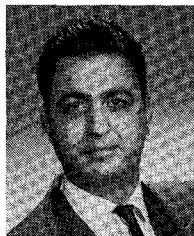


## Contributors



**Ezekiel Bahar** (S'63-M'64) was born in Bombay, India, on May 23, 1933. He received the B.Sc. and M.Sc. degrees in electrical engineering in 1958 and 1960, respectively, from the Technion-Israel Institute of Technology, Haifa, Israel. He received the Ph.D. degree from the University of Colorado, Boulder, in 1964.

He was a Research Assistant and an Instructor at the Technion from 1958 to 1962. In 1962, he joined the faculty of the University of Colorado, where he worked as a Research Associate. His field of research was the investigation of propagation in terrestrial waveguides with the aid of microwave models. He was an Assistant Professor at the University of Colorado between 1964 and 1967, and is presently an Associate Professor at the University of Nebraska, Lincoln.

Dr. Bahar is a member of the IEEE Microwave Theory and Techniques group and the Antennas and Propagation group.



**James J. Campbell** was born in Philadelphia, Pa., on November 20, 1936. He received the B.S. degree in physics from St. Joseph's College, Philadelphia, in 1958, and the M.S. degree in physics from the University of Pennsylvania, in 1960.

From 1958 to 1961 he was a Teaching and Research Assistant in the Department of Physics, University of Pennsylvania. From 1961 to 1962 he was an Instructor in the Mathematics Department, LaSalle College, Philadelphia. From 1962 to 1964 he was a Research Engineer at North American Aviation, Downey, Calif., where he conducted theoretical studies in electromagnetics and plasma reentry effects. From 1964 to 1966 he was a member of the Electromagnetic Radiation Section of the Electro-Countermeasures Systems Dept., Philco Corporation (Aeronutronic Division), Newport Beach, Calif. Here he was engaged in analytical studies of wave propagation in inhomogeneous media, voltage breakdown phenomena, and antenna mismatch effects in the presence of ionized media. He is presently a member of the System Techniques Dept., Hughes Aircraft Company, Fullerton, Calif. Since joining Hughes he has been engaged in analytical studies of fixed beam radar tracking, signal processing, balanced strip delay lines, propagation of

electromagnetic waves along multi-conductor transmission lines, and the propagation of piezoelectric surface waves in quartz and lithium niobate crystals.



**Seymour B. Cohn** (S'41-A'44-M'46-SM'51-F'59), for a photograph and biography, please see page 267 of the April, 1968, issue of this TRANSACTIONS.



**Milton E. Cram** (S'62-M'63) was born in Wyandotte, Mich., on July 16, 1939. He received the B.E.E. (Cooperative Plan—With Highest Honors) and M.S.E.E. degrees from the Georgia Institute of Technology, Atlanta, in 1962 and

1965, respectively. He recently completed the requirements for the Ph.D. degree at the same institution.

From 1957 to 1961 he was with the Ford Motor Company Process Development Department, Dearborn, Mich., as a cooperative trainee. In 1962 he joined the Research Laboratories Division of the Bendix Corp. as a microwave engineer. He returned to Georgia Institute of Technology in 1963 as a Research Assistant at the Engineering Experiment Station engaged in RFI analysis. From 1964 to 1966 he held an NSF Coop Graduate Fellowship for graduate studies at Georgia Tech. In 1966 he joined the Research and Development Department of Scientific-Atlanta, as a part-time engineer, working on ferrite devices and solid-state microwave oscillators and switches. He is presently with Schlumberger Well Services, Houston, Tex., where he is engaged in the investigation of various electronic well logging systems.

Dr. Cram is a member of Tau Beta Pi, Eta Kappa Nu, Phi Kappa Phi, Pi Mu Epsilon, and Sigma Xi.



**Dipti Das** was born in Calcutta, India, on July 16, 1940. She received the B.Tel.E. degree from Jadavpur University, Calcutta, India, in 1962, and the M.E. degree in electrical communication engineering from the Indian Institute of Sci-

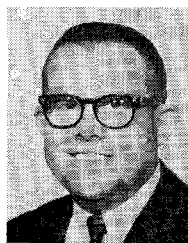
ence, Bangalore, India, in 1963. From 1964 to 1967 she worked as a Senior Research Fellow of C.S.I.R., India, first at the Microwave Tube Division of the Central Electronics Engineering Research Institute, Pilani, India, and later at the Department of Electronics and Telecommunication Engineering, Jadavpur University, where she worked toward the Ph.D. degree in microwave components.

She is presently a Pool Officer at Jadavpur University.



**Reed L. Fisher** (S'57-M'58) was born in Bloomsbury, Pa., on March 10, 1932. He received the B.S. degree in electrical engineering from Pennsylvania State University, University Park, in 1958, and the M.S. degree in electrical engineering from New York University, New York, N. Y., in 1962.

In 1958 he joined Bell Telephone Labs., Inc., Murray Hill, N. J., where he completed the Communications Development Training Program. From 1958 to 1964, he was engaged in the design and development of microwave filters and diode switches. Since 1964, he has been engaged in the study of high-speed microwave-carrier pulse techniques.



**William R. Jones** (S'65-M'66) was born in Globe, Ariz., on November 9, 1932. He received the B.A. degree in mathematics from the University of California, Riverside, in 1957, and the M.S. and Ph.D. degrees in mathematics from

Stanford University, Stanford, Calif., in 1958 and 1967, respectively.

From 1952 to 1954 he served in the U. S. Navy as a Training Devices Technician. While at the University of California (1954-1957), he was employed at the U. S. Naval Ordnance Laboratory, Corona, as a Microwave Technician. From 1958 to 1960 he was employed at the IBM Watson Laboratory, New York, as a member of a microwave computer group investigating the application of microwave techniques to the development of high-speed logical circuits. In June, 1960, he joined Hughes Aircraft Company, Fullerton,

Calif., and concentrated primarily on the study of electromagnetic surface wave excitation and diffraction problems. From 1962 to 1966 he returned to full-time academic study at Stanford University with the aid of a Hughes Fellowship. Presently he is head of the Applied Analysis Section at Hughes Ground Systems and is engaged in studies on the numerical solution of electromagnetic boundary value problems and the excitation and propagation of surface waves in piezoelectric materials.

Dr. Jones is a member of Sigma Xi.

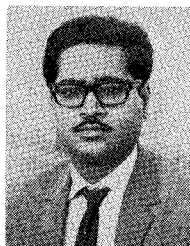


**Demetrius T. Paris** (M'59-SM'64) was born in Greece on September 27, 1928. He received the B.S.E.E. degree from Mississippi State University, State College, in 1951, and the M.S. and Ph.D. degrees in electrical engineering,

from the Georgia Institute of Technology, Atlanta, in 1958 and 1962, respectively.

From 1952 to 1958 he was employed by Westinghouse Electric Corporation, Atlanta. In 1958 he joined the staff of Lockheed-Georgia Company, Marietta, and until 1959 he was a Senior Engineer concerned with airborne electronic systems. He is presently Professor and Assistant Director of the School of Electrical Engineering at the Georgia Institute of Technology, and a Consultant to Lockheed-Georgia Company.

Dr. Paris is a member of Sigma Xi, Tau Beta Pi, ASEE, and of the Basic Sciences Committee of the IEEE, and Chairman of the Atlanta Section of the IEEE.



**O. P. Rustogi** was born in Manaka, Rajasthan, India, on January 5, 1942. He received the B.Tel.E. and M.Tel.E. degrees from Jadavpur University, Calcutta, India, in 1963 and 1965, respectively.

From 1965 to 1966 he worked as a technical teacher trainee under the Technical Teacher Training Programme of the Government of India at Jadavpur University, where he is presently a Lecturer in the Department of Electronics and Tele-Communication Engineering.

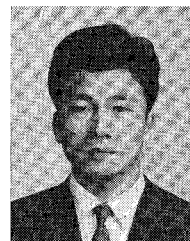


**Charles C. H. Tang** was born in Shanghai, China, on September 27, 1924. He received the B.S. degree in physics from the University of Shanghai in 1946, and the M.S. degree in electrical engineering from Oklahoma State University, Stillwater, in 1952. He entered Harvard University, Cambridge, Mass., on a Gordon McKay Scholarship, and received the Ph.D. degree in applied physics in 1956. From 1956 to 1957 he was a Post-Doctoral Fellow at Harvard.

He has held the following academic appointments: from 1946 to 1949 he taught in the Department of Physics at the University of Shanghai; from 1957 to 1958 he was an Assistant Professor at the University of California, Berkeley; and from 1958 to 1959 he was an Associate Professor of Physics at

Tunghai University, Taichung, Formosa. He was Chief Accountant at the University Textile Co., Ltd., Hong Kong, China, from 1950 to 1951, and affiliated with Bell Telephone Labs., Inc., Holmdel, N. J., from 1959 to 1966. Since 1966 he has been with Bellcomm, Inc., Washington, D. C.

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



**Eikichi Yamashita** (M'66) was born in Tokyo, Japan, on February 4, 1933. He received the B.S. degree from the University of Electro-Communications, Tokyo, in 1956, and the M.S. and Ph.D. degrees from the University of Illinois, Urbana, in 1963 and 1966, respectively, all in electrical engineering.

He was a member of the research staff on millimeter-wave engineering at the Electro-technical Laboratory, Tokyo, from 1956 to 1964. He was with the Electro-Physics Laboratory at the University of Illinois from 1961 to 1963 and from 1964 to 1966. From 1966 to 1967 he was with the Antenna Laboratory at the University of Illinois. Since September of 1967 he has been an Associate Professor at the University of Electro-Communications in Tokyo. His research work since 1956 has been on microstrip transmission lines, hybrid modes of Goubau lines, wave propagation in a gaseous plasma, the pyroelectric effect detector in the submillimeter-wave region, and tunnel diode oscillators.

Dr. Yamashita is a member of the Institute of Electronics and Communication Engineers of Japan and Sigma Xi.