

Contributors



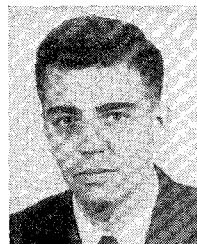
George I. Cohn (S'42-A'43-M'49-SM'51) was born in Lake Forest, Ill. on January 29, 1921. He received the B.S.E.E. degree in 1942 from the California Institute of Technology, Pasadena, and the M.S.E.E. and

Ph.D.E.E. degrees from the Illinois Institute of Technology, Chicago, in 1947 and 1951, respectively.

From 1942 through 1946 he was a Lieutenant in the U. S. Army Signal Corps where he was concerned with construction on and installation and maintenance of airborne electronic equipment for radar bombing, navigation and IFF. From 1947 through 1961 he was with the Electrical Engineering Department of the Illinois Institute of Technology (Professor, 1953-1961) (Associate Professor, 1951-1953) (Assistant Professor, 1949-1951) (Instructor, 1947-1949). Here he was in charge of electronics research and graduate courses in field theory, network theory, and communication theory. He also directed government sponsored projects on radar, information processing, electronically phased array, and filters. Concurrently, he consulted extensively for industry, including Motorola, Bendix, Space Technology Laboratories, Cook Research, Glenn L. Martin, Armour Research and South West Research in such areas as propagation, guidance, error analysis, re-entry phenomena, magnetic fields, and high-frequency heating. Presently, he is Chief Scientist of the Fluid Physics Division of the Electro-Optical Systems, Inc., Pasadena, Calif., and is active in the areas of arc phenomena,

plasma acceleration, aerophysics, exploding materials, propagation and scattering of electromagnetic waves, plasma diagnostics, magnetogasdynamics and radiation.

Dr. Cohn is a Registered Professional Engineer, State of Illinois, and a member of Sigma Xi, Tau Beta Pi, Eta Kappa Nu, AAPT, AIEE, AMS, APS, ASEE, and PSJ.



Mauro DiDomenico, Jr. (S'58) was born in New York, N. Y., on January 12, 1937. He received the B.S. and M.S. degrees in electrical engineering from Stanford University, Stanford, Calif., in 1958 and 1959, respectively.

Since his graduation in 1959, he has held an appointment as Research Assistant in the Microwave Laboratory, Stanford University, and is currently working on his dissertation for the Ph.D. degree. His thesis research has been concerned with the microwave applications of ferroelectric materials and the possible use of semiconductors for mixing at optical frequencies.

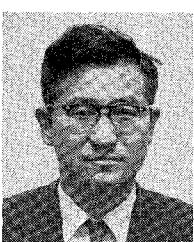
Mr. DiDomenico is a member of Tau Beta Pi, an associate member of Sigma Xi, and a member of the American Physical Society.



Roger F. Harrington (S'48-A'53-M'57) was born in Buffalo, N. Y., on December 24, 1925. He received the B.E.E. degree in 1948 and the M.E.E. degree in 1950, both from Syracuse University, Syracuse, N. Y., and the Ph.D. degree in 1952 from The Ohio State University, Columbus.

From 1945 to 1946 he served as an instructor at the Naval Radio Materiel School, Dearborn, Mich., and from 1948 to 1950, he was employed as an Instructor and Research Assistant at Syracuse University. While studying at The Ohio State University, he served as a Research Fellow in the Antenna Laboratory. Since 1952 he has been on the faculty of Syracuse University, currently as Professor of Electrical Engineering.

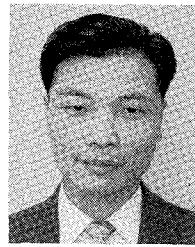
Dr. Harrington is a member of Tau Beta Pi, Sigma Xi, and the American Association of University Professors.



Syuiti Hayashi (A'55) was born in Ina, Nagano Prefecture, Japan, on June 11, 1916. He received the "Kogakushi" degree (equivalent to the B.S. or M.S. degrees in the U. S.) from Tokyo Imperial University in 1941 and the Ph.D. degree from Tokyo University in 1957.

From 1941 to 1955 he was employed by Tokyo Shibaura Electric Company, Kawasaki, near Tokyo, as a research staff member in microwave electronics. From 1955 to 1956 he was at the Research Division of Raytheon Company, as an exchange engineer between Raytheon and Tokyo Shibaura Electric Company and worked in the field of microwave ferrite. He is now a Deputy Manager of the Electronics Department of Central Research Laboratory, Tokyo Shibaura Electric Company.

Dr. Hayasi is a member of IEE, and the Institute of Electrical Communication Engineers in Japan.



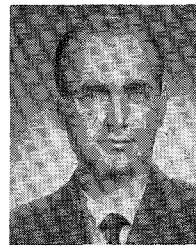
Teruo Kurokawa was born in Kawasaki, near Tokyo, Japan, on July 17, 1933. He graduated from Kawasaki Technical High School in 1952.

Since his graduation he has been employed by the Tokyo Shibaura Electric Company as a Technical Assistant in the Microwave Electronics Department of the Matsuda Research Laboratory. He is now working in the field of diode parametric amplifiers at the Central Research Laboratory there.

Mr. Kurokawa is a member of the Institute of Electrical Communication Engineers in Japan.

For the next two years, he was Assistant Professor of Electrical Engineering at Stanford University and Research Associate at the Microwave Laboratory. He taught a graduate course in network synthesis, and did research on the development of a high-power traveling-wave tube. He was granted a leave of absence from Stanford to become a visiting Assistant Professor at the University of Illinois, Urbana, during 1956-1957. There he worked on the generation of millimeter and submillimeter wavelengths. He has resumed his position at Stanford and is continuing his research into the generation of microwave energy. He is presently an Associate Professor of Electrical Engineering.

Dr. Pantell is a member of Sigma Xi.



Darko Kajfez was born in Delnice, Yugoslavia, on July 8, 1928. He received the Electrotechnical Engineer degree from the Faculty for Electrical Engineering in Ljubljana, in 1953.

In 1950 he joined the Institute for Telecommunications, IEV-Ljubljana, where he worked in the laboratory of microwave relay systems, especially on antennas, transmitters and filters. In 1958 he was working at the factory "Rudi Čajavec" in Banja Luka, where he occupied himself with microwave antennas. In 1961 he returned to the development department of the former IEV, now within the Institute for Automation in Ljubljana. He is presently Assistant Director in the Research and Development Department for electronic and wireless apparatus.



Tove Larsen was born in Copenhagen, Denmark, on April 23, 1930. She received the M.S.E.E. degree from the Technical University of Denmark, Copenhagen, in 1955.

From 1955 to 1958 she was with the Microwave Laboratory of the Danish Academy of Technical Sciences, Copenhagen, working on microwave equipment and propagation measurements. Since 1958 she has been with the Laboratory of Electromagnetic Theory at the Technical University of Denmark, Copenhagen, where she has investigated ground wire systems for low frequency antennas and is now doing theoretical work on propagation over mixed land and sea areas.

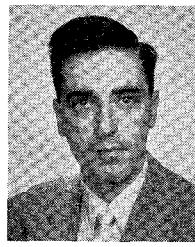
Mrs. Larsen is a member of the Institution of Danish Civil Engineers.



Edward T. Kornhauser (SM'55) was born in Louisville, Ky., on June 30, 1925. He received the B.E.E. degree from Cornell University, Ithaca, N. Y., in 1945 and the M.S. and Ph.D. degrees, both in applied physics, from Harvard University, Cambridge, Mass., in 1947 and 1949, respectively.

From 1948 to 1949 he served as Research Assistant in applied physics at Harvard, where he subsequently became Instructor of Applied Physics until 1951. He then became affiliated with Brown University, Providence, R. I., as Assistant Professor of Physics from 1951 to 1955 and since 1956, as Associate Professor of Engineering. From 1959 to 1960 he was a visiting lecturer and NATO Fellow at the University of Bristol, England, where he did work in solid-state physics.

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



Richard H. Pantell (S'54-A'55-M'60) was born in New York, N. Y., on December 25, 1927. He received the B.S. and M.S. degrees from Massachusetts Institute of Technology, Cambridge, in 1950.

His studies at M.I.T. were performed within the electrical engineering cooperative course, with four semesters spent at the General Electric Company test program. During the 1950-1951 academic year, he taught electrical engineering at the Polytechnic Institute of Brooklyn, N. Y. From 1951 to 1954, he was a Research Assistant at the Stanford Electronics Research Laboratory, Stanford, Calif., investigating new techniques for network synthesis. In 1954 he received the Ph.D. degree in electrical engineering from Stanford University.



C. N. Patel (S'59-M'62) was born in Baramati, (Bombay State), India on July 2, 1938. He received the B.E. degree in telecommunications from the Poona University, Poona, India, in 1958. He received the M.S. and Ph.D. degrees in electrical engineering from Stanford University, Calif., in 1959 and 1961, respectively.

Since June, 1961, he has been associated with the Bell Telephone Laboratories, Murray Hill, N. J., where he is presently concerned with gaseous optical masers.

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



Robert Plonsey (A'47-S'54-M'56-SM'60) was born in New York, N. Y. on July 17, 1924. He received the B.E.E. degree from Cooper Union, N. Y., in 1943, the M.E.E. degree from New York University, N. Y., in 1948, and the Ph.D. degree from the University of California, Berkeley, in 1956.

From 1943 to 1944 he worked as Junior Radio Engineer for Hazeltine Electronics Corporation, Little Neck, L. I., N. Y. After receiving his degree from New York University, he was a staff member at Polytechnic Research and Development, Brooklyn, N. Y. from 1948 to 1949. In 1953 he was appointed Research Assistant at the Annante Laboratory, University of California, Berkeley. From 1955 to 1957 he served on the faculty of the University of California as an Acting Assistant Professor in Electrical Engineering. Since 1957 he has been at the Case Institute of Technology, Cleveland, Ohio, where he is Associate Professor of Electrical Engineering. His work has been in the field of electromagnetic theory.

Dr. Plonsey is a member of Sigma Xi.



Theodore V. Seling (SM'59) was born in Lansing, Mich., on March 27, 1928. He received the B.S. degree in electrical engineering in 1949 from Michigan State University, East Lansing, and the M.S.E. degree in instrumentation engineering from the University of Michigan, Ann Arbor, in 1960.

After graduation he spent two years in the U. S. Army Signal Corps making ionospheric measurements. Upon leaving the service, he joined AC Spark Plug Division of General Motors at Flint, Mich., where he engaged in radar development work and later headed a radiometer development group. He spent two years at the AC Spark Plug Division's Milwaukee plant where he headed the Electronics Development Group of the Advanced Concepts Research and Development Department. Since early 1961, he has been with the Defense Research Laboratories of General Motors Corporation where he heads the Microwave Systems Group in the Land Operations Department, located at Santa Barbara, Calif.



Chia Chun Wang

(SM'58) was born in Nanking, China, on November 21, 1924. He received the B.S.E.E. degree from Chiao Tung University, Shanghai, China, and the M.S. degree from Brown University, Providence, R. I., in 1960.

From 1948 to 1956, he was engaged in railway signals and telecommunications development work in Taiwan Railway Administration, Taiwan, China. From 1956 to 1958, he worked on slow-wave propagation as a Research Assistant at Brown University. From 1958 to 1960, he was a Research Engineer at Radiation Inc., Melbourne, Fla., where he was working on VHF and UHF telemetry receivers, and transmitters, and Doppler analysis.

Since 1960, he has been employed by Jet Propulsion Laboratory, California Institute of Technology, Pasadena, Calif., where he is working on space communication in the Communications Systems Research Section.

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Henry Zucker (M'58) was born in Poland on November 25, 1922. He received a Diplom-Ingenieur degree in communication engineering from the Technische Hochschule, Munich, Germany, in 1950, the M.S. degree in 1954

and the Ph.D. degree in 1959 in electrical engineering both from Illinois Institute of Technology, Chicago.

From 1951-1952 he was employed by Radio Craftsmen, from 1952-1953 by the Admiral Corporation and from 1953-1956 by the Raytheon Manufacturing Company, all in Chicago. During this time he was concerned with the design and development of black and white and color TV receiver components and circuits. He joined Armour Research Foundation, Chicago, in 1956 where he has been engaged in the development of UHF and microwave components, antenna analysis and also in electromagnetic wave propagation in nonuniform and time varying dielectric media. From 1959 to 1961 he was also Assistant Professor at Illinois Institute of Technology.

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