

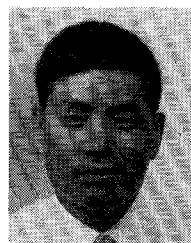
Contributors



Arlon Taylor Adams (M'58) was born in Bottineau, N. Dak., on April 26, 1931. He received the B.A. degree in applied science from Harvard University, Cambridge, Mass., in 1953, and the M.S. and Ph.D. degrees in electrical engineering in 1961 and 1964, respectively, both from the University of Michigan, Ann Arbor.

He served as a Line Officer in the Atlantic Destroyer Fleet from 1953 to 1957, and until 1959 he was employed by Sperry Gyroscope Company, Long Island, N. Y. From 1959 to 1963 he was a Graduate Research Associate at the University of Michigan, Ann Arbor. He joined the faculty of Syracuse University, Syracuse, N. Y., in 1963 as an Assistant Professor of Electrical Engineering and advanced to Associate Professor in 1968. His primary concerns in research are in matrix methods for antennas and microwaves.

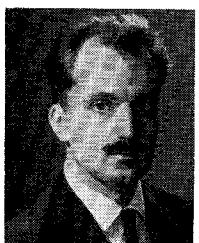
Dr. Adams is a member of Phi Kappa Phi and Eta Kappa Nu.



Christopher T. M. Chang was born in Nanjing, China, on April 2, 1936. He received the B.S. degree in engineering from the National Taiwan University, Taipei, Taiwan, China, in 1957, and the M.S. and Ph.D. degrees in electrical engineering from the University of Southern California, Los Angeles, in 1962 and 1968, respectively.

In 1962 he was with the Applied Research Laboratory, Glendale, Calif., engaged in the development and design of the first ARL computer console for on-line spectrochemical analysis. From 1963 to 1968 he was a Research Assistant in the Department of Electrical Engineering at the University of Southern California, where his research interest was in the study of nonideal type-II superconductors. He joined Argonne National Laboratory, Argonne, Ill., in 1968, and is currently involved in the development of several microwave devices for high-energy-physics experiments.

Dr. Chang is a member of the American Physical Society and the American Scientific Affiliation.



John C. Beal (M'66) was born in London, England, on July 15, 1933. He received the B.Sc. and Ph.D. degrees in electrical engineering, both from University College, London, England, in 1958 and 1964, respectively.

From 1962 to 1965 he was a Research Engineer with Redifon, Ltd., England. He then became Assistant Professor of Electrical Engineering at Colorado State University, Fort Collins, Colo. In 1967 he joined the staff of Queen's University, Kingston, Ont., Canada, where he is now Associate Professor of Electrical Engineering and is engaged in research on surface waves and guided communications.

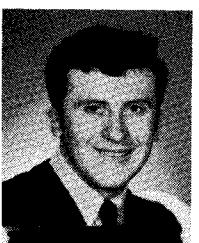
Dr. Beal is a member of the Institution of Electrical Engineers of London.



Andrew Farrar (M'70) received the B.S.E.E. degree from Lafayette College, Easton, Pa., in 1958, and the M.S.E.E. degree from Syracuse University, Syracuse, N. Y., in 1966.

From 1959 to 1962 he was employed by the Communication Products Department, General Electric Company, Lynchburg, Va., where he worked in the Advanced Engineering Unit, developing new concepts in microwave solid-state devices. Since 1962 he has been with Heavy Military Electronic Systems, General Electric Company, Syracuse, N. Y. His main interests have been in the use and development of the numerical analysis methods for the microwaves and antenna problems.

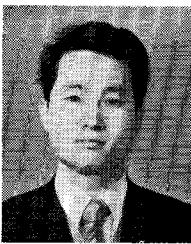
Mr. Farrar is a member of Tau Beta Pi and Eta Kappa Nu.



Peter Benedek (S'67) was born on December 15, 1946. He received the B.Eng. Elec. Hons. and M.Eng. degrees from McGill University, Montreal, Que., Canada, in 1969 and 1971, respectively.

From 1967 to 1969 he was associated with RCA Victor in Montreal where he worked on the development of stripline microwave components for earth satellite ground stations and on an extended network simulation program. In 1969 he was involved in the creation of a computerized multiphasic health screening clinic, demonstrated at Man and His World in Montreal. Since 1969 he has been doing research in numerical methods in electromagnetic problems at McGill University, where he is now working toward the Ph.D. degree in Electrical Engineering as a National Research Council Scholar.

Mr. Benedek is a member of Sigma Xi. In 1969 he received the IEEE Region 7 Student Prize Paper award.



Kazuhito Furuya was born in Yamanashi Prefecture, Japan, on February 10, 1948. He received the B.S. degree in electrical engineering in 1970, and the M.S. degree in 1972, both from the Tokyo Institute of Technology, Tokyo, Japan.

He is presently studying towards the Ph.D. degree at Tokyo Institute of Technology, on the light beam transmission and the integrated optics.

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



D. L. Hollway (SM'62) was born in Ballarat, Victoria, Australia, on December 5, 1915. He received the B.E.E. and M.Eng.Sc. degrees from Melbourne University, Melbourne, Victoria, Australia, and the D.Sc.Eng. degree from Sydney University, Sydney, New South Wales, Australia, in 1937, 1939, and 1954, respectively.

From 1940 to 1946 he served in the Valve Division of Standard Telephones and Cables, Ltd., Sydney, handling engineering problems in the production of transmitting, receiving, and radar tubes. Since joining the Commonwealth Scientific and Industrial Research Organization in 1946 he has developed theoretical and analog methods of determining electron motion in the presence of space-charge and magnetic fields, electron beam tubes, and measurement techniques at UHF and microwave frequencies.

Dr. Hollway is a senior member of the Institution of Radio and Electronic Engineers in Australia.



I. G. Morgan was born in Dewsbury, England, on June 29, 1918. He received the B.Sc. (special) degree in physics with first-class honors from the University of London, London, England, in 1939.

During World War II he was a Member of the Scientific Civil Service, developing military applications of radar. From 1950 to 1964 he worked in the electronics sector of the scientific instrument industry, specializing in millimetric microwave components. Since 1964 he has been employed in the Microwave Section of the National Standards Laboratory, Commonwealth Scientific and Industrial Research Organization, Sydney, New South Wales, Australia.

Mr. Morgan is a member of the Institution of Electrical Engineers.

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D. Marcuse (M'58) was born in Koenigsberg, East Prussia, Germany, on February 27, 1929. He received the degree of Diplom Physiker from the Freie Universität, Berlin, Germany, and the degree of Dr. Ing. from Technische Hochschule, Karlsruhe, Germany, in 1954 and 1962, respectively.

From 1954 to 1957 he worked at the Central Laboratory, Siemens and Halske, Berlin, Germany, on transmission-line problems and the development of the circular electric waveguide. In 1957 he became a Member of the Technical Staff of the Bell Telephone Laboratories, Inc., Holmdel, N. J., and worked on the circular electric waveguide and masers. He is presently working on the transmission aspect of a light communications system. In addition, he is also an Adjunct Associate Professor at the University of Utah, Salt Lake City. He is the author of two books.

Mr. Marcuse is a member of the Optical Society of America.

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Henry J. Riblet (A'45-M'55-F'58) was born in Calgary, Canada, on July 21, 1913. He received the B.S. and Ph.D. degrees from Yale University, New Haven, Conn., in 1935 and 1939, respectively.

From 1939 to 1941 he taught mathematics at Adelphi College, Garden City, N.Y., and at Hofstra College, Hempstead, N.Y. He joined the staff of the Massachusetts Institute of Technology Radiation Laboratory, Cambridge, in 1942, and at the close of World War

II was in charge of one of the three developmental sections of the Antenna Group. From 1946 to 1948 he headed the RF group at the Submarine Signal Company, Boston, Mass. At present he is affiliated with the Microwave Development Laboratories, Inc., Needham Heights, Mass.

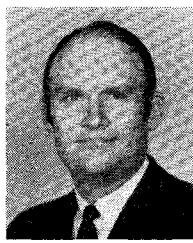
Dr. Riblet is a member of the American Mathematical Society and the American Physical Society.

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W. Kenneth McRitchie was born in Sarnia, Ont., Canada, on November 18, 1946. He received the B.Sc. degree in electrical engineering in 1969, and the M.Sc. degree in 1971, both from Queen's University, Kingston, Ont., Canada.

From 1969 to 1970 he was a Research Assistant at Queen's University and from 1970 to 1971 he held a Canadian Transport Commission Fellowship. He is now working towards the Ph.D. degree at the University of British Columbia, Vancouver, B. C., Canada, on the problem of discontinuities in ferrite-filled waveguides for electronically scanning antenna arrays.



P. Silvester (S'60-M'64) was born on January 25, 1935. He received the B.S. degree in electrical engineering from the Carnegie Institute of Technology, Pittsburgh, Pa., the M.A.Sc. degree from the University of Toronto, Ont., Canada, and the Ph.D. degree in electrical engineering from McGill University, Montreal, Que., Canada, in 1956, 1958, and 1964, respectively.

During 1967 to 1968 he spent a year at the Imperial College of Science and Technology, London, England, doing research work in numerical analysis of transmission-line conductors and waveguides. At present he is Associate Professor of Electrical Engineering at McGill University. He is the author of a textbook on electromagnetic fields and

is currently teaching courses and conducting research in electromagnetic theory and numerical analysis. His current research interests center on the development of efficient computational algorithms for solution of electromagnetic field problems by numerical methods, with emphasis on guided-wave problems and electric power devices.

Dr. Silvester is a member of the Society for Industrial and Applied Mathematics, Sigma Xi, the Tensor Society of Great Britain, and is a Registered Engineer in the Province of Quebec.

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P. I. Somlo (SM'71), for a photograph and biography please see page 199 of the February 1972 issue of this TRANSACTIONS.



Yasuharu Suematsu (M'62) was born in Gifu Prefecture, Japan, on September 22, 1932. He received the B.S., M.S., and Ph.D. degrees, all in electrical engineering, from the Tokyo Institute of Technology, Tokyo, Japan, in 1955 and 1957, respectively.

In 1960 he was appointed a Research Assistant in the Department of Electrical Engineering at the Tokyo Institute of Technology, and in 1961 he was transferred to the Department of Electronics Engineering of the same Institute, as an Associate Professor. At Tokyo Institute of Technology he has been working primarily in the field of microwaves. He is presently engaged in the study of semiconductor laser, nonlinear, and integrated optics. He stayed at the ElectroScience Laboratory of the Ohio State University for the study of nonlinear optics from 1967 to 1968.

Dr. Suematsu is a member of the Institute of Electronics and Communication Engineers of Japan and the Japan Society of Applied Physics.