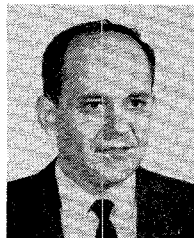


Contributors

Robert Bawer (S'47-A'50) was born on February 12, 1925, in Ellenville, N. Y. He first entered the University of Florida in



R. BAWER

1942, returning after two years of military service to receive the bachelor of electrical engineering degree in 1947. From 1947 to 1949, he served as a research assistant at the Laboratory for Insulation Research, M.I.T. He received the M.S. degree in 1949 and in that year joined the staff of Melpar, Inc., where he was engaged in the design and development of multichannel communication equipment, railroad signaling and control devices, and microwave systems and components. In 1956 he left his position as project engineer at Melpar, Inc., to accept his present position as a principal engineer at the Emerson Research Laboratories in Washington, D. C.



Robert W. Beatty (S'43-A'45-M'50-SM'53) was born in York, Pa., on May 31, 1917. He received the degree of B.S. in electrical engineering in 1939 from the George Washington University, Washington, D. C., and the degree of S.M. in electrical communication in 1943 from the Massachusetts Institute of Technology, Cambridge, Mass. From 1940 to 1942, he was associated with the Naval Research Laboratory in work on underwater sound and radio direction finding. He was a staff aid at the M.I.T. Radar School in 1943 and served in the U. S. Naval Reserve from 1943 to 1946. He has had several years experience in the field of consulting radio engineering for the radio broadcast industry. Since 1948, he has been associated with the National Bureau of Standards, Boulder, Colo., working in the field of microwave standards, and is Chief of the Microwave Circuit Standards Section.



R. W. BEATTY

Mr. Beatty is a member of Sigma Tau, Theta Tau, REISA, and Commission I of the U.S.A. National Committee of the International Scientific Radio Union.



Howard Boyet was born on August 2, 1924 in New York, N. Y. He received the B.S. degree in physics from the College of

the City of New York in 1944 and the Ph.D. in physics from New York University in 1953. From 1944 to 1947, he did research in supersonic aerodynamics at the National Advisory Committee for Aeronautics. From 1947 to 1953 he was on the faculty of New York University as physics instructor and did research in aerodynamics and in the wave mechanical theory of atomic scattering. Since 1953, he has been engaged in research and development on solid state microwave devices with Bell Telephone Labs., Murray Hill, N. J.



H. BOYET

Dr. Boyet is a member of the American Physical Society and the American Institute of Physics.



Sinclair Chen was born in Shanghai, China, on June 8, 1930. In June, 1949 he came to the United States to attend Stanford University where he received the B.S. degree in electrical engineering in June, 1952. After graduation, he was employed by the Standard Coil Product Company in Los Angeles, Calif. From September, 1953 to September, 1954 he attended Syracuse University where he received the M.S. degree in electrical engineering in September, 1954. Since October, 1954, he has been a part-time research assistant and student in the Department of Electrical Engineering of The Ohio State University.



S. CHEN

He is a member of Sigma Xi.



Robert E. Collin (M'54) was born at Donalda, Alberta, Can., on October 24, 1928. He received the B.Sc. degree in engineering physics from the University of Saskatchewan in 1951. From 1951 to 1953, he studied at Imperial College, London, England, on an Athlone Fellowship. From 1953 to 1954, he was on a Canadian Defence Research Board grant. He received the Diploma of Imperial College and the



R. E. COLLIN

Ph.D. degree from the University of London in 1954. Since then and up to the present time, Dr. Collin has been a scientific officer at the Canadian Armament Research and Development Establishment, Valcartier, P.Q., where he is engaged in microwave work related to guided missiles.



John J. Faris was born in Grandview, Wash., on November 7, 1921. He graduated from Reed College, Portland, Ore., in 1943 and received the Ph.D. degree in physics from the University of Washington in 1951. Since that time he has been teaching physics, first at the Pacific University, Forest Grove, Wash., and since 1954 at Colorado Agriculture and Mining College. During the summer of 1955, he was employed by the National Bureau of Standards at Boulder, Colo.



J. J. FARIS

His fields of major interest include secondary emission of electrons, solid state physics, and microwaves.

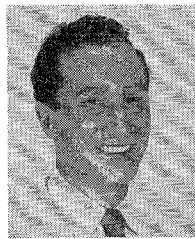
Dr. Faris is a member of The American Physical Society, The American Association of Physics Teachers, The American Association of University Professors, The Colorado-Wyoming Academy of Science, and Sigma Xi.



For a photograph and biography of Rabindra N. Ghose, see page 76 of the January, 1957 issue of these TRANSACTIONS.



George P. Kefalas (S'50-A'52) was born in Granite City, Ill., on February 7, 1927. He received the B.S.E.E. degree in 1950 and the M.S.E.E. degree in 1951, both from the University of Illinois, Urbana, Ill.



G. P. KEFALAS

From 1950 to 1951 he served as a research assistant at the University of Illinois, where he was engaged in experimental vhf-uhf receiver and antenna work for a signal reception study program. In 1951, he

joined the Sperry Gyroscope Co., where he worked in the design and development of microwave systems and components and missile guidance radars. He joined Melpar, Inc., in 1955 as a senior engineer where he was engaged in the design and development of microwave components. He is now directing the design and development of a proximity fuze as project engineer at Melpar.



Herbert Kirschbaum (A'55) was born in Cleveland, Ohio, on February 6, 1920. He received the B.S. degree in 1942 from the Cooper Union, following which he entered the employ of the Westinghouse Electric Corporation. He received the M.S. degree from the University of Pittsburgh under the Pitt-Westinghouse cooperative plan in 1946. In 1946 he joined the staff of The Ohio State University to both teach



H. KIRSCHBAUM

and do research on pulse transformers. During 1952-1953, he took a leave of absence from Ohio State University to complete the requirements for the Ph.D. degree at Carnegie Institute of Technology. Upon returning to Ohio State University he has, in addition to teaching, been affiliated with the Antenna Laboratory of Ohio State University. He is an Associate Professor in the Department of Electrical Engineering at Ohio State.

Dr. Kirschbaum is a member of Eta Kappa Nu and Sigma Xi.



John M. Richardson (S'56) was born September 5, 1921, in Rock Island, Ill. He received the B.A. degree in physics from the

University of Colorado in 1942, and served as Electronics Officer in the USNR from 1943 to 1946. He received the M.A. and



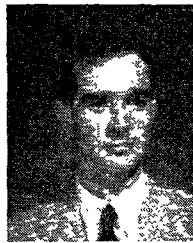
J. M. RICHARDSON

Ph.D. degrees from Harvard University, the latter in 1951. He was subsequently employed by the Denver Research Institute and the National Bureau of Standards, the latter since 1952. His work in the Microwave Physics Section is concerned with the application of microwaves to problems of physical standards and constants, and he is currently working on a precision millimeter wave interferometer.

Dr. Richardson is a member of the American Physical Society, Sigma Xi, and the Research Society of America.



Donald C. Stinson (S'50-M'57) was born in Malta, Idaho, December 7, 1925. He specialized in electrical engineering and received the B.S. degree from Iowa State College in 1947, the M.S. degree from California Institute of Technology in 1949, the E.E. degree from the University of California in 1953, and the Ph.D. degree from the University of California in 1956.



D. C. STINSON

He spent one year with General Electric Company as a test engineer, and for three summers was a member of the technical staff of the Research and Development Laboratories at Hughes Aircraft Company. Dr. Stinson is now with the Missile Systems Division of Lockheed Aircraft Corp., Sunnyvale, Calif.

Dr. Stinson is a member of Sigma Xi, Eta Kappa Nu, and Pi Mu Epsilon.

Raymond M. Vaillancourt (A'54) was born in Levis, Quebec, Can., on September 14, 1926. He received the degree of B.A.S. in



R. M. VAILLANCOURT

physics from Laval University, Quebec, in 1953. Since 1953, he has been a member of the scientific staff of the Canadian Armament Research and Development Establishment, Valcartier, Quebec, where he has been engaged in microwave studies related to guided missile applications.

Since 1954, he has been in charge of the microwave laboratory for undergraduates at Laval University.

Mr. Vaillancourt is an associate member of the Canadian Association of Physicists.



Samuel Weisbaum was born on October 28, 1925 in New York, N. Y. He enlisted in the U. S. Army in 1943 and served with the



S. WEISBAUM

87th Infantry Division. In 1945 he entered New York University. He received the B.S. degree in physics in June, 1947, and the M.S. degree in 1948. In 1947, he was awarded the Morse Physics Medal. From 1950-1953 he was on the New York University faculty as a physics instructor doing research in microwave spectroscopy. He received the Ph.D. degree in physics in June, 1953. Since 1953 he has been engaged in solid state and microwave research and development with Bell Telephone Labs., Murray Hill, N. J.

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

