

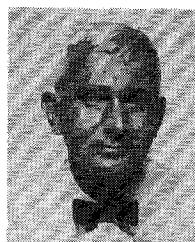
## Contributors



**John P. Agrios** (M'63) was born in Summit, N. J., on January 9, 1930. He received the B.E.E. and M.E.E. degrees from New York University, New York, in 1952 and 1968, respectively.

In 1954 he joined the U. S. Army Electronics Command, Fort Monmouth, N. J., and until 1962 he was engaged in research and development activities of RF and pulse cables. Since 1962 he has been concerned with research and development activities in microwave filters and ferrite devices. He is presently the Chief of the Microwave Devices Section of the Electronic Components Laboratory.

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**Daniel C. Buck** (A'51–M'56) was born in Orange, N. J., on September 22, 1928. He received the B.A. degree in physics from Oberlin College, Oberlin, Ohio, in 1950, the M.S. degree in electrical engineering from Newark College of Engineering, Newark, N. J., in 1952, and the M.S. degree in physics from New York University, N. Y. in 1954.

From 1952 to 1955 he was employed by Sylvania Electric Products, Inc., Bayside, N. Y., where he was engaged in research in ZnS crystallography, emission spectroscopy, and traveling wave tube beam focusing. From 1955 to 1966 he was employed by Westinghouse Electric Corporation Tube Division, Elmira, N. Y., where he conducted research on traveling wave and other microwave tubes. Since 1966 he has been associated with Westinghouse Aerospace Division as a Fellow Engineer conducting research on microwave magnetic devices.

Mr. Buck is a member of the American Physical Society and Research Society of America.

Polytechnic Institute of Brooklyn, Brooklyn, N. Y., in 1958, the M.S. degree from the California Institute of Technology, Pasadena, in 1959, and the Ph.D. degree from the University of California, Los Angeles, in 1965.

From 1958 to 1965

he was with the Antenna Department of the Hughes Aircraft Company. His primary interests there were in microwave antenna pattern optimization, random error effects, and the electromagnetic properties of plasmas. In 1965 to 1966 he was a Fulbright Fellow at the University of Paris, Paris, France, interested in propagation in linear accelerators. Since 1966 he has been an Assistant Professor in the Department of Electrical Engineering, University of Washington, Seattle. His principal interests are in the propagation, microwave optics, and biomedical engineering areas.

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**Marcel J. Beaubien** was born in Manitoba, Canada, on March 13, 1941. He received the B.Sc. and M.Sc. degrees in electrical engineering from the University of Manitoba, Winnipeg, in 1964 and 1966, respectively, and at present is working toward the Ph.D. degree there.

In 1964 he was employed by Manitoba Hydro on terminal station design. He was engaged in electromagnetic compatibility studies with Lockheed-Georgia in 1966. Since 1967 he has been with the Numerical Applications Group at the University of Manitoba.

Mr. Beaubien is a member of the Association of Professional Engineers of the Province of Manitoba.

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**Tore T. Fjällbrant** (M'62) was born in Stockholm, Sweden, on November 24, 1931. He received the Civilingenjors (M.Sc.) degree in electrical engineering, the Teknologie Licentiat (Ph.D.) degree, and the Teknologie Doktors degree from the Chalmers University of Technology, Gothenburg, Sweden, in 1954, 1964, and 1967, respectively.

In 1955 he joined the Telefonaktiebolaget L. M. Ericsson, Stockholm, where he was engaged in microwave receiver design until 1957. He received a Research Fellowship at the University of Glasgow, Glasgow, Scotland, for the year 1957–1958, and there he worked on the 80 MeV electron synchrotron. Since 1958 he has been with the Mölndal Division of the Ericsson Company. From 1959 to 1964 he was responsible for a group working on radar system design. He is at present Technical Adviser for the Mölndal Division. In addition, since 1967 he has been Docent in Circuit Theory at the Chalmers University of Technology.

**David A. Leedom** (S'67) was born in Turlock, Calif., April 4, 1945. In 1967 he received the B.S. degree in electrical engineering from the University of California, Santa Barbara.

At present he is pursuing graduate studies at the same University, where he is a Research Assistant. Since June, 1967, he has been engaged in research on quasi-optical filter techniques.

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**Ralph Levy** (SM'64), for a photograph and biography, please see page 204 of the March, 1968, issue of this TRANSACTIONS.

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**Thomas G. Bryant** (S'68) was born in Rockport, Me., on September 2, 1940. He received the B.S.E.E. and M.S.E.E. degrees from the University of Maine, Orono, in 1966 and 1968, respectively. In 1968, he joined the staff of M.I.T. Lincoln

Laboratory, Array Radars Group, Lexington, Mass.

Mr. Bryant is a member of Tau Beta Pi, Eta Kappa Nu, and Phi Kappa Phi.

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**Jay H. Harris** (S'57–M'66) was born in Newark, N. J., on June 3, 1936. He received the B.E.E. degree, summa cum laude, from the



**George L. Matthaei** (S'49 – A'52 – M'57 – F'65) was born in Tacoma, Wash., on August 28, 1923. After leaving college for three years of military service, he returned to the University of Washington, Seattle, and received the B.S. degree in electrical engineering in 1948. He received the Ph.D. degree in electrical engi-

neering in 1952, from Stanford University, Stanford, Calif.

While at Stanford he was a Research Assistant in the Electronics Research Laboratory where he did research on network synthesis. In 1951 he joined the faculty of the Division of Electrical Engineering of the University of California at Berkeley, where he became an Assistant Professor. He continued research on network synthesis and supervised graduate student research in that field. From 1955 to 1958 he was on the Technical Staff of the Ramo-Wooldridge Corp., Inglewood, Calif., engaged in system analysis and research on microwave components. From 1958 to 1964 he was at the Stanford Research Institute where he did research on microwave devices. He became Manager of the Electromagnetic Techniques Laboratory of SRI in 1962. In July, 1964, he joined the Department of Electrical Engineering, University of California, Santa Barbara, where he is a Professor. He is the author or coauthor of numerous papers and coauthor or contributor to four books.

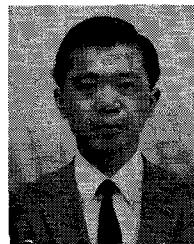
Dr. Matthaei is a member of Sigma Xi and Tau Beta Pi. He was the winner of the 1961 Microwave Prize of the IRE Professional Group on Microwave Theory and Techniques.



**Richard A. Stern** (M'62) was born in Allentown, Pa., on December 10, 1938. He received the B.S. degree in physics from Muhlenberg College, Allentown, in 1960.

Since 1960 he has been employed as a Project Engineer by the U. S. Army Electronics Command, Fort Monmouth, N. J. where he has been engaged in research and development activities concerned with microwave ferrite devices.

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**Shigetoki Sugimoto** was born in Osaka, Japan, on January 18, 1936. He received the B.S. degree in engineering from the University of Tokyo, Japan, in 1960. In 1964 he was awarded a Fulbright Travel Grant and a David Sarnoff RCA Scholarship, and studied statistical communication theory at the University of California at Berkeley, where he received the M.S. degree in engineering in 1966.

After graduating from the University of Tokyo, he joined the Research Laboratory of the Nippon Electric Company, Ltd., Kawasaki, where he worked in the area of millimeter wave communication. From the summer of 1965 to the summer of 1966 he was a Research Assistant in the Electronics Research Laboratory at the University of California at Berkeley. Upon returning to Japan in 1966, he rejoined the Central Research Laboratories of the Nippon Electric Company, where he is now working in the field of millimeter wave communication.

Mr. Sugimoto is a member of the Institute of Electronics and Communication Engineers of Japan.

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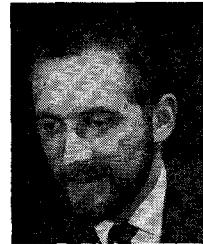
**Jerald A. Weiss** (SM'61) was born in Cleveland, Ohio, on June 9, 1922. He received the A. B. and M. A. degrees in physics in 1949, and the Ph.D. degree in physics in 1953, at the Ohio State University, Columbus.



From 1953 to 1960, he was a member of the technical staff at the Bell Telephone Labs., Inc., Murray Hill, N. J., engaged in ferrite device development. In 1958, he was made Supervisor of his ferrite device group. In 1960, he joined in the founding of Hyltetrics Corp. in Burlington, Mass., engaged in the development and manufacture of microwave solid-state components and subsystems. In 1962, he was appointed to the faculty of the Department of Physics at Worcester Polytechnic Institute, Worcester, Mass., where he now holds the position of Professor of Physics. Since 1962, he also has served as Consultant to the Array Radars Group at M.I.T. Lincoln Laboratory, Lexington, Mass., where he is concerned with ferrite components and other problems relating to phased array system design.

Dr. Weiss is a member of the American Physical Society, Phi Beta Kappa, and Sigma Xi.

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**Alvin Wexler** (S'57-M'66) was born in Winnipeg, Man., Canada, on July 14, 1935. He received the B.Sc. degree in electrical engineering from the University of Manitoba, Winnipeg, in 1958. He attended Imperial College, London, England, on an Athlone Fellowship and a Metropolitan Vickers Bursary and received the Diploma of Imperial College and the Ph.D. degree from the University of London in 1966. His research concerned propagation in waveguides loaded with resistive films and ferrites.

While in the United Kingdom, he was an Assistant Editor of Science Abstracts and later worked for International Computers and Tabulators Ltd., London, as a Consultant. He returned to the University of Manitoba in August, 1966, as a Ford Foundation Fellow and is now an Assistant Professor there with the Numerical Applications Group.

Dr. Wexler is a member of the Association of Professional Engineers of the Province of Manitoba and occasionally does consultant work for Atomic Energy of Canada, Ltd. He is also a member of the G-MTT Technical Committee on Computer-Aided Design of Microwave Circuits.



**Richard Shubert** (S'66) was born in Suhl, Germany, and came to the United States in 1950. He majored in electrical engineering for three years at the University of Southern California, Los Angeles, under a General Motors Scholarship, and received the B.S.E.E. degree, cum laude, from Walla Walla College, College Place, Wash., in 1966. In 1968 he received the M.S.E.E. degree at the University of Washington, Seattle, where he is pursuing the Ph.D. degree.

During the summer of 1966 he was active in commercial aircraft avionics flight testing with the Boeing Company, while the summer of 1968 he spent participating in thermionic energy conversion research at Jet Propulsion Laboratory.