

Contributors



M. Michael Brady (S'53-M'56) was born in San Francisco, Calif., on December 15, 1933. He received the B.E.E. degree from George Washington University, Washington, D. C., in 1956; the M.S. degree in electrical

engineering from Massachusetts Institute of Technology, Cambridge, in 1958; and the degree of Engineer from Stanford University, Calif., in 1962.

From 1952 until 1956 he was an Engineering Aide in the Radio Standards Division of the National Bureau of Standards, Washington, D. C. and Boulder, Colo. From 1956 until 1958, he was a Research Engineer on the Radar Project of the Servomechanisms Laboratory of the Massachusetts Institute of Technology. During the 1958-1959 academic year, he held a Fulbright study grant and was a guest engineer at the Norwegian Defense Research Establishment, Radar Division, Bergen, Norway. From 1959 until 1962 he conducted research on the instrumentation of high-power microwave devices at the Microwave Laboratory of the W. W. Hansen Laboratories of Physics of Stanford University. He is presently a member of the staff of the Stanford Linear Accelerator Center.

Mr. Brady is a member of Sigma Xi and Sigma Tau.



Robert V. Garver (M'57) was born in Minneapolis, Minn., on June 2, 1932. He received the B.S. degree in physics from the University of Maryland, College Park, in 1956.

In 1956, he became affiliated with the Microwave Development Section of Diamond Ordnance Fuze Laboratories, Washington, D. C., where he has been working on microwave semiconductors.

Mr. Garver is a member of the American Physical Society.

gram and subsequently the recipient of a Communications Development Training Program Fellowship. He has been engaged in work on microwave antennas, ferrite devices, ferromagnetic resonance, and optical effects.

Dr. Kaminow is a member of Sigma Xi and the American Physical Society.

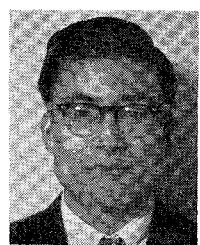


Rudolf Kompfner (F'50) was born in Vienna, Austria, on May 16, 1909. He studied architecture at the Technische Hochschule, Vienna, where he received the Diplom. Ingenieur degree in 1933. He received the

Ph.D. degree from Oxford University, England, in 1951.

He practiced architecture in London, Eng., until 1941, meanwhile pursuing physics and radio engineering only as a hobby. Physics and radio engineering became his main profession in 1941 when the British Admiralty offered him a position under Prof. M. L. Oliphant at Birmingham University, Birmingham, Eng. It was at Birmingham University that he invented the traveling-wave tube. From 1944 to 1951 he did further work for the British Government at various institutions, including Oxford University where he worked under Prof. Lord Cherwell. Since joining the technical staff of Bell Telephone Laboratories, Murray Hill, N. J. in December, 1951, he has continued to specialize in microwave electronics, including traveling-wave tubes, backward-wave oscillators, ferrite isolators and other areas. Recently, his area of activity has been enlarged to include research on satellite communications. He was named Director of Electronics Research at the Laboratories in 1955 and Director of Electronics and Radio Research Laboratory in 1957.

Dr. Kompfner is a Fellow of the Physical Society in London.



Ivan P. Kaminow (A'54-M'59) was born in Union City, N. J. on March 3, 1930. He received the B.S.E.E. degree in 1952 from Union College, Schenectady, N. Y., the M.S.E. degree in 1954 from the University of California at Los Angeles, and the M.A. and Ph.D. degrees in applied physics in 1957 and 1960, respectively, from Harvard University, Cambridge, Mass.

From 1952 to 1954 he was a member of the technical staff at Hughes Aircraft Co., Culver City, Calif., where he worked on microwave antennas. In 1954 he joined the Bell Telephone Laboratories, Murray Hill, N. J., where he was a member of the Communications Development Training Pro-



William Culshaw (SM'57) was born in Lancashire, England, on February 5, 1914. He received the B.Sc. degree in physics from the University of Sheffield, England, in 1941, and the B.Sc. degree in mathematics and the Ph.D. de-

gree both from the University of London in 1947 and 1952, respectively.

From 1942 to 1954 he was a staff member of the Telecommunications Research Establishment, Malvern, England, where he was with the Microwave Receiver and Millimeter Wave Divisions. From 1954 to 1956 he was a member of the Radio Physics Laboratory, Ottawa, Canada, where he worked on scattering and antenna problems. From 1956 to 1961 he was at the National Bureau of Standards, Boulder Laboratories, Boulder, Colo., becoming Chief of the Millimeter Wave Research Section. He joined the Palo Alto Laboratory of General Telephone and Electronics Laboratories, Inc., in 1961 and is presently in charge of the gas discharge laser program.

Dr. Culshaw is a member of the American Physical Society and of the Scientific Research Society of America.



Kaneyuki Kurokawa (M'60) was born in Tokyo, Japan, on August 14, 1928. He received the B.S.E.E. and Doctor of Engineering degrees in 1951 and 1958, respectively, from the University of Tokyo.

He was a participant in the Foreign Student Summer Project held at the Massachusetts Institute of Technology, Cambridge, in 1954. In 1957, he became an Assistant Professor at the Uni-

versity of Tokyo after having worked one year as an Assistant. From 1959 to 1961, on a leave of absence from the University, he engaged in research on low-noise amplifiers at Bell Telephone Laboratories, Murray Hill, N. J.

Dr. Kurokawa is a member of the IEE of Japan and the Institute of Electrical Communication Engineers of Japan.

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William H. Louisell was born in Mobile, Ala., on August 22, 1924. He attended the University of Florida, Gainesville, from 1941-1943 and Kenyon College, Gambier, Ohio, from 1943-1944. He served in the Army from 1943 to 1947. He received the B.S., M.S. and Ph.D. degrees in physics from The University of Michigan, Ann Arbor, in 1948, 1949 and 1953, respectively.

He has been a member of the technical staff of Bell Telephone Laboratories, Murray Hill, N. J. since 1953. He has taken an active part in research on the gyromagnetic ratio of the free electron, broad-band directional couplers, slalom electrostatic focusing of electron beams, and electron beam parametric amplifiers. Most recently he has been concerned with the quantum statistical properties of parametric amplifiers, masers and attenuators.

Dr. Louisell is a member of the American Physical Society, Phi Eta Sigma, Phi Kappa Phi, Sigma Xi and Gamma Alpha.

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John A. Rosado was born in Baton Rouge, La., on June 15, 1936. He received the B.A. degree in physics from Harvard University, Cambridge, Mass., in 1958.

From 1958 until January, 1959, he was employed by the

Diamond Ordnance Fuze Laboratories, Washington, D. C. Upon the completion in January, 1961, of a tour of duty with the U. S. Army as a chemical officer, he returned to the Laboratories, where he is presently engaged in plasma studies.

Mr. Rosado is a member of the American Physical Society.

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S. Perry Schlesinger (M'55) was born in New York, N. Y., on October 9, 1918. He received the B.A. degree from Michigan State University, East Lansing, in 1941, the M.S. degree from Union College, Schenectady, N. Y., in 1950, and the Ph.D. degree in engineering from The Johns Hopkins University, Baltimore, Md., in 1957.

In 1946, following war service as a



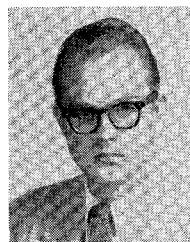
destroyer engineer officer, he joined the General Electric Company, Schenectady. He subsequently served as an Assistant Professor of Electrical Engineering on the faculties of Union College and the U. S. Naval Academy, Annapolis, Md. From 1953 to 1956 he was a Research Associate at the Radiation Laboratory of Johns Hopkins, working on back-scattering problems, millimeter techniques and problems in dielectric image line transmission. He is now an Associate Professor of Electrical Engineering at Columbia University, New York, N. Y., where, in addition to teaching and consulting, he is engaged in research on surface-wave guiding and radiating structures.

Dr. Schlesinger is a member of Sigma Xi and Phi Kappa Phi.

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S. R. Seshadri (SM'61), for a photograph and a biography, please see page 300 of the July, 1962, issue of these TRANSACTIONS.

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Arvids Vigants was born in Bauska, Latvia, on February 19, 1932. He received the B.E.E. degree from the College of the City of New York, N. Y., in 1956. He then became Assistant in Electrical Engineering at Columbia University, New York, where he received the M.S. degree in June, 1957, and the D.Eng.Sc. degree in March, 1962.

He was an Associate at Columbia University until 1962, when he joined the technical staff of Bell Telephone Laboratories, Murray Hill, N. J.

Dr. Vigants is a member of Eta Kappa Nu, Tau Beta Pi and Sigma Xi.

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Robert L. Williams (M'59) was born in Wells Bridge, N. Y., on May 28, 1928. He received the B.E.E. degree from Clarkson College of Technology, Potsdam, N. Y., in 1949 and the M.E.E. degree from Syracuse University, Syracuse, N. Y., in 1960.

From 1949 to 1951 he was a Field Engineer for IBM Corporation in Washington, D. C. and Endicott, N. Y. in the EAM division. In 1951 he joined Bendix Corporation, Sidney, N. Y. as a Senior Engineer in the Engine Analyzer and Jet Ignition Engi-

neering Department. From 1953 to 1956 he was employed by Rome Air Development Center, Griffiss Air Force Base, Rome, N. Y., as an electronics engineer in the RF Duplexer and Applied Techniques section. Since 1956 he has been with General Electric Co., Utica, N. Y., where he is concerned with the design and development of microwave components for missile radio guidance systems, and the analysis and design of new components for advanced guidance systems. During the past two years he has also served as an instructor in mathematics in the evening division at Utica College, Utica, N. Y.

Mr. Williams is a member of Tau Beta Pi.

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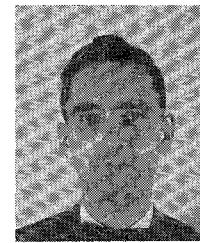


Jack Willis, (A'58) was born in Greenock, Scotland, on December 22, 1917. He received the B.Sc. degree from the University of London, Eng., in 1945.

From 1933 to 1941, he served as Assistant Manager in an electrical engineering firm. He has been with the Royal Technical College in Glasgow for six years, with the University of Manchester for eleven years, and with the University of California, Los Angeles, for the last three years. His professional experience has been augmented, principally through consulting, by service to General Electric, A. V. Roe and Co., Technicolor Corporation, Electronic Specialties Co., and Diodes, Inc.

Mr. Willis has been active as an official of the IEE and is currently a member of the M.I.T. Semiconductor Electronics Education Committee.

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Leo Young (M'54-SM'57) was born in Vienna, Austria, on August 18, 1926. After winning a scholarship from St. Johns College, Cambridge, England, he obtained the B.A. degree with honors in mathematics in 1945, and the B.A. degree with honors in physics in 1947. He received the M.A. degree from Cambridge University in 1950. He was awarded the M.S.E.E. and the Dr.Eng. degrees both from Johns Hopkins University, Baltimore, Md., in 1956 and 1959, respectively.

He was an engineer with A. C. Cossor, Ltd., London, from 1948 to 1951. From then until 1953 he was associated with Decca Radar, Ltd., London, Eng., as Head of the Microwave and Antenna Laboratory. He came to the United States in 1953 to join the Westinghouse Electric Corporation, Baltimore, Md., where he is presently an Advisory Engineer in the Electronics Division.

Dr. Young is a registered professional engineer in Maryland and a member of Sigma Xi, the AIEE and the IEE.