The S. S. White Dental Mfg. Co., 10 East 40th St., New York 16, N.Y.
See advertisement on page 94A

44. OPTICAL SYSTEMS, MIRRORS, SCREENS & ACCESSORIES.

Radio Corporation of America, 415 S. Fifth St., Harrison, N.J.
See advertisement on page 31A

Valpey Crystal Corp., 1244 Highland St., Holliston, Mass.
See advertisement on page 92A

45. OSCILLATORS:

A. Audio Frequency
B. Radio Frequency
C. Square Wave Generators

Barker & Williamson, Inc., 237 Fairfield Ave., Upper Darby, Pa. A, B, C
See advertisement on page 101A

Bliley Electric Co., 227 Union Station Bldg., Erie, Pa.
See advertisement on page 15A

Boonton Radio Corp., Boonton, N.J. A, B
See advertisement on page 111A

Chatham Electronics Corp., 475 Washington St., Newark 2, N.J. A
See advertisement on page 115A

Collins Radio Company, 855—35th St. N.E., Cedar Rapids, Iowa. B
See advertisement on page 22A, 23A

Freed Transformer Co., Inc., 78 Spring St., New York 12, N.Y. A
See advertisement on page 48A

General Radio Co., 275 Massachusetts Ave., Cambridge 39, Mass. A, B, C
See advertisement on page 41A

Hewlett-Packard Co., 395 Page Mill Rd., Palo Alto, Calif. A, B, C
See advertisement on page 10A, 11A

Insuline Corp. of America, 36-02 35th Ave., Long Island City 1, N.Y.
See advertisement on page 52A

Kay Electric Co., Maple Ave., Pine Brook, N.J. B, C
See advertisement on page 55A

Lavoie Laboratories, Matawan-Freehold Rd., Morganville, N.J. A, B
See advertisement on page 99A

Machlett Laboratories, Inc., 1063 Hope St., Springdale, Conn. B
See advertisement on page 123A

Measurements Corporation, Boonton, N.J. B, C
See advertisement on page 63A

Northern Radio Co., Inc., 143 W. 22nd St., New York 11, N.Y. B
See advertisement facing pages 114A, 115A

Radio Corporation of America, 415 S. 5th St., Harrison, N.J. B, C
See advertisement on page 31A

Sherron Electronics Co., Div. of Sherron Metallic Corp., 1201 Flushing Ave., Brooklyn 6, N.Y. A, B, C
See advertisement on page 5A

Sperry Gyroscope Company, Division of the Sperry Corporation, Great Neck, L.I., N.Y. B
See advertisement on page 25A

Times Facsimile Corp., 229 W. 43rd St., New York 18, N.Y. A
See advertisement on page 90A

Triplett Electrical Instrument Co., Bluffton, Ohio. B
See advertisement on page 91A

Waterman Products Co., 2445 Emerald St., Philadelphia 25, Pa.
See advertisement on page 114A

Western Electric Co., 195 Broadway, New York 7, N.Y. A, B
See advertisement on page 2A, 3A

46. OSCILLOGRAPHS & ACCESSORIES

Chatham Electronics Corp., 475 Washington St., Newark 2, N.J.
See advertisement on page 115A

Allen B. DuMont Laboratories, Inc., Building 16, 1000 Main Ave., Clifton, N.J.
See advertisement on page 28A

Lavoie Laboratories, Matawan-Freehold Rd., Morganville, N.J.
See advertisement on page 99A

Sherron Electronics Co., Div. of Sherron Metallic Corp., 1201 Flushing Ave., Brooklyn 6, N.Y.
See Advertisement on page 5A

47. PANELS

Insuline Corp. of America, 36-02 35th Ave., Long Island City 1, N.Y.
See advertisement on page 52A

Western Electric Co., 195 Broadway, New York 7, N.Y.
See advertisement on page 2A, 3A

48. PHONOGRAPH & TRANSCRIPTION PICKUPS:

A. Crystal Cartridges
B. Magnetic Cartridges
C. Playback Arms, only
D. Preamplifiers, see Amplifiers

Ferranti Electric, Inc., 30 Rockefeller Plaza, New York 20, N.Y. B
See advertisement on page 77A

Radio Corporation of America, 415 S. 5th St., Harrison, N.J. A
See advertisement on page 31A

Shure Brothers, Inc., 225 W. Huron St., Chicago 10, Ill.
See advertisement on page 83A

(Continued on page 116A)

WATERMAN PRODUCTS

QUALITY TESTING INSTRUMENTS

THE POCKETSCOPE MODEL S · 11 · A

Industrial and television oscilloscope for radio and industrial electronic servicing as well as for educational applications. COMPACT . . . 7" high . . . 5" wide . . . 11" deep—LIGHT . . . only 8¾ lbs. . . . COMPLETE . . . measures AC and DC with sensitivity better than 100 mv RMS/inch with fidelity within . . . 2 db from 0 to 200 kc; linear sweep from 3 cycles to 50 kc; blanking of return trace; intensity amplifier . . . direct connection to plates . . . low input isolated from case—retractable light shield . . . leather handle . . . detachable graph screen.

RAYONIC CATHODE RAY TUBE 3 M P 1

A 3" cathode ray tube for oscilloscope applications. P1 medium persistence screen, only 8" long. Zero first-anode current gun with high voltage accelerator electrode. Deflecting plates to separate terminals on duo-decal socket. Operation on voltages from 500 to 2500 volts. Accessories as sockets, magnetic shields, and detachable graph screens are available.

WATERMAN PRODUCTS CO., INC.
PHILADELPHIA 25, PENNA., U.S.A.

NORTHERN RADIO COMPANY

INCORPORATED

A COMPLETE LINE OF HIGH QUALITY COMMUNICATIONS EQUIPMENT

Engineered by S. A. BARONE CO.

- TRANSMITTERS
- DIVERSITY RECEIVERS
- FREQUENCY SHIFTERS
  Standard and Low Frequency Types
- LINE AMPLIFIERS
- TONE FILTERS
- DEMODULATORS
- TONE KEYERS
- FREQUENCY SHIFT CONVERTERS
- MONITORS
- MASTER OSCILLATORS

DUAL DIVERSITY RECEIVER

Type 110 Model 1

The Type 110 Model Receiver is used for dual spaced diversity reception in high speed radio teletype, telegraph or telephone service, using any common modulation, such as FS, CW, ICW, phone, etc. The complete receiver is housed in a rack type, fully enclosed cabinet. It is provided with specially modified Super-Pro receivers, monitor speaker, IF monitor, master crystal oscillator, and the necessary patching arrangements. It can be supplied with any combination of terminal equipment for reception of radio teletype, undulator tape and program service, or for remote use where the intelligence is transmitted via land-line or UHF link.

In the illustration on this page the receiver is shown with terminal equipment as recommended for general communications usage. The units are (top to bottom) Monitor speaker, Receiver #1, Master Crystal Oscillator, Receiver #2, Patching Panel, IF Monitor, Converter, Tone Keyer, Blank, Receiver #1 Power, Receiver #2 power. For special features of this receiver see individual units described in the following pages.

DUAL DIVERSITY RECEIVER

FREQUENCY SHIFT CONVERTER
Type 107 Model 2

A dual channel unit, used with frequency shift receiving systems to convert the mark and space tones from the output of single or diversity receivers, into DC pulses capable of operating a teletypewriter, tape recorder or other device so operated. This unit may also be used as a demodulator when receiving make and break CW or ICW signals.

It is provided with an unusual 2" oscilloscope tuning pattern which indicates proper receiver adjustment of both mark and space frequencies, either during initial setup or under actual keying conditions. This pattern and a specially designed discriminator, coupled with a high degree of limiting, make this unit the outstanding performer in its field.

Input FS Limits.....100 to 1000 cps frequency shift. Mark frequency set at 2975 cps.

CW-ICW input .....400 to 7500 cps.

Output .....1. Polar DC pulses. 60 ma in 1800 ohm external load. One side grounded.
2. Neutral DC Pulses. ± 30 ma in 1800 ohms load. Center grounded.
3. May be operated into any impedance from 100 to 100,000 ohms.

Keying Speed: Up to 600 w.p.m.

TONE KEYER
Type 102 Model 1

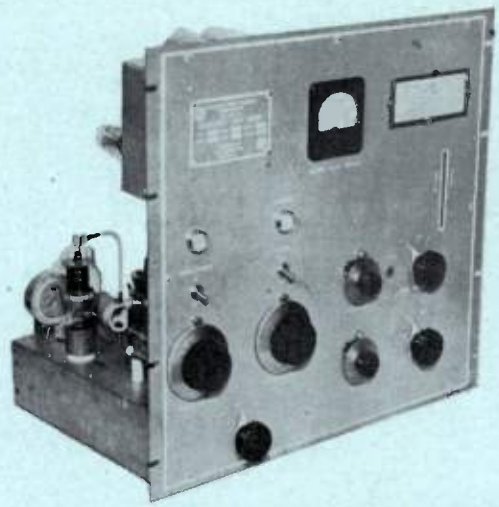
A complete, compact, flexible and versatile tone keyer. Provided with a stable RC oscillator which generates standard tones of 425, 765, 1105, 1445, 1785 and 2125 cps. A balanced output stage provides for various types of keying of any one of the above tones or of an injected external tone.

Keying Input: .....1. Relay contacts.
2. Amplitude modulated (keyed) tone, 300 to 10,000 cps.
3. DC pulses, positive or negative, polar or neutral.

Input Level .....1. Audio — 0 db.
2. DC: ± 10 volts.
3. DC current pulses ± 30 ma neutral or 3 to 60 ma polar.

Output Impedance: 600 ohms balanced H pad.

Keying Speed .....1000 words per minute.



FREQUENCY SHIFT KEYER
Type 105 Model 2

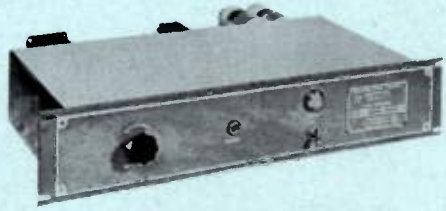
A high stability radio frequency oscillator, the output frequency of which may be shifted in accordance with the variation of a pulse or audio signal for F.S. Transmission of teletype, telegraph, FM Telephone, fascimile or telephoto.

Frequency Range .....2 to 5.5 megacycles
Frequency Shift .....Linear to 1000 cycles
Output Power .....Adjustable to 2 watts
Keying Speed .....600 w. p. m.
Stability .....Better than ± 4 cps for 50° C. change in ambient.

CHANNEL TONE FILTER
Type STF Model 1

The Channel Tone Filter is designed for use in multichannel carrier telegraph systems, where its function is generally to separate into single frequencies the complex voltage transmitted by the system. It consists of six band pass filter networks with a common input and separate outputs, one output for each standard frequency.

Frequency Range: 425, 765, 1105, 1445, 1785 and 2125 cps.
Keying Speed: 200 w.p.m.
Impedance: 600 ohms input and output.
Input Level: + 6 db maximum.
Output Level: —4 db for maximum input.



LINE AMPLIFIER
Type 103 Model 1

A general purpose line amplifier for communications work, featuring flat frequency response, low noise and distortion.

Input and Output Impedance: .....(600 ohms balanced; 150 ohms unbalanced).
Transmission Gain: .....46 VU.
Input Level: .....For rated ouput of + 23 VU —23 VU to + 23 VU.
Distortion: .....Less than 1% at rated output level.
Noise Level: .....80 VU below rated output.
Frequency Response: ....± 1 db 100 to 10,000 cps.

DEMODULATOR
Type 104 Model 3

This equipment is used in communication systems where intelligence is transmitted by means of amplitude modulated tones. It converts these tones to DC pulses and its output is capable of operating a teletypewriter, tape recorder, or other DC operated device. The unit consists of a tone amplifier driving a full wave rectifier, operating into a pair of DC amplifiers.

Input Tone: .....Any single amplitude modulated tone (Keyed) between 400 and 10,000 cps.

Input Level .....—20 to +30 VU.

Output .....1. Polar DC pulses of 60 ma in 1800 ohm external load, one side grounded.
2. Neutral DC pulses of ± 30 ma in 1800 ohm external load, center grounded.
3. May be operated into any impedance from 100 to 100,000 ohms.

Keying Speed .....Up to 600 w.p.m.

MASTER CRYSTAL OSCILLATOR
Type 108 Model 1

This unit replaces, with common crystal controlled signals, the high frequency and beat frequency oscillators of single or diversity receivers. Any one of four crystals may be selected in the high frequency oscillator, and either of two crystals in the IF oscillator. The high frequency oscillator is followed by a tuned buffer stage, and all RF outputs from the unit are on low impedance co-axial lines. A front panel control permits varying the output of the HF oscillator at least ± 50 cycles for alignment with the incoming signal.

Output .....75 ohms adjustable to 10 volts.
RF: 2 to 30 megacycles.
IF: 455 to 475 Kc.

INTERMEDIATE FREQUENCY MONITOR
Type 111 Model 1

The IF Monitor is used with diversity reception to sample the Intermediate Frequency of each individual receiver. It is particularly useful in tuning each receiver accurately to CW, ICW or phone signals when no receiver BFO is used.

It consists of an IF oscillator which is heterodyned with the sample from the receiver to produce a beat tone. The beat is amplified to headphone level for monitoring purposes.

FREQUENCY AND SHIFT MONITOR
Type 106 Model 2

This equipment is designed as a secondary standard to monitor the frequency and amount of shift of transmitter carrier outputs. It is particularly intended to measure the frequency shift of a mark and space (F. S.) signal, either when setting up for traffic or under normal keying conditions. The unit consists of a highly stable temperature controlled crystal oscillator with provision for selecting any one of eight crystals, a harmonic generator, a detector and an audio amplifier. The audio output frequency is read on an external audio frequency meter.

Frequency Range .....2.5 to 30 megacycles

Frequency Shift Range .....30 to 15,000 cps

RF Input Level .....100 microvolts minimum

Oven Temperature .....60° ± 0.1° C.

LOW FREQUENCY SHIFT KEYER
Type 109 Model 1

This equipment was designed to meet the requirements of a simple, flexible, yet highly stable, Frequency Shift Keyer, to operate in the 50 to 500 Kilocycle region. The low output frequencies are derived by first generating a basic 2 MC frequency from a 1.8 MC crystal oscillator, and a 200 KC reactance tube oscillator. The 2 MC basic frequency is heterodyned with a frequency determining crystal oscillator in the range of 2050 to 2500 KC. to produce the output frequency of 50 to 500 K.C.

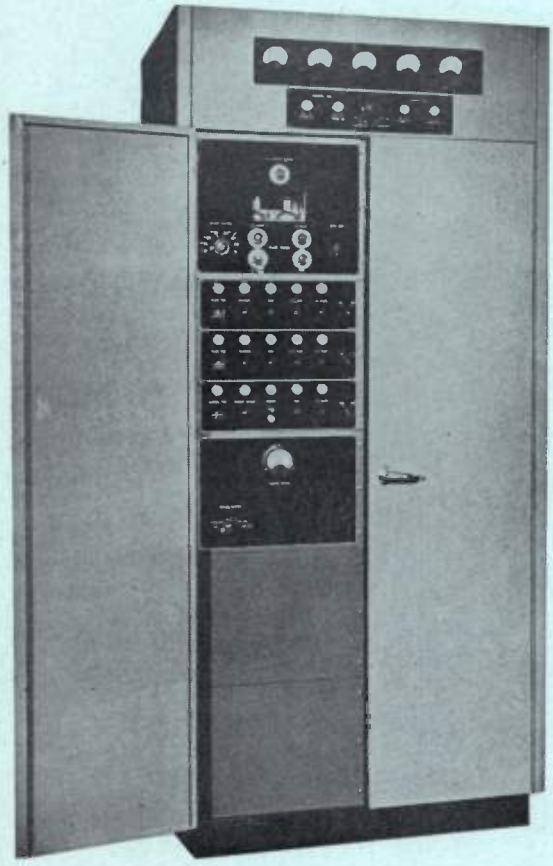
One of the many features of this equipment is the absence of circuit tuning controls. Changing frequency requires simply changing the selector switch to the crystal for the desired frequency. All subsequent circuits are low pass and require no adjustment.

Frequency Shift: .....30 — 250 cps.

Output Power: .....2 watts.

Keying Signal: .....DC pulses 30 to 100 volts polar or neutral, positive or negative.

Keying Speed: .....150 w.p.m.



RADIO TRANSMITTER
Type 500 Model 1

The Type 500 Model 1 series equipments are designed for a maximum of flexibility in single or multichannel transmitter installations for aircraft, point to point communications, emergency and other services. They are capable of 500 watts RF output on CW telegraph, teletype, voice or facsimile, using either amplitude, or frequency shift keying. The equipment may be completely operated from a remote point by means of telephone lines. The transmitters are constructed on the add-a-unit principle with the basic cabinet having provision for two RF channels, power control unit, four power supply units and two modulators.

The Unit illustrated is equipped for single channel FM and AM operation and contains, from top to bottom in door opening: High frequency (108-162 mc) RF Unit, Control Unit, High Level Modulator Unit, P.A. Power Supply, Modulator Power Supply.

All RF channels, power supplies and modulators are available separately and are interchangeable in the cabinet space provided. The same type power supply is used for RF and modulator units, allowing any desired combination from a basic CW channel of one RF unit and one power supply, up to two complete simultaneously operated phone channels per unit frame assembly.

Power Output .....500 watts CW on all frequencies.
500 watts AM on all frequencies.

Frequency Range .....Low Frequency: 125-525 KC.
Medium Frequency: 2-18 mc.
High Frequency: 108-162 mc.

Type of Emission and Modulation:
1. CW telegraph (A-1))
(Maximum speed 600 w.p.m.)
2. FS telegraph (F-1)
(External FS Keyer)
3. Tone modulated telegraph (A-2)
4. Telephone (A-3) amplitude modulated.
5. FM telephone on high frequency band.

ENGINEERING SERVICE FOR FREQUENCY SHIFT

The Northern Radio Company, recognizing the need in the industry for an organization concentrating exclusively on the design and production of quality communication equipment, particularly frequency shift, has built an organization which possesses a wealth of knowledge and experience in this field. This group includes some of the pioneers in the development of frequency shift and high power communication transmitters. We are in a position to design and equip for your specific needs, complete systems for transmission and reception, by FS or CW; Morse, radio-teletype, radio-photo, facsimile, or voice.

These systems can be furnished complete, including all terminal equipment, line channelizing systems, transmitters, receivers and antennas, designed specifically for point to point communications. We solicit your inquiries regarding this service.

Each unit in the Northern Radio Company line was designed, in cooperation with both government and commercial operating agencies, to fill the needs of the communications industry, and all are enjoying world wide acceptance and application as outstanding performers in the field.

NORTHERN RADIO COMPANY

INCORPORATED

MAIN OFFICE AND PLANT
143 West 22nd Street New York 11, N. Y.
WAtkins 9-9117-8-9

SALES DEPARTMENT
453 West 47th Street New York 19, N. Y.
PLaza 7-8575

CHATHAM ELECTRONIC TUBES and EQUIPMENT

Tubes listed on this page can be supplied direct from stock. Many other types are also available for immediate delivery. Write for catalog today. CHATHAM also designs, develops and manufactures special tubes to exact customer specification. Inquiries regarding this service are invited.

CHATHAM 866-A RECTIFIER

A rugged half wave Mercury Vapor rectifier to withstand high peak inverse voltages. Heavy duty filament. Fil. 2.5 volts, 5.0 amp. . . . Peak inverse anode voltage 10,000 volts, .25 amp. average anode current.

CHATHAM 5594 THYRATRON

Xenon filled thyratron. Operates through ambient temperatures from —55° C to +90° C without auxilliary equipment to maintain bulb temperature. Fil. 2.5 volts, 5.0 amperes . . . Peak inverse 5000 volts; anode current 0.5 amps. average, 2.0 amps. peak.

CHATHAM 2050 THYRATRON

A Xenon filled shield grid thyratron for grid controlled rectifier service. Permits use of high resistance in grid current. Heater 6.3 volts, 0.6 amp. . . . Peak inverse plate voltage 1300 volts, average anode current 100 MA.

CHATHAM 884 THYRATRON

An Argon filled thyratron for use as a sweep circuit oscillator in cathode ray tube circuits. Stable oscillator. Heater 6.3 volts, 0.6 amp. . . . Peak forward plate voltage 300 volts, 75 ma. average plate current.

CHATHAM 4B32 RECTIFIER

A rugged half wave Xenon filled rectifier. Operates in any position throughout an ambient temperature range of —75° C to +90° C Fil. 5 volts, 7.5 amp. . . . Inverse peak anode voltage 10,000 volts, 1.25 amp. average anode current.

CHATHAM 2D21 THYRATRON

A Xenon filled shield grid thyratron for grid controlled rectifier service. Permits use of high resistance in the grid circuit. Heater 6.3 volts .6 amp. . . . Inverse peak plate voltage 1300 volts, 100 ma. average plate current.

CHATHAM 1Y2 RECTIFIER

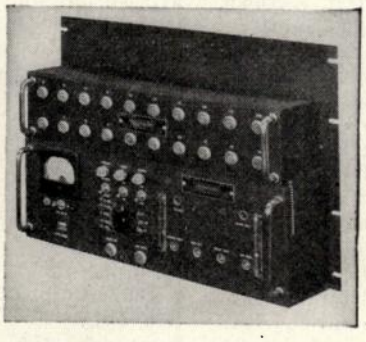
High voltage vacuum rectifier for Television, Precipitrons, and similar applications. Low filament power and negligible dielectric loss permit efficient operation from an R. F. supply. Fil. 1.25 volts, 265 ma. . . . Inverse Peak plate voltage 50,000 volts, 2 ma. average plate current, 18 ma. peak plate current.

CHATHAM 3B28 RECTIFIER

This rugged half wave Xenon filled rectifier will operate in any position and throughout an ambient temperature range of —75° C. to +90° C. Fil. 2.5 volts, 5.0 amp. . . . Inverse peak anode voltage 10,000 volts, .25 amp. average anode current.

CHATHAM 1Z2 RECTIFIER

A small bulb high voltage vacuum rectifier. Low cathode heating power and low dielectric losses make tube suitable for radio frequency supply circuits. Fil. 1.5 volts, .290 amp. . . . Inverse peak plate voltage 20,000 volts, 2 ma. average plate current, 10 ma. peak plate current.

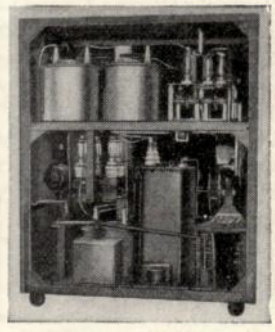


Pulse life test equipment built by CHATHAM checks receiver type tubes under pulse operating conditions.

CUSTOM BUILT ELECTRONIC EQUIPMENT

CHATHAM specializes in the development, design, and construction of custom-built electronic equipment to exactly meet customers' requirements. Our capable staff of engineers will furnish prompt estimates or, if desired, will call to discuss your problem personally. Call or write today for complete information.

Write today for the informative CHATHAM catalog. For free copy please address requests on company letterhead.



5 Megawatts radar modulator built by CHATHAM to rigid government standards.

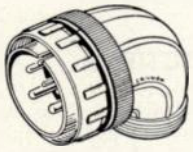
CHATHAM ELECTRONICS · INC

475 WASHINGTON STREET, NEWARK 2, NEW JERSEY

Cannon Plugs

FOR THE RADIO ENGINEER

EIGHT OF 13 TYPE SERIES

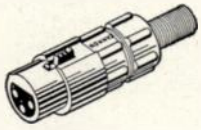


TYPE AN

has greatest number of inserts, variety of amperages and voltages.

TYPE K

and RK similar to "AN" but an exclusive Cannon product, more rugged than "AN".

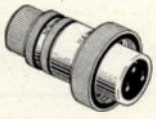


TYPE XL

Fast growing in popularity as the leading low cost microphone connector.

TYPE X

3 insert arrangements; friction type engagement.



TYPE XK

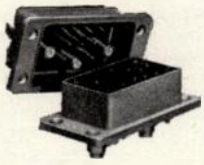
Same inserts as "X" but with coupling nut design.

TYPE O

Oval type mike plug, with latchlock, 3 contacts.

TYPE P

Standard sound and microphone series in 7 insert arrangements.



TYPE DP

Rack & panel type connectors with coaxials.

Contact a Cannon Electric Distributor in your town or write direct to factory for further information and prices on the above eight type series, and Type TQ, Battery Connectors, "M" Power Connector and Switchboard Connector series not shown above. C-47 Catalog summarizes the 13. Address Dept. H-377.

SINCE 1915

CANNON ELECTRIC

Development Company

3209 HUMBOLDT ST., LOS ANGELES 31, CALIF.

IN CANADA & BRITISH EMPIRE:
CANNON ELECTRIC CO., LTD., TORONTO 13, ONT.

WORLD EXPORT (Excepting British Empire):
FRAZAR & HANSEN, 301 CLAY ST., SAN FRANCISCO

(Continued from page 114A)

Western Electric Co., 195 Broadway, New York 7, N.Y. B, C
See advertisement on pages 2A, 3A

49. PILOT LIGHTS & ASSEMBLIES

The Dial Light Co. of America, 900 Broadway, New York 3, N.Y.
See advertisement on page 75A

Drake Manufacturing Co., 1713 W. Hubbard St., Chicago 22, Ill.
See advertisement on page 26A

A. W. Franklin Mfg. Corp., 43-20 34th St., Long Island City 1, N.Y.
See advertisement facing pages 48, 49

Western Electric Co., 195 Broadway, New York 7, N.Y.
See advertisement on pages 2A, 3A

50. PLASTICS:

A. Raw Materials **B. Rods** **C. Sheets**

General Aniline & Film Corp., 444 Madison Ave., New York 22, N.Y. A
See advertisement on page 39A

Insulation Manufacturers Corp., 565 W. Washington Blvd., Chicago 6, Ill. B, C
See advertisement on page 109A

Insuline Corp. of America, 36-02 35th Ave., Long Island City 1, N.Y.
See advertisement on page 52A

Mycalex Corp. of America, 30 Rockefeller Plaza, New York 20, N.Y. & Clifton, N.Y. B, C
See advertisement on pages 42, 43

51. PLUGS

Cannon Electric Development Co., 3209 Humboldt St., Los Angeles 31, Calif.
See advertisement on page 116A

The Electro Motive Mfg. Co., Inc., South Park & John Sts., Willimantic, Conn.
See advertisement on page 33A

A. W. Franklin Mfg. Corp., 43-20 34th St., Long Island City 1, N.Y.
See advertisement facing pages 48, 49

General Radio Co., 275 Massachusetts Ave., Cambridge 39, Mass.
See advertisement on page 41A

Industrial Products Co., P.O. Box 148, Danbury, Conn.
See advertisement on page 53A

Insuline Corp. of America, 36-02 35th Ave., Long Island City 1, N.Y.
See advertisement on page 52A

Western Electric Co., 195 Broadway, New York 7, N.Y.
See advertisement on page 2A, 3A

52. POWER SUPPLIES

American Television and Radio Co., 300 E. 4th St., St. Paul 1, Minn.
See advertisement on page 40A

Barker & Williamson, Inc., 237 Fairfield Ave., Upper Darby, Pa.
See advertisement on page 101A

Beta Electronics Co., 1762 Third Ave., New York 29, N.Y.
See advertisement on page 14A

Chatham Electronics Corp., 475 Washington St., Newark 2, N.J.
See advertisement on page 115A

Collins Radio Company, 855 35th St. N.E., Cedar Rapids, Iowa
See advertisement on page 22A, 23A

Allen B. DuMont Laboratories, Inc., 42 Harding Ave., Clifton, N.J.
See advertisement on page 28A

Electro Engineering Works, 6021 College Ave., Oakland 11, Calif.
See Advertisement on page 32A

Federal Telephone & Radio Corp., 100 Kingsland Rd., Clifton, N.J.
See advertisement on page 45A

Ferranti Electric, Inc., 30 Rockefeller Plaza, New York 20, N.Y.
See advertisement on page 77A

Furst Electronics, North Ave. and Halsted St., Chicago 22, Ill.
See advertisement on page 38A

General Radio Co., 275 Massachusetts Ave., Cambridge 39, Mass.
See advertisement on page 41A

Radio Receptor Co., Inc., 251 W. 19th St., New York 11, N.Y.
See advertisement on page 76A

Sherron Electronics Co., Div. of Sherron Metallic Corp., 1201 Flushing Ave., Brooklyn 6, N.Y.
See advertisement on page 5A

The Superior Electric Co., 83 Laurel St., Bristol, Conn.
See advertisement on page 107A

Western Electric Co., 195 Broadway, New York 7, N.Y.
See advertisement on page 2A, 3A

53. PUMPS, VACUUM

W. M. Welch Scientific Co., 1515 Sedgwick St., Chicago 10, Ill.
See advertisement on page 93A

Racks, see Chassis

54. RADAR EQUIPMENT & ASSOCIATED APPARATUS. (Also see Aircraft & Airport Eq.)

Acme Electric Corp., 44 Water St., Cuba, N.Y.
See advertisement on page 4A

Barker & Williamson, Inc., 237 Fairfield Ave., Upper Darby, Pa.
See advertisement on page 101A

Bendix Aviation Corp., Pacific Division, 11600 Sherman Way, North Hollywood, Calif.
See advertisement on page 14A

Chatham Electronics Corp., 475 Washington St., Newark 2, N.J.
See advertisement on page 115A

The Daven Company, 191 Central Ave., Newark 4, N.J.
See advertisement on page 27A

Allen B. DuMont Laboratories, Inc., 1000 Main Ave., Clifton, N.J.
See advertisement on page 28A

Federal Telephone & Radio Corp., 100 Kingsland Rd., Clifton, N.J.
See advertisement on page 45A

Lavoie Laboratories, Matawan-Freehold Rd., Morganville, N.J.
See advertisement on page 99A

Panoramic Radio Corp., 92 Gold St., New York 7, N.Y.
See advertisement on page 69A

Radio Receptor Co., Inc., 251 W. 19th St., New York 11, N.Y.
See advertisement on page 76A

(Continued page 117A)

(Continued from page 116A)

Sherron Electronics Co., Div. of Sherron Metallic Corp., 1201 Flushing Ave., Brooklyn 6, N.Y.
See advertisement on page 5A

Sperry Gyroscope Company, Division of the Sperry Corporation, Great Neck, L.I., N.Y.
See advertisement on page 25A

Western Electric Co., 195 Broadway, New York 7, N.Y.
See Advertisement on pages 2A, 3A

55. RADIO RECEIVERS:

A. Broadcast **D. Freq. Modulation**
B. Communications **E. Special Purpose**
C. Fixed Frequency **F. Television**

Aircraft Radio Corp., Boonton, N.J.
See advertisement on page 98A

Barker & Williamson, Inc., 237 Fairfield Ave., Upper Darby, Pa. C, E
See advertisement on page 101A

Bendix Aviation Corp., Pacific Division, 11600 Sherman Way, North Hollywood, Calif.
See advertisement on page 14A

Chatham Electronics Corp., 475 Washington St., Newark 2, N.J. E
See advertisement on page 115A

Collins Radio Company, 855 35th St. N.E., Cedar Rapids, Iowa. B, C, E
See advertisement on page 22A, 23A

Allen B. DuMont Laboratories, Inc., Building 16, 2 Main Ave., Clifton, N.J.
See advertisement on page 28A

Federal Telephone & Radio Corp., 100 Kingsland Rd., Clifton, N.J. A, B, E
See advertisement on page 45A

Industrial Television, Inc., 359 Lexington Ave., Clifton, N.J. F
See advertisement on page 54A

Lavoie Laboratories, Matawan-Freehold Rd., Morganville, N.J. A, C
See advertisement on page 99A

Measurements Corporation, Boonton, N.J. E
See advertisement on page 63A

Northern Radio Co., Inc., 143 W. 22nd St., New York 11, N.Y. B, E
See advertisement facing pages 114A, 115A

Radio Receptor Co., Inc., 251 W. 19th St., New York 11, N.Y. B, C, E
See advertisement on page 76A

Sherron Electronics Co., Div. of Sherron Metallic Corp., 1201 Flushing Ave., Brooklyn 6, N.Y. C
See advertisement on page 5A

Sperry Gyroscope Company, Division of the Sperry Corporation, Great Neck, L.I., N.Y. B, D, E
See advertisement on page 25A

Sylvania Electric Products, Inc., 500 Fifth Ave., New York 18, N.Y. Emporium, Pa.
See advertisement on page 51A

Western Electric Co., 195 Broadway, New York 7, N.Y. B, C, D, E
See advertisement on page 2A, 3A

56. RECORD CHANGERS.

Sylvania Electric Products, Inc., 500 Fifth Ave., New York 18, N.Y. and Emporium, Pa.
See advertisement on page 51A

V-M Corporation, Benton Harbor, Mich.
See advertisement on page 92A

57. RECORDING EQUIP. & SUPP.:

A. Blanks **D. Needles**
B. Cutting Heads **E. Turntables & Machines**
C. Magnetic Wire Recorders

Arlington Electric Products, Inc., 18 W. 25th St., New York 10, N.Y. C
See advertisement on page 106A

Audio Devices, Inc., 444 Madison Ave., New York 22, N.Y. A, D
See advertisement on page 9A

Collins Radio Company, 855 35th St. N.E., Cedar Rapids, Iowa. B, E
See advertisement on page 22A, 23A

C. G. Conn, Ltd., Electronics Division, 1101 E. Beardsley Ave., Elkhart, Ind. E
See advertisement on page 117A

Indiana Steel Products Co., 6 N. Michigan Ave., Chicago 2, Ill. B
See advertisement on page 118A

Industrial Products Co., P.O. Box 148, Danbury, Conn. B
See advertisement on page 53A

Lavoie Laboratories, Matawan-Freehold Rd., Morganville, N.J. E
See advertisement on page 99A

Linde Air Products Co., Unit of Union Carbide & Carbon Corp., 30 E. 42nd St., New York 17, N.Y.
Synthetic Industrial Gems
See advertisement on page 61A

Presto Recording Corp., Paramus, N.J.
See advertisement on page 70A, 71A

Shure Brothers, Inc., 225 W. Huron St., Chicago 10, Ill. B
See advertisement on page 83A

Stephens Mfg. Corp., 10416 National Blvd., Los Angeles 34, Calif.
See advertisement on page 86A

Sylvania Electric Products, Inc., 500 Fifth Ave., New York 18, N.Y. Emporium, Pa. C
See advertisement on page 51A

The Turner Co., 909 17th St. N.E., Cedar Rapids, Iowa. B
See advertisement on page 49A

Western Electric Co., 195 Broadway, New York 7, N.Y. C
See advertisement on page 2A, 3A

58. RECTIFIERS:

A. Metallic **C. Vacuum Tube. (Also see Power Supp.)**
B. Meter Rectifiers

American Television and Radio Co., 300 East 4th St., St. Paul 1, Minn. A
See advertisement on page 40A

Chatham Electronics Corp., 475 Washington St., Newark 2, N.J. C
See advertisement on page 115A

Federal Telephone & Radio Corp., 100 Kingsland Rd., Clifton, N.J. A, B, C
See advertisement on page 45A

Freed Transformer Co., Inc., 72 Spring St., New York 12, N.Y. C
See advertisement on page 48A

Inductive Equipment Corp., Quarry Park, Gettysburg, Pa. A, B, C
See advertisement on page 120A

Machlett Laboratories, Inc., 1063 Hope St., Springdale, Conn. C
See advertisement on page 123A

(Continued on page 118A)

● **INSTANTLY** ... direct reading. No computation.
● **ACCURATELY** ... to a frequency determination of 0.05%.
● **VISUALLY** ... at the turn of the dial indicator knob.

Used effectively in leading laboratories, such as: Harvard University, Bell Aircraft Corp., and Hamilton Standard Propellers ... for measuring natural frequencies or speed of rotating objects, checking or calibrating tachometers, oscillators, impulse generators, similar equipment.

C. G. CONN LTD., DEPT. 713
ELKHART, IND.

Stroboconn

Write for Free Folder

Please send *free* Stroboconn folder containing information about operation and application of this new precision instrument. I understand this places me under no obligation.

Name_____ Position_____
Company_____
Address_____
City_____ Zone____ State_____

PERMANENT MAGNETS
by INDIANA STEEL

Pioneer in the design and development of permanent magnets . . . world's largest supplier and only exclusive manufacturer of permanent magnets of all types . . . producer of bar, cast, and sintered magnets for over 25,000 applications.

Sizes and shapes for your every purpose. Modern, functional, efficient design in

- Alnico
- Cunico
- Cunife
- Vectolite
- Chromium
- Cobalt
- Tungsten
- Silmanal
- Indalloy

Manufacturers of HYFLUX Recording Tape and play-back heads.

We invite you to consult with our engineers regarding your magnetic problems. Our forty years of permanent magnet experience and our unequalled design and production facilities are at your service.

INDIANA STEEL PRODUCTS CO.
Producers of "Packaged Energy"
6 N. MICH. AVE., CHICAGO 2, ILL.
Specialists in permanent magnets since 1910

WHERE TO LOOK IT UP

Product information in this Yearbook is grouped in basic engineering classifications. Under each firm, in the alphabetical file, we listed as many products as we were sure would interest engineers, for 2100 companies. (Part II) Use this Alphabetical List to find the line of items made by each firm.

Listings by Products are given in Part III for our advertisers. These listings are backed by product advertising to which a cross reference is shown under each firm, as well as sub-classification detail.

KEY TO INDEXES

Alphabetical Firm Index 1-96A
Index to Advertisers 132A
Index to Product Classes 1A, 36A, 80A, 88A, 93A, 97A, 128A
Product Classifications 102A
Product Listings start 98A
Part I, IRE Membership
Part II, Companies 1-96A
Part III, Products 97A

(Continued from page 117A)

Radio Corporation of America, 415 S. Fifth St., Harrison, N.J. C
See advertisement on page 31A

Radio Receptor Co., Inc., 251 W. 19th St., New York 11, N.Y. A
See advertisement on page 76A

Sylvania Electric Products, Inc., 500 Fifth Ave., New York 18, N.Y. Emporium, Pa.
See advertisement on page 51A

Western Electric Co., 195 Broadway, New York 7, N.Y. A, B, C
See advertisement on page 2A, 3A

Regulators, Voltage, see Voltage Regulators

59. RELAYS:

A. Keying **B. Power** **C. Stepping** **D. Telephone Types** **E. Time Delay** **F. Vacuum Enclosed**

Aircraft Radio Corp., Boonton, N.J.
See advertisement on page 98A

Amperite Company, Inc., 561 Broadway, New York 12, N.Y. E
See advertisement on page 8A

Andrew Corporation, 363 E. 75th St., Chicago 19, Ill.
See advertisement on page 30A

Collins Radio Company, 855 35th St. N.E., Cedar Rapids, Iowa
See advertisement on page 22A, 23A

The R. W. Cramer Co., Inc., Box No. 22, Centerbrook, Conn. E
See advertisement on page 112A

Federal Telephone & Radio Corp., 100 Kingsland Rd., Clifton, N.J. D
See advertisement on page 45A

A. W. Haydon Co., 111 W. Main St., Waterbury 32, Conn. E
See advertisement on page 47A

J. M. Ney Company, 171 Elm St., Hartford 1, Conn. Relay Contacts.
See advertisement on page 124A

Western Electric Co., 195 Broadway, New York 7, N.Y. A, B, D, F
See advertisement on page 2A, 3A

60. REMOTE CONTROLLING EQUIP.:

A. Automatic Tuning Mechanisms **B. Remote Switching Mechanisms**

Applied Science Corp. of Princeton, P.O. Box 44, Princeton, N.J. B
See advertisement on page 128A

Chatham Electronics Corp., 475 Washington St., Newark 2, N.J. B
See advertisement on page 115A

Collins Radio Company, 855 35th St. N.E., Cedar Rapids, Iowa
See advertisement on page 22A, 23A

A. W. Haydon Co., 111 W. Main St., Waterbury 32, Conn. A
See advertisement on page 47A

Industrial Television, Inc., 359 Lexington Ave., Clifton, N.J. A, B
See advertisement on page 54A

Lavoie Laboratories, Matawan-Freehold Rd., Morganville, N.J. A
See advertisement on page 99A

Northern Radio Co., Inc., 143 W. 22nd St., New York 11, N.Y. B
See advertisement facing pages 114A, 115A

Sherron Electronics Co., Div. of Sherron Metallic Corp., 1201 Flushing Ave., Brooklyn 6, N.Y. A, C
See advertisement on page 5A

Sperry Gyroscope Company, Division of the Sperry Corporation, Great Neck, L.I., N.Y.
See advertisement on page 25A

61. RESISTORS:

A. Fixed **B. Precision** **C. Vacuum Sealed** **D. Variable** **E. Wire Wound**

Bendix Aviation Corp., Pacific Division, 11600 Sherman Way, North Hollywood, Calif.
See advertisement on page 14A

Centralab, Div. of Globe-Union, Inc., 900 E. Keefe Ave., Milwaukee 12, Wis. D, E
See advertisement on facing pages 16A, 17A

Clarostat Mfg. Co., Inc., 285-7 N. 6th St., Brooklyn 11, N.Y. A, B, D, E
See advertisement on page 89A

The Daven Company, 191 Central Ave., Newark 4, N.J. A, B, D, E.
See advertisement on page 27A

DeJur Amsco Corp., 45th St. at Northern Blvd., Long Island City, N.Y. B, E
See advertisement on page 29A

Electrical Reactance Corp., 34 Elm St., Franklinville, N.Y. A
See advertisement on page 17A

Erie Resistor Corp., 640 W. 12th St., Erie, Pa. A
See advertisement on page 37A

A. W. Franklin Mfg. Corp., 43-20 34th St., Long Island City 1, N.Y.
See advertisement facing pages 48, 49

General Radio Co., 275 Massachusetts Ave., Cambridge 39, Mass. A, B, D, E
See advertisement on page 41A

The Helipot Corp., 1011 Mission St., South Pasadena, Calif.
See advertisement on page 119A

Legri-S Company, 130 W. 102nd St., New York 25, N.Y. A, B, D, E
See advertisement on page 58A

Mepco, Inc., Troy Hills Rd., Whippany, N.J. A, B, C, E
See advertisement on page 128A

Ohmite Manufacturing Co., 4967 Flournoy St., Chicago 44, Ill. A, B, C, D, E
See advertisement on page 67A

Shallcross Mfg. Co., 520 Pusey Ave., Collingdale, Pa. A, B, E
See advertisement facing pages 80, 81

Sprague Electric Co., North Adams, Mass.
See advertisement on page 85A

Western Electric Co., 195 Broadway, New York 7, N.Y. A, B, C, E
See advertisement on page 2A, 3A

S. S. White Industrial Division, The S. S. White Dental Mfg. Co., 10 E. 40th St., New York 16, N.Y. A
See advertisement on page 94A

62. SOCKETS:

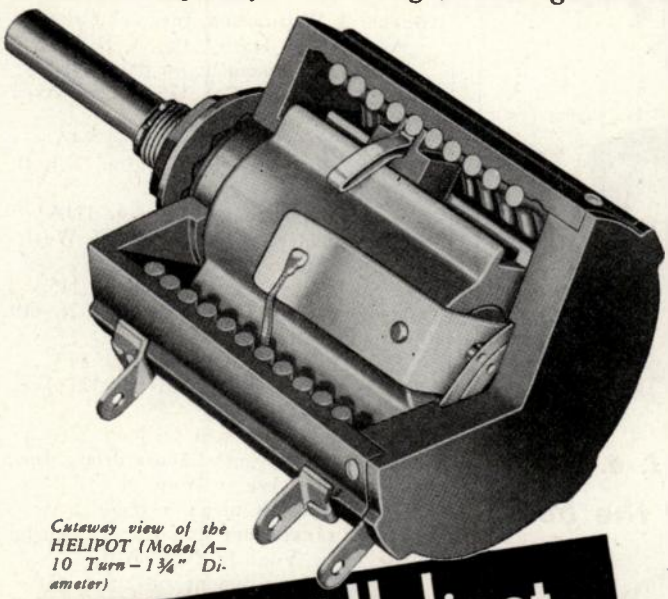
A. Receiving Types **B. Transmitting Types**

A. W. Franklin Mfg. Corp., 43-20 34th St., Long Island City 1, N.Y.
See advertisement facing pages 48, 49

Insuline Corp. of America, 36-02 35th Ave., Long Island City 1, N.Y. A, B
See advertisement on page 52A

(Continued on page 120A)

For new simplicity, wide range, and high accuracy in the control of modern electronic circuits...



Cutaway view of the HELIPOT (Model A–10 Turn – 1¾" Diameter)

THE BECKMAN Helipot

(Trademark of the HELical POTentiometer)

Provides *many times* greater resistance control in *same* panel space as conventional potentiometers!

IF YOU are designing or manufacturing *any type* of precision electronic equipment be sure to investigate the greater convenience, utility, range and compactness that can be incorporated into your equipment by using the revolutionary HELIPOT for rheostat-potentiometer control applications... and by using the new DUODIAL turns-indicating knob described at right.

Briefly, here is the HELIPOT principle... whereas a conventional potentiometer consists of a *single* coil of resistance winding, the HELIPOT has a resistance element *many times* longer coiled *helically* into a case which requires no more panel space than the conventional unit. A simple, foolproof guide controls the slider contact so that it follows the helical path of the resistance winding from end to end as a single knob is rotated. Result... *with no increase in panel space requirements*, the HELIPOT gives you as much as 12 times* the control surface. You get far greater accuracy, finer settings, increased range – with maximum compactness and operating simplicity!

COMPLETE RANGE OF TYPES AND SIZES

The HELIPOT is available in a complete range of types and sizes to meet a wide variety of control applications...

MODEL A: *5 watts, 10 turns, 46" slide wire length, 1¾" case dia., resistances 10 to 50,000 ohms, 3600° rotation.*

MODEL B: *10 watts, 15 turns, 140" slide wire length, 3¼" case dia., resistances 50 to 200,000 ohms, 5400° rotation.*

MODEL C: *3 watts, 3 turns, 13½" slide wire length, 1¾" case dia., resistances 5 to 15,000 ohms, 1080° rotation.*

MODEL D: *15 watts, 25 turns, 234" slide wire length, 3¼" case dia., resistances 100 to 300,000 ohms, 9000° rotation.*

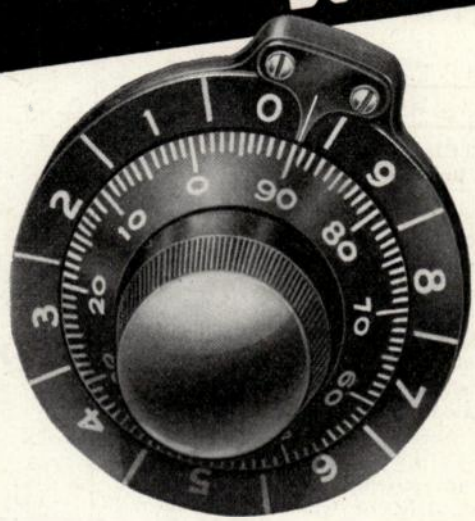
MODEL E: *20 watts, 40 turns, 373" slide wire length, 3¼" case dia., resistances 150 to 500,000 ohms, 14,400° rotation.*

Also, the HELIPOT is available in various special designs... with double shaft extensions, in multiple assemblies, integral dual units, etc.

Let us study *your* potentiometer problems and suggest how the HELIPOT can be used – possibly is already being used by others in your industry – to increase the accuracy, convenience and simplicity of modern electronic equipment. No obligation, of course. Write today outlining your problem.

**Data for Model A, 1¾" dia. Helipot. Other models give even greater control range in 3" case diameters.*

THE BECKMAN Duodial



The inner, or Primary dial of the DUODIAL *shows exact angular position of shaft during each revolution. The outer, or Secondary dial shows number of complete revolutions made by the Primary dial.*

A multi-turn rotational-indicating knob dial for use with the HELIPOT and other multiple turn devices.

THE DUODIAL is a unique advancement in knob dial design. It consists essentially of a primary knob dial geared to a concentric turns-indicating secondary dial – and the entire unit is so compact it requires only a 2" diameter panel space!

The DUODIAL is so designed that – as the primary dial rotates through each complete revolution – the secondary dial moves one division on its scale. Thus, the secondary dial counts the number of complete revolutions made by the primary dial. When used with the HELIPOT, the DUODIAL registers *both* the angular position of the slider contact on any given helix as well as the particular helix on which the slider is positioned.

Besides its use on the HELIPOT, the DUODIAL is readily adaptable to other helically wound devices as well as to many conventional gear-driven controls where extra dial length is desired without wasting panel space. It is compact, simple and rugged. It contains only two moving parts, both made entirely of metal. It cannot be damaged through jamming of the driven unit, or by forcing beyond any mechanical stop. It is not subject to error from backlash of internal gears.

TWO SIZES — MANY RATIOS

The DUODIAL is now available in a 2" diameter model and soon will also be available in a new 4¾" diameter model for main control applications. Standard turns-ratios include 10:1, 15:1, 25:1 and 40:1 (ratio between primary and secondary dials). Other ratios can be provided on special order. The 10:1 ratio DUODIAL can be readily employed with devices operating *fewer* than 10 revolutions and is recommended for the 3-turn HELIPOT. In all types, the primary dial and shaft operate with a 1:1 ratio, and all types mount directly on a ¼" round shaft.

Send for this HELIPOT AND DUODIAL CATALOG!

Contains complete data, construction details, etc., on the many sizes and types of HELIPOTS... and on the many unique features of the DUODIAL. Send for your free copy today!

THE Helipot CORPORATION, SOUTH PASADENA 6, CALIFORNIA

(Continued from page 118A)

Mycalex Corp. of America, 30 Rockefeller Pl., New York 20, N.Y. and Clifton, N.J. A, B
See advertisement on pages 42, 43

63. SOLDER:
A. Cored **B. Plain**

J. M. Ney Company, 171 Elm St., Hartford 1, Conn.
Gold Alloys
See advertisement on page 124A

Speakers, see Loudspeakers

64. SWITCHES:
A. Circuit Breaking
B. Key
C. Power
D. Receiver Wave Band Changing
E. Rotary
F. Time Delay
G. Transmitter Wave Band Changing

Applied Science Corp. of Princeton, P.O. Box 44, Princeton, N.J. E
See advertisement on page 128A

Barker & Williamson, Inc., 237 Fairfield Ave., Upper Darby, Pa. G
See advertisement on page 101A

Bendix Aviation Corp., Pacific Division, 11600 Sherman Way, North Hollywood, Calif.
See advertisement on page 14A

Centralab, Div. of Globe-Union, Inc., 900 E. Keefe Ave., Milwaukee 12, Wis. B, C, D, E, G
See advertisement facing pages 16, 17

Clarostat Mfg. Co., Inc., 285-7 N. 6th St., Brooklyn 11, N.Y. E
See advertisement on page 89A

The R. W. Cramer Co., Inc., Box No. 22, Centerbrook, Conn. F
See advertisement on page 112A

The Daven Company, 191 Central Ave., Newark 4, N.J. E
See advertisement on page 27A

A. W. Franklin Mfg. Corp., 43-20 34th St., Long Island City 1, N.Y.
See advertisement facing pages 48, 49

General Radio Co., 275 Massachusetts Ave., Cambridge 39, Mass. E
See advertisement on page 41A

A. W. Haydon Co., 111 W. Main St., Waterbury 32, Conn. F
See advertisement on page 47A

Insuline Corp. of America, 36-02 35th Ave., Long Island City 1, N.Y. A, C
See advertisement on page 52A

J. W. Miller Co., 5917 S. Main St., Los Angeles 3, Calif. D
See advertisement on page 62A

Ohmite Manufacturing Co., 4967 Flournoy St., Chicago 44, Ill. C, E, G
See advertisement on page 67A

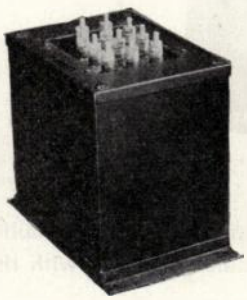
Shallcross Mfg. Co., 520 Pusey Ave., Collingdale, Pa. E, G
See advertisement facing pages 80, 81

Shure Brothers, Inc., 225 W. Huron St., Chicago 10, Ill.
See advertisement on page 83A

Western Electric Co., 195 Broadway, New York 7, N.Y.
See advertisement on page 2A, 3A

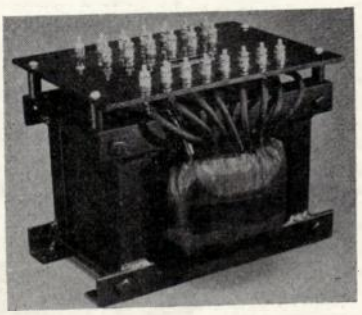
65. TESTING & MEASURING EQUIP.:
A. Bridges
B. Capacitor Testing
C. Inductance & "Q" Testing
D. Resistance Testing
E. Vacuum Tube Testing
F. Wave Form Analyzers & Distortion Testing

If you buy; i. e. you buy the best



Manufacturers of magnet wire, coils, transformers, rectifiers and electronic equipment.

Agents in the principal cities.



INDUCTIVE EQUIPMENT CORPORATION
"Quarry Park"
Gettysburg, Pa.

Ballantine Laboratories, Inc., Boonton, N.J. E
See advertisement on page 12A

Barker & Williamson, Inc., 237 Fairfield Ave., Upper Darby, Pa. A, B, F
See advertisement on page 101A

Beta Electronics Co., 1762 Third Ave., New York 29, N.Y. D
See advertisement on page 14A

Boonton Radio Corp., Boonton, N.J. B, C
See advertisement on page 111A

Chatham Electronics Corp., 475 Washington St., Newark 2, N.J. E
See advertisement on page 115A

Clarostat Mfg. Co., Inc., 285-7 N. 6th St., Brooklyn 11, N.Y. D
See advertisement on page 89A

The Daven Company, 191 Central Ave., Newark 4, N.J. D
See advertisement on page 27A

Allen B. DuMont Laboratories, Inc., 1000 Main Ave., Clifton, N.J. F
See advertisement on page 28A

Freed Transformer Co., Inc., 72 Spring St., New York 12, N.Y. A, C
See advertisement on page 48A

Furst Electronics, North Ave. and Halsted St., Chicago 22, Ill. F
See advertisement on page 38A

General Radio Co., 275 Massachusetts Ave., Cambridge 39, Mass. A, B, C, D, E, F
See advertisement on page 41A

Hewlett-Packard Co., 395 Page Mill Rd., Palo Alto, Calif. F
See advertisement on page 10A, 11A

Lavoie Laboratories, Matawan-Freehold Rd., Morganville, N.J. F
See advertisement on page 99A

Measurements Corporation, Boonton, N.J. A, B, C
See advertisement on page 63A

Mepco, Inc., Troy Hills Rd., Whippany, N.J.
See advertisement on page 128A

Panoramic Radio Corp., 92 Gold St., New York 7, N. Y. F
See advertisement on page 69A

Radio Corporation of America, 415 S. Fifth St., Harrison, N.J. F
See advertisement on page 31A

Hermon Hosmer Scott, Inc., 385 Putnam Ave., Cambridge 39, Mass. B, C, F
See advertisement on page 81A

Shallcross Mfg. Co., 520 Pusey Ave., Collingdale, Pa. A, D
See advertisement facing pages 80, 81

Sherron Electronics Co., Div. of Sherron Metallic Corp., 1201 Flushing Ave., Brooklyn 6, N.Y. B, C, D, E, F
See advertisement on page 5A

Sperry Gyroscope Company, Division of the Sperry Corporation, Great Neck, L.I., N.Y. A
See advertisement on page 25A

Sylvania Electric Products, Inc., 500 Fifth Ave., New York 18, N.Y. Emporium, Pa. E
See advertisement on page 51A

Triplett Electrical Instrument Co., Bluffton, Ohio. B, D, E
See advertisement on page 91A

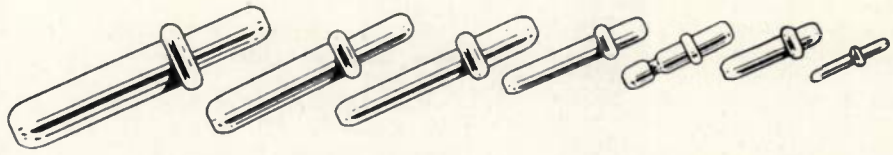
Western Electric Co., 195 Broadway, New York 7, N.Y. B, F
See advertisement on page 2A, 3A

(Continued on page 122A)

Are these the small metal parts you need?

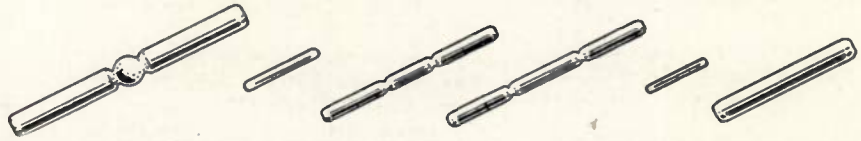
THESE ARE STANDARD MULTI-SWAGE PRODUCTS

CONTACT PINS

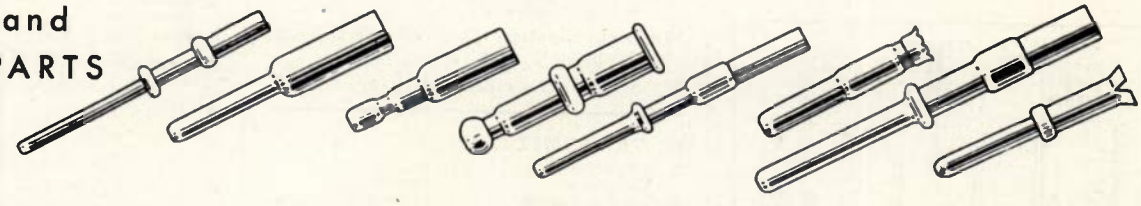


TERMINALS

WIRE LEADS



JACKS and MISC. PARTS



Most of the radio tube contacts used today are BEAD CHAIN MULTI-SWAGE PRODUCTS. The process by which they are made is adaptable to the manufacture of a large variety of similar small metal parts . . . both hollow type pins and solid wire leads. It is an accurate process, consistently maintaining very close tolerances at high speed and is best suited to volume requirements of 100,000 pieces and upwards. Greatest economy is obtained by planning while products are in the blueprint stage. Send specifications of your parts for suggestions and quotations.

BEAD CHAIN
multi·swage
PRODUCTS
TRADE MARK

Standard MULTI-SWAGE PRODUCTS are described in this twelve page catalog which contains complete mechanical specifications about Contact Pins, Terminals, Wire Leads and Jacks. Write for a copy.

THE BEAD CHAIN MANUFACTURING COMPANY
60 Mountain Grove Street, Bridgeport 5, Conn.

(Continued from page 120A)

W. M. Welch Scientific Co., 1515 Sedgwick St., Dpt K, Chicago 10, Ill. B, F
See advertisement on page 93A

66. TRANSFORMERS:

A. Audio Frequency
B. Hermetically Sealed Types
C. High Fidelity Audio Types
D. Power Components
E. Pulse Generating Types
F. Radio Frequency

Acme Electric Corp., 44 Water St., Cuba, N.Y. A, B, C, D, E, F
See advertisement on page 4A

American Television and Radio Co., 300 E. 4th St., St. Paul 1, Minn. D
See advertisement on page 40A

Andrew Corporation, 363 E. 75th St., Chicago 19, Ill. F
See advertisement on page 30A

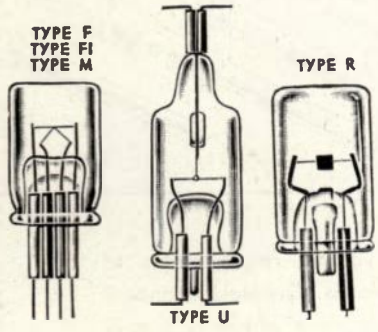
Barker & Williamson, Inc., 237 Fairfield Ave., Upper Darby, Pa. A, B, F
See advertisement on page 101A

Burnell & Company, 45 Warburton Ave., Yonkers 2, N.Y. A, C
See advertisement on page 19A

Chicago Transformer, Div. of Essex Wire Corp., 3501 Addison St., Chicago 18, Ill. A, B, C, D, F
See advertisement on page 21A

Allen B. DuMont Laboratories, Inc., 1000 Main Ave., Clifton, N.J. A, D, E, F
See advertisement on page 28A

Electro Engineering Works, 6021 College Ave., Oakland 11, Calif. A, B, C, D, E
See advertisement on page 32A



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VACUUM THERMOCOUPLES

- **TYPE F,** contact type, and **TYPE FI,** with insulated heater, available in ranges of 1.2 milliamperes and over.
- **TYPE M,** contact type, 25 MV output, constructed in ranges of 100 milliamperes and over.
- **TYPE U,** with insulated heater, for measurements at ultra-high frequencies, made in ranges of 3 milliamperes and over. Streamlined to make convenient use in coaxial cables or fittings possible.
- **TYPE R,** for radiant energy measurements.

Write Dept. VI for latest informative bulletins.

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109 EAST 184 ST.
NEW YORK 53, N.Y.

Federal Telephone & Radio Corp., 100 Kingsland Rd., Clifton, N.J. A, B, C, D, E, F
See advertisement on page 45A

Ferranti Electric, Inc., 30 Rockefeller Plaza, New York 20, N.Y. A, B, C, D, E
See advertisement on page 77A

Freed Transformer Co., Inc., 72 Spring St., New York 12, N.Y. A, B, C, D, E
See advertisement on page 48A

Inductive Equipment Co., Quarry Park, Gettysburg, Pa. A, B, C, D, E, F
See advertisement on page 120A

Kenyon Transformer Co., Inc., 840 Barry St., New York 59, N.Y. A, B, C, D. E
See advertisement on page 56A

Mepco, Inc., Troy Hills Rd., Whippany, N.J. B, F
See advertisement on page 128A

J. W. Miller Co., 5917 S. Main St., Los Angeles 3, Calif. F
See advertisement on page 62A

Hermon Hosmer Scott, Inc., 385 Putnam Ave., Cambridge 39, Mass. C
See advertisement on page 81A

Shure Brothers, Inc., 225 W. Huron St., Chicago 10, Ill.
See advertisement on page 83A

Sperry Gyroscope Company, Division of the Sperry Corporation, Great Neck, L.I., N.Y. F
See advertisement on page 25A

The Superior Electric Co., 83 Laurel St., Bristol, Conn. D
See advertisement on page 107A

United Transformer Corp., 150 Varick St., New York 13, N.Y. A, B, C, D, E
See advertisement on page 13A

Western Electric Co., 195 Broadway, New York 7, N.Y. A, C, F
See advertisement on page 2A, 3A

67. TRANSMITTERS:

A. Amplitude Modulation
B. Communication
C. Freq. Modulation
D. Police & Emergency
E. Television
F. Ultra-High Freq.

Barker & Williamson, Inc., 237 Fairfield Ave., Upper Darby, Pa. A, B
See Advertisement on page 101A

Bendix Aviation Corp., Pacific Division, 11600 Sherman Way, North Hollywood, Calif.
See advertisement on page 14A

Collins Radio Company, 855 35th St. N.E., Cedar Rapids, Iowa. A, B, C
See advertisement on page 22A, 23A

Allen B. DuMont Laboratories, Inc., 42 Harding Ave., Clifton, N.J. E, F
See advertisement on page 28A

Federal Telephone & Radio Corp., 100 Kingsland Rd., Clifton, N.J. A, B, C, D, E, F
See advertisement on page 45A

Lavoie Laboratories, Matawan-Freehold Rd., Morganville, N.J. B, F
See advertisement on page 99A

Northern Radio Co., Inc., 143 W. 22nd St., New York 11, N.Y. A, B, F
See advertisement facing pages 114A, 115A

Radio Receptor Co., Inc., 251 W. 19th St., New York 11, N.Y. B, C, F
See advertisement on page 76A

Sherron Electronics Co., Div. of Sherron Metallic Corp., 1201 Flushing Ave., Brooklyn 6, N.Y. A, B, C, D, E, F
See advertisement on page 5A

Sperry Gyroscope Company, Division of the Sperry Corporation, Great Neck, L.I., N.Y. B, C, F
See advertisement on page 25A

Waterman Products Co., 2445 Emerald St., Philadelphia 25, Pa.
See advertisement on page 114A

Western Electric Co., 195 Broadway, New York 7, N.Y. A, B, C, D, F
See advertisement on page 2A, 3A

W. M. Welch Scientific Co., 1515 Sedgwick St., Dpt K, Chicago 10, Ill. B
See advertisement on page 93A

68. ULTRA-HIGH FREQUENCY EQUIPMENT & ACCESSORIES:

A. Antennas & Reflectors
B. Measuring & Testing Equipment
C. Tuning Elements
D. Wave Guides

Aircraft Radio Corp., Boonton, N.J.
See advertisement on page 98A

Airtron, Inc., 653 Bloomingdale Rd., Staten Island 9, N.Y. D
See advertisement on page 100A

Andrew Corporation, 363 E. 75th St., New York 19, N.Y. A
See advertisement on page 30A

Boonton Radio Corp., Boonton, N.J.
See advertisement on page 111A

The Daven Company, 191 Central Ave., Newark 4, N.J. B
See advertisement on page 27A

Federal Telephone & Radio Corp., 100 Kingsland Rd., Clifton, N.J. A, B
See advertisement on page 45A

(Continued on page 124A)

COHAN-EPNER CO., INC.
ELECTROPLATING SPECIALISTS

40 years of experience and background . . .
Your guarantee of satisfaction

Equipped to maintain all required GOVERNMENT SPECIFICATIONS

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MACHLETT ELECTRON TUBES

RADIO TRANSMITTING • INDUSTRIAL • SPECIAL PURPOSE

TRANSMITTING TUBES

Type	Electrodes	Cathode Volts	Cathode Amps.	Max. Anode Rating Volts	Max. Anode Rating Ma.	Max. Anode Rating Input Watts	Max. Anode Rating Diss. Watts	Full Input Freq. Mcs.	Mu	Cooling	List Price
ML-207	3	22.0	52.0	15000	2000	30000	10000	1.6	20	Water	$220.00
ML-846	3	11.0	51.0	7500	1000	7500	2500	50	40	Water	250.00
ML-880	3	12.6	320.0	10500	6000	60000	20000	25	20	Water	440.00
ML-889A	3	11.0	125.0	8500	2000	16000	5000	50	21	Water	190.00
ML-889RA	3	11.0	125.0	8500	2000	16000	5000	40	21	Forced-Air	250.00
ML-891	3	*22.0	60.0	12000	2000	18000	6000	1.6	8	Water	200.00
ML-891R	3	*22.0	60.0	10000	2000	15000	4000	1.6	8	Forced-Air	345.00
ML-892	3	*22.0	60.0	15000	2000	30000	10000	1.6	50	Water	200.00
ML-892R	3	*22.0	60.0	12500	2000	18000	4000	1.6	50	Forced Air	345.00
ML-893A	3	†10.0	61.0	20000	4000	70000	20000	5	36	Water	570.00
ML-893RA	3	†10.0	61.0	20000	4000	70000	20000	5	36	Forced-Air	1050.00
2C-39	3	6.3	1.1	1000	100	100	100	500	85	Forced-Air and Convection	43.40

*Two filament strands in series with large post at neutral junction; operate in series or two-phase.
†Single, three or six-phase filament; voltage is per strand, current is per terminal.

ELECTRONIC HEATING TUBES

Type	Cathode Volts	Cathode Amps.	Max. Anode Rating KV	Max. Anode Rating Amps.	Max. Anode Rating Input KW	Max. Anode Rating Diss. KW	Full Input Freq. Mcs.	Mu	Cooling	List Price
ML-5604	11	176	12.5	3.0	32.5	10	22.5	19.5	Forced-Air	$500.00
ML-5619	11	176	12.5	3.0	32.5	20	22.5	19.5	Water	360.00
ML-5658	12	290	12.5	5.0	60	20	15.0	20.5	Water	455.00
ML-5666	11	120	10	2.0	20	12.5	22.5	21.0	Water	215.00
ML-5667	11	120	10	2.0	20	7.5	22.5	21.0	Forced-Air	280.00
ML-5668	22	60	14	2.0	28	20	5.0	50	Water	235.00
ML-5669	22	60	14	2.0	28	10	5.0	50	Forced-Air	350.00

HYDROGEN THYRATRON

Type	Cathode Fila. Volts	Cathode Amps.	Max. Anode Rating Max. Pk. Inv. KV	Max. Anode Rating Peak Amps.	Max. Anode Rating RMS Amps.	Max. Anode Rating Aver. MA	Voltage to Fire Grid	Cooling	List Price
5C22	6.3	10.6	16	325	8	200	175	Radiation	$100

HIGH VOLTAGE RECTIFIERS

Type	Cathode Fila. Volts	Cathode Amps.	Anode Rating Max. Pk. Inv. KV	Anode Rating Peak Amps.	Type of Insulation	Type of Cooling	List Price
ML-215	10.0	11.5	125	.080	Air	Convection	$ 88.00
ML-203	10.0	11.5	125	.080	Oil	Convection	83.00
ML-210	10.0	11.5	140	.080	Air	Convection	131.00
ML-201	10.0	11.5	140	.080	Oil	Convection	83.00
ML-220	13.0	12.4	140	.160	Air	Convection	131.00
ML-206	10.0	17.8	140	.160	Oil	Convection	131.00
ML-208	13.0	12.4	140	.160	Oil	Convection	131.00
ML-226	13.0	12.4	150	.160	Air	Convection	149.00
ML-5575/100	20.0	24.0	150	1.0	Air	Convection	210.00
ML-5576/200	20.0	32.0	150	2.5	Air	Convection	235.00
ML-270	13.0	12.4	200	.080	Air	Convection	248.00
ML-280	13.0	12.4	200	.080	Oil	Convection	248.00

NOTE: Prices and other data subject to change without notice.

ML-892

ML-5604

5C22

ML-280

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Bruce Cumming & Associates
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Fred J. Stevens
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15324 Mack Avenue
Detroit 24, Michigan

Charles W. Pointon
Manning Chambers
Queen at Bay Street
Toronto, Canada

Norman B. Neely Enterprises
7422 Melrose Avenue
Hollywood 46, California

Far East Representative
Universal Factors, Inc.
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San Francisco 4, California

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Rockefeller Center
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Springdale, Connecticut

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102 YEARS

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FOUNDED 1846
117 26th ST., BROOKLYN, N.Y.

(Continued from page 122A)

Field Electrical Instrument Co., 109 E. 184th St., New York 53, N.Y. B
See advertisement on page 122A

General Radio Co., 275 Massachusetts Ave., Cambridge 39, Mass. B
See advertisement on page 41A

Hewlett-Packard Co., 395 Page Mill Rd., Palo Alto, Calif. B
See advertisement on page 10A, 11A

Industrial Products Co., P.O. Box 148, Danbury, Conn. A, B, C, D
See advertisement on page 53A

Insuline Corp. of America, 36-02 35th Ave., Long Island City 1, N.Y. A
See advertisement on page 52A

Kay Electric Co., Maple Ave., Pine Brook, N.J. B
See advertisement on page 55A

Lavoie Laboratories, Matawan-Freehold Rd., Morganville, N.J. A, B
See advertisement on page 99A

Measurements Corporation, Boonton, N.J. B
See advertisement on page 63A

Panoramic Radio Corp., 92 Gold St., New York 7, N.Y. B
See advertisement on page 69A

Premax Products, Div. Chisholm-Ryder Co., Inc., 4811 Highland Ave., Niagara Falls, N.Y., A
See advertisement on page 72A

Radio Receptor Co., Inc., 251 W. 19th St., New York 11, N.Y.
See advertisement on page 76A

Sherron Electronics Co., Div. of Sherron Metallic Corp., 1201 Flushing Ave., Brooklyn 6, N.Y. A, B, C, D
See advertisement on page 5A

Sperry Gyroscope Company, Division of the Sperry Corporation, Great Neck, L.I., N.Y. A, B, C, D
See advertisement on page 25A

Western Electric Co., 195 Broadway, New York 7, N.Y. A, B
See advertisement on page 2A, 3A

Mycalex Corp. of America, 30 Rockefeller Pl., New York 20, N.Y. & Clifton, N.J. C
See advertisement on page 42, 43

69. Vacuum Tubes:

A. Cathode Ray
B. Geiger Mueller
C. Industrial Types
D. Klystrons & Magnetrons
E. Receiving Types
F. Rectifiers
G. Special Purpose & Phototubes
H. Television Tubes
I. Transmitting Types
J. Voltage Regulator
K. Tube Components

Applied Science Corp. of Princeton, P.O. Box 44, Princeton, N.J. B
See advertisement on page 128A

Ballantine Laboratories, Inc., Boonton, N.J.
See advertisement on page 12A

Bead Chain Mfg. Company, 60 Mt. Grove St., Bridgeport 5, Conn. B
See advertisement on page 121A

Chatham Electronics Corp., 475 Washington St., Newark 2, N.J. C, E, F, G, I, J
See advertisement on page 115A

Allen B. DuMont Laboratories, Inc., Passaic, N.J. A, C, G
See advertisement on page 28A

Federal Telephone & Radio Corp., 100 Kingsland Rd., Clifton, N.J. C, F, G, H, I
See advertisement on page 45A

Jennings Radio Mfg. Co., 1098 E. William St., San Jose 12, Calif. C, I
See Advertisement on page 103A

Linde Air Products Co., Unit of Union Carbide & Carbon Corp., 30 E. 42nd St., New York 17, N.Y. Rare Gases
See advertisement on page 61A

Machlett Laboratories, Inc., 1063 Hope St., Springdale, Conn. C, D, F, I
See advertisement on page 123A

National Carbon Company, Inc., Unit of Union Carbide and Carbon Corporation, 30 E. 42nd St., New York 17, N.Y. K Graphite Tube Anodes
See advertisement on page 64A

Radio Corporation of America, 415 S. Fifth St., Harrison, N.J. A, C, E, F, G, H, I, J
See advertisement on page 31A

Sperry Gyroscope Company, Division of the Sperry Corporation, Great Neck, L.I., N.Y.
See advertisement on page 25A

Sylvania Electric Products, Inc., 500 Fifth Ave., New York 18, N.Y. Emporium, Pa. A, B, C, D, E, F, G, H, J
See advertisement on page 51A

Western Electric Co., 195 Broadway, New York 7, N.Y. C, D, E, F, G, I, J
See advertisement on page 2A, 3A

Varnishes, see Lacquers

70. VIBRATORS, POWER SUPPLY

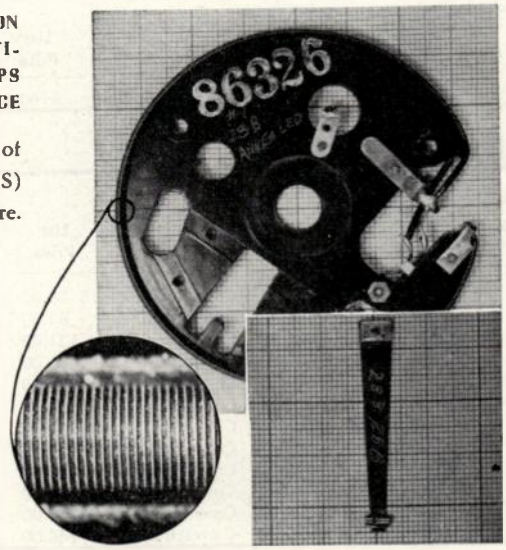
American Television and Radio Co., 300 E. 4th St., St. Paul 1, Minn.
See advertisement on page 40A

(Continued on page 126A)

NEY PRECIOUS METALS IN INDUSTRY

NEY-ORO #28B BRUSH CONTACT ON ADVANCE WIRE WOUND POTENTIOMETER RUNS 4,300,000 SWEEPS WITH NO CHANGE IN RESISTANCE

Examine these unretouched photographs of mandrel (wound with Advance #36 B&S) and brush adjusted for 50 gms pressure. There is no appreciable wear on the winding after 4,300,000 sweeps of the brush and the wear on the brush is less than .008". Throughout the test there was no perceptible change in resistance. Truly a remarkable performance when you consider the additional fact that the test was conducted at a speed of 37.5 cycles (75 sweeps) per minute, considerably faster than normal operation. The test was conducted by a leading manufacturer of precision equipment and the complete test data is available on request. It is, we believe, further convincing evidence of the interesting possibilities offered by the use of Ney Precious Metal Alloys in industrial and scientific applications.



Mandrel and brush shown 40% full size. Section of mandrel 6⅔ x magnification.

Write or phone (Hartford 2-4271) our Research Department.

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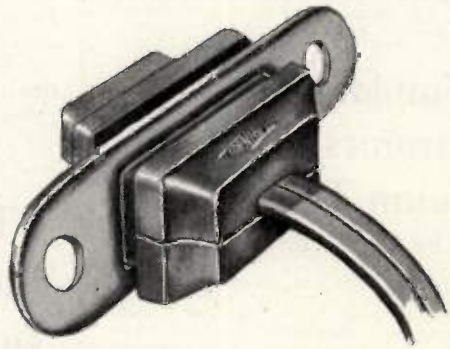
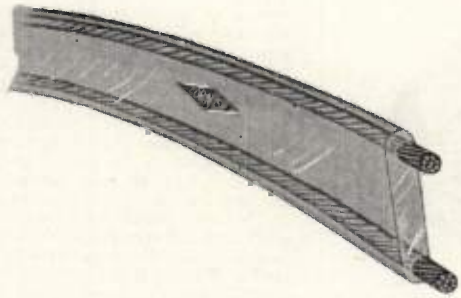
Television SAFETY PLUG

Safety plug, attached to an approved cord set, designed to prevent injuries from high voltage circuits.





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A low loss twin conductor downlead for FM and Television—insulated with weather-resistant polyethylene for greater signal strength and longer life.

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Approved by Underwriters' Laboratories at 90 degrees Centigrade . . . 600 volts! Flame resistant . . . Heat resistant . . . High Insulation Resistance . . . High Dielectric . . . Easily stripped . . . Facilitates Positive Soldering.

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This is the first of a new series of books on radio techniques developed largely during the war and heretofore not fully divulged. The authors are all men who were personally responsible for important advances in the various aspects of radio on which they write. In this book the Principal Scientific Officer in the British Ministry of Aircraft Production explains the theory, practical construction and operation of wave guides in high-frequency equipment. Both the British and American experience is described. Full explanation of the mathematics and formulas involved is included.

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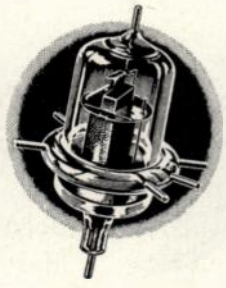

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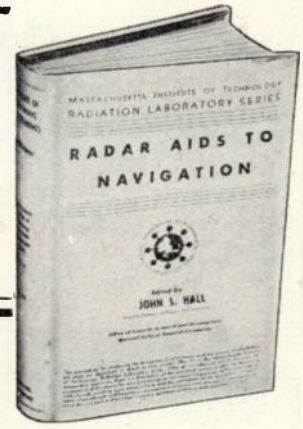

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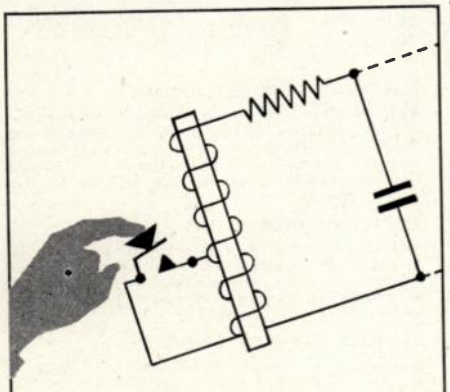

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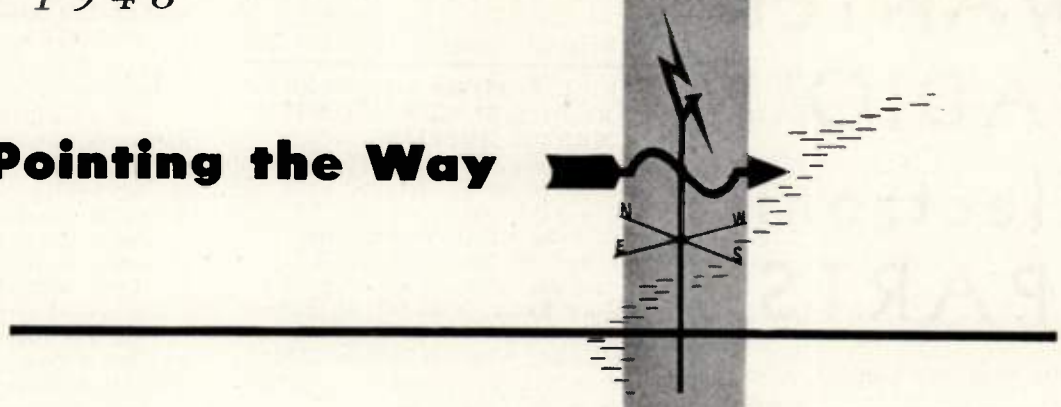

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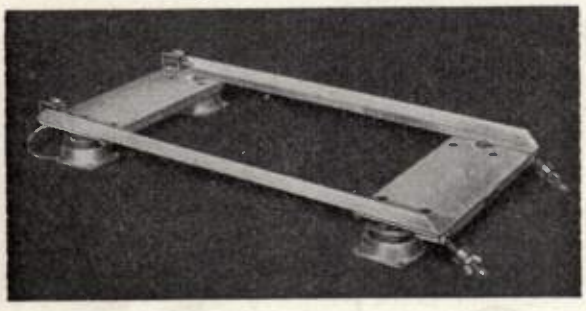

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Cambridge Thermionic Corporation, 440 Concord Ave., Cambridge 38, Mass. 105A
Cannon Electric Development Co., 3209 Humboldt St., Los Angeles 31, Calif. 116A
Carter Motor Co., 2645 N. Maplewood Ave., Chicago 47, Ill. 18A
Centralab, Div. of Globe-Union, Inc., 900 E. Keefe Ave., Milwaukee 12, Wis. Facing 16A & 17A
Chatham Electronics Corp., 475 Washington St., Newark 2, N.J. 115A
Chicago Transformer, Div. of Essex Wire Corp., 3501 Addison St., Chicago 18, Ill. 21A
Clark Crystal Company, 2 Farm Rd., Marlboro, Mass. 20A
Clark-Reiss Distributors, Inc., 55 Walker St., New York 13, N.Y. 130A
Clarostat Mfg. Co., Inc., 285-7 N. 6th St., Brooklyn 11, N.Y. 89A
Cohan-Epner Co., Inc., 142 W. 14th St., New York 11, N.Y. 122A
Sigmund Cohn Corp., 44 Gold St., New York 7, N.Y. 20A
Collins Radio Company, 855 35th St. N.E., Cedar Rapids, Iowa ..... 22A & 23A
Concord Radio Corporation, 901 W. Jackson Blvd., Chicago 7, Ill. 24A
C. G. Conn, Ltd., Electronics Division, 1101 E. Beardsley Ave., Elkhart, Ind. 117A
Cornish Wire Co., Inc., 15 Park Row, New York 7, N.Y. 125A
The R. W. Cramer Co., Inc., Box No. 22, Centerbrook, Conn. 112A

D

The Daven Company, 191 Central Ave., Newark 4, N.J. 27A
DeJur Amsco Corp., 45th St. and Northern Blvd., Long Island City, N.Y. 29A
The Dial Light Co. of America, 900 Broadway, New York 3, N.Y. 75A
Drake Manufacturing Co., 1713 W. Hubbard St., Chicago 22, Ill. 26A
Allen B. DuMont Laboratories, Inc., 1000 Main Ave., Clifton, N.J. 28A

E

Electric Soldering Iron Co., Inc., 3748 W. Elm St., Deep River, Conn. 73A
Electrical Reactance Corp., 34 Elm St., Franklinville, N.Y. 17A
Electro Engineering Works, 6021 College Ave., Oakland 11, Calif. 32A
The Electro Motive Mfg. Co., Inc., South Park & John Sts., Willimantic, Conn. 33A
Electro-Seal Corporation, 946 Lee St., Des Plaines, Ill. 34A
Electro-Tech Equipment Co., 117 Lafayette St., New York 13, N.Y. 35A
Erie Resistor Corp., 640 W. 12th St., Erie, Pa. 37A

F

Federal Telephone & Radio Corp., 100 Kingsland Rd., Clifton, N.J. ..... 44A & 45A
Ferranti Electric, Inc., 30 Rockefeller Plaza, New York 20, N.Y. 77A
Field Electrical Instrument Co., 109 E. 184th St., New York 53, N.Y. 122A
Frankel & Nelson, 7716 Firenze Ave., Los Angeles 46, Calif. 128A
A. W. Franklin Mfg. Corp., 43-20 34th St., Long Island City 1, N.Y. ..... Facing 48A & 49A
Freed Transformer Co., Inc., 72 Spring St., New York 12, N.Y. 48A
Furst Electronics, North Ave. and Halsted St., Chicago 22, Ill. 38A

G

General Aniline & Film Corp., 444 Madison Ave., New York 22, N.Y. 39A
General Radio Company, 275 Massachusetts Ave., Cambridge 39, Mass. 41A
Paul Godley Company, 10 Marion Rd., Upper Montclair, N.J. 129A

H

Alexander Hamilton Institute, Inc., 71 W. 23rd St., Dept. 630, New York 10, N.Y. 96A
Harvey Radio Co., 103 W. 43rd St., New York 18, N.Y. 131A
Hawley Products Co., 333-339 N. 6th St., St. Charles, Ill. 108A
A. W. Haydon Co., 111 W. Main St., Waterbury 32, Conn. 47A
The Helipot Corporation, 1011 Mission St., South Pasadena, Calif. 119A
Hewlett-Packard Company, 395 Page Mill Rd., Palo Alto, Calif. ..... 10A & 11A
Hughey & Phillips, 326 N. La Cienega Blvd., Los Angeles 36, Calif. 50A
The Hunt Corporation, Lincoln St., Carlisle, Pa. 104A

I

Illinois Condenser Co., 1616 N. Throop St., Chicago 22, Ill. 102A
Indiana Steel Products Co., 6 N. Michigan Ave., Chicago 2, Ill. 118A
Inductive Equipment Corp., Quarry Park, Gettysburg, Pa. 120A
Industrial Products Co., P.O. Box 148, Danbury, Conn. 53A
Industrial Television, Inc., 359 Lexington Ave., Clifton, N.J. 54A
Insulation Manufacturers Corp., 565 W. Washington Blvd., Chicago 6, Ill. 109A
Insuline Corp. of America, 36-02 35th Ave., Long Island City 1, N.Y. 52A

J

Jennings Radio Mfg. Co., 1098 E. William St., San Jose 12, Calif. 103A

K

Kay Electric Company, Maple Ave., Pine Brook, N.J. 55A
Kenyon Transformer Co., Inc., 840 Barry St., New York 59, N.Y. 56A
Kollsman Instrument Division, Square D Company, 80-08 45th Ave., Elmhurst, L.I., N.Y. .. 57A

L

Lavoie Laboratories, Matawan-Freehold Rd., Morganville, N.J. 99A
Legri-S Company, Inc., 846-850 Amsterdam Ave., New York 25, N.Y. 58A
Lehigh Structural Steel Co., 17 Battery Pl., New York 4, N.Y. 58A
Lenz Electric Manufacturing Co., 1751 N. Western Ave., Chicago 47, Ill. 59A
Linde Air Products Co., 30 E. 42nd St., New York 17, N.Y. 61A

M

McGraw-Hill Book Co., Inc., 330 W. 42nd St., New York 18, N.Y. 127A
Machlett Laboratories, Inc., 1063 Hope St., Springdale, Conn. 123A
The Macmillan Company, 60 Fifth Ave., New York 11, N.Y. 126A
Magnetic Core Corp., 142 S. Highland Ave., Ossining, N.Y. 60A
George J. Maki, Moraga, Calif. 128A
Marion Electrical Instrument Company, Manchester, New Hampshire 113A
Measurements Corporation, Boonton, N.J. ... 63A
Mepco, Inc., Troy Hills Rd., Whippany, N.J. .128A
J. W. Miller Company, 5917 S. Main St., Los Angeles 3, Calif. 62A
Mueller Electric Co., 1603 E. 31st St., Cleveland 14, Ohio 98A
Mycalex Corp. of America, Clifton, N.J. and 30 Rockefeller Plaza, New York 20, N.Y. ..... 42A & 43A

N

National Carbon Company, Inc., Unit of Union Carbide and Carbon Corporation, 30 E. 42nd St., New York 17, N.Y. 64A
Newark Electric Co., Inc., 242 W. 55th St., New York 19, N.Y. 66A
J. M. Ney Company, 171 Elm St., Hartford 1, Conn. 124A
Northern Radio Co., Incorporated, 143 W. 22nd St., New York 11, N.Y. ..Facing 112A & 113A

O

J. P. O'Donnell & Sons, Inc., 316 Stuart St., Boston 16, Mass. 102A
Ohmite Manufacturing Co., 4967 Flournoy St., Chicago 44, Ill. 67A

P

Panoramic Radio Corp., 92 Gold St., New York 7, N.Y. 69A
Par-Metal Products Corporation, 32-62 49th St., Long Island City 3, N.Y. 68A
Precision Paper Tube Co., 2062 W. Charleston St., Chicago 47, Ill. 76A
Premax Products Div. Chisholm-Ryder Co., Inc., 4811 Highland Ave., Niagara Falls, N.Y. 72A
Presto Recording Corporation, Paramus, N.J. ..... 70A & 71A

R

RCA Review, Radio Corp. of America, RCA Labs. Division, Princeton, N.J. 74A
Radio Corporation of America, 415 S. 5th St., Harrison, N.J. 31A
Radio Receptor Co., Inc., 251 W. 19th St., New York 11, N.Y. 76A
Reeves-Hoffman Corporation, Cherry & North Sts., Carlisle, Pa. 78A

S

Howard W. Sams & Co., Inc., Indianapolis 7, Ind. 126A
Hermon Hosmer Scott, Inc., 385 Putnam Ave., Cambridge 39, Mass. 81A
Shallcross Mfg. Co., 520 Pusey Ave., Collingdale, Pa. ..... Facing 80A & 81A
Sherron Electronics Co., Div. of Sherron Metallic Corp., 1201 Flushing Ave., Brooklyn 6, N.Y. 5A
Shure Brothers, Inc., 225 W. Huron St., Chicago 10, Ill. 83A
Sperry Gyroscope Company, Division of the Sperry Corporation, Great Neck, L.I., N.Y. . 25A
Sprague Electric Company, N. Adams, Mass. 85A
Standard Piezo Co., 127 Cedar St., Carlisle, Pa. 84A
Stephens Mfg. Corp., 10416 National Blvd., Los Angeles 34, Calif. 86A
The Superior Electric Co., 83 Laurel St., Bristol, Conn. 107A
Sylvania Electric Products, Inc., Emporium, Pa. 51A

T

TAB, 6 Church St., New York 6, N.Y. 87A
Times Facsimile Corp., 229 W. 43rd St., New York 18, N.Y. 90A
Triplett Electrical Instrument Co., Bluffton, Ohio 91A
The Turner Company, 909 17th St. N.E., Cedar Rapids, Iowa 49A

U

United Transformer Corp., 150 Varick St., New York 13, N.Y. 13A

V

V-M Corporation, Benton Harbor, Mich. 92A
Valpey Crystal Corp., 1244 Highland St., Holliston, Mass. 92A
The Vitroseal Corporation, 918 Oak St., Wyoming, Cincinnati 15, Ohio 92A

W

Waterman Products Co., 2445 Emerald St., Philadelphia 25, Pa. 114A
W. M. Welch Scientific Company, 1515 Sedgwick St., Dept. K, Chicago 10, Ill. 93A
Western Electric Company, 195 Broadway, New York 7, N.Y. ..... 2A & 3A
S. S. White Industrial Division, The S. S. White Dental Mfg. Co., 10 E. 40th St., New York 16, N.Y. 94A
John Wiley & Sons, Inc., 440 Fourth Ave., New York 16, N.Y. 95A
C. K. Williams & Co., 2001 Lynch Ave., East St. Louis, Ill. 93A

Z

Zophar Mills, Inc., 112 26th St., Brooklyn 32, N.Y. 124A