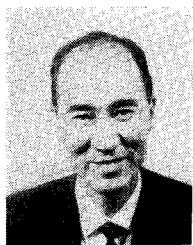


## Contributors

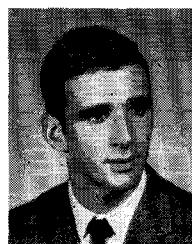


**Teh-ming Chu** was born in Nanking, China, on July 19, 1926. He received the B.S.E.E. degree from the National Chiao-Tung University, Shanghai, China, in 1948, and the M.S.E.E. degree from the Oklahoma State

University, Stillwater, in 1966. He is now working towards the Ph.D. degree at the University of Colorado, Boulder.

He joined the Chinese Civil Aeronautics Administration in 1948 and held various positions until 1962. In 1954 he came to the U. S. to study aeronautical telecommunications and navigational aids and to visit the FAA (then the CAA) facilities as a one-year fellowship holder of the International Civil Aviation Organization. From 1956 to 1962 he was Chief of the Airways Engineering Group, CCAA, and responsible for the establishment of the modern airways system in Taiwan, for which he was awarded a silver medal of merit by the Chinese Ministry of Communication. He then joined the International Civil Aviation Organization Technical Assistance Mission in the Congo and worked there for two years, after which he returned to the U. S. for further study. He was an Instructor at the Oklahoma State University during the fall semester of 1966-1967 and was Research Engineer at the University of Colorado, Boulder, for three months. Since May 1967 he has been with the ESSA Laboratories, Institute for Telecommunication Sciences, Boulder, working on surface waves and acoustic waves.

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**Clark N. Kurtz** was born in New York, N. Y., on October 2, 1945. He received the B.E.(E.E.) degree from New York University, Bronx, N. Y., in 1966, and the M.S. and Ph.D. degrees from Stanford University, Stanford, Calif., in 1967 and 1969, respectively.

From 1966 to 1968 he was an NSF Graduate Fellow. Since 1968 he has been with the IBM Watson Research Center, Yorktown Heights, N. Y., working in pattern recognition methodology.

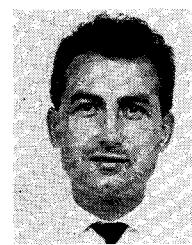
Dr. Hellman is a member of Tau Beta Pi and Eta Kappa Nu and received honorable mention in the latter organization's 1966 competition for the most outstanding electrical engineering student in the United States.

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**Kenneth R. Cook** (S'55-M'62) was born in Oklahoma City, Okla. He received the B.S. degree from the University of Oklahoma, Norman, in 1957, the M.S. degree from Michigan State University, East Lansing, in 1959, and the Sc.D. degree from the University of New Mexico, Albuquerque, in 1962.

From 1962 to 1966 he was a member of the Department of Electrical Engineering at



**Wolfgang Hilberg** was born in Giessen, Germany, on February 7, 1932. He received the Dipl.-Ing. degree in 1957 and the Dr.-Ing. degree in 1963 from the Technical University at Darmstadt, Germany.

Since 1958 he has been a Research Engineer with the Telefunken Research Institute, Ulm, Germany. He worked in the computer field, carrying out practical and theoretical studies. His recent

work has been on problems of high frequency and very short pulse techniques.

Dr. Hilberg is a member of the Verband Deutscher Elektrotechniker and the Nachrichtentechnische Gesellschaft.

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**Clark N. Kurtz**, for a photograph and biography, please see the January, 1969, issue of this TRANSACTIONS.

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**István Palócz** (SM'59) was born in Budapest, Hungary, on September 24, 1920. He received the Engineering Diploma (equivalent to the M.S. degree) from the University of Technical Sciences, Budapest, in 1945, and became Docent at the same university in 1954. He received the Ph.D. degree in electrophysics from the Polytechnic Institute of Brooklyn, Brooklyn, N. Y., in 1962.

From 1943 to 1944 he was associated with the University of Technical Sciences, Budapest, as a Research Assistant; he joined the faculty in 1950 and was an Associate Professor from 1954 to 1956. He also worked for Tungsram Company, Hungary, from 1945 to 1950, first as a Research Staff Member, then as Manager of Quality Control. He was retained as a consultant for the Research Department from 1950 to 1956. From 1957 to 1965 he was with IBM Corporation, first as a Staff Member at the Watson Laboratory, Columbia University, New York, N. Y., then at the IBM Research Center, Yorktown Heights, N. Y., working on electromagnetic theory, microwave electronics, applied mathematics, and memory research. In 1965 he joined the Department of Electrical Engineering, New York University, Bronx, N. Y., as an Associate Professor. He was promoted to the rank of Professor in 1967.

Dr. Palócz was the recipient of the Hungarian National Award for Excellent Teaching in 1956. He is a member of Tau Beta Pi, Eta Kappa Nu, and the New York Academy of Sciences.



**Jerome E. Partch** (S'61-M'62) was born in San Pedro, Calif., on April 17, 1939. He received the B.S. degree in electrical engineering from Stanford University, Stanford, Calif. in 1961, and the M.S. degree in electrical engineering from

the University of Colorado, Boulder. In 1929 he received the Ph.D. degree, also from the University of Colorado.

From 1961 to 1963 he was a Design Engineer for the Aerospace Division of Martin-Marietta, Denver, Colo. From 1963 to 1967 he was a Project Engineer for A.R.F. Products, Boulder. In 1967 he joined the staff at the Institute for Telecommunication Sciences, Boulder, and has been engaged in research on guided wave propagation.



**Chung-li Ren** was born in Chefoo, China, on June 1, 1931. He received the B.S. degree in electrical engineering from Taiwan College of Engineering, Taiwan, China, in 1953. He received the M.S. degree in electrical engineering from University of Notre Dame, Notre Dame, Ind., in 1957, and the Ph.D. degree in electrophysics from the Polytechnic Institute of Brooklyn, Brooklyn, N. Y., in 1964. He joined the Taiwan Power Company in 1953.

From 1957 until 1959, he was a Senior Research Fellow at the Polytechnic Institute of Brooklyn. In 1960, he became a Senior Graduate Assistant at the Microwave Research Institute of the Polytechnic Institute where he was engaged in research on wave

propagation and scattering in the multimode waveguides and other related topics in electromagnetic theory. He was also a lecturer in the Electrical Engineering Department at the same institute. In 1965, he became a member of the technical staff at the Bell Telephone Laboratories, North Andover, Mass., where he has been engaged in the development of solid-state down converters, the study of waveguide with arbitrary cross sections, the analysis and design of coupled TEM line filters and the design of waveguide filters. His current interests and activity are in the area of the development of millimeter wave transmission components.

Dr. Ren is a member of Sigma Xi.



**William Streifer** (M'57), for a photograph and biography, please see the January, 1969, issue of this TRANSACTIONS.