

Contributors



Seymour B. Cohn (S'41 - A'44 - M'46 - SM'51 - F'59) was born in Stamford, Conn., on October 21, 1920. He received the B.E. degree in electrical engineering from Yale University, New Haven, Conn., in 1942, the M.S. degree in communication engineering in 1946, and the Ph.D. degree in engineering sciences and applied physics in 1948, both from Harvard University, Cambridge, Mass.

From 1942 to 1945 he was employed as a Special Research Associate by the Radio Research Laboratory of Harvard University, and also represented that laboratory as a Technical Observer with the U. S. Air Force. From 1948 to 1953 he was with Sperry Gyroscope Company, Great Neck, N. Y., where he held the position of Research Engineer in the Microwave Instruments and Components Department. From 1953 to 1960, he was with the Stanford Research Institute, Menlo Park, Calif., as Head of the Microwave Group and from 1957 as Manager of the Electromagnetics Laboratory. In 1960 he joined Rantec Division, Emerson Electric Company, Calabasas, Calif., as Vice President and Technical Director. Since October, 1967, he has been an independent Consultant to Rantec and other clients.

Dr. Cohn is a member of Tau Beta Pi and Sigma Xi. He is a member and ex-chairman of the G-MTT Administrative Committee, and was the recipient of the G-MTT 1964 Microwave Prize. He is also an associate editor of the *Microwave Journal*.



Réal R. J. Gagné (S'55 - A'56 - M'63) was born in Trois-Rivières, P. Q., Canada, on March 26, 1932. He received the B.Sc. degree in electrical engineering from the Laval University, P. Q., Canada, in 1956, and the Ph.D. degree in microwave engineering from University College London, London, England, in 1963.

From 1956 to 1959 he was an electronics engineer, and from 1963 to April 1965 he worked on microwaves with the Defence Research Board, Ontario, Canada. Since May, 1965, he has been an Assistant Professor in the Department of Electrical Engineering, Laval University.



William H. Harrison (A'52 - M'57) was born in Grove City, Pa., on August 22, 1924. He received the A.A. degree in 1956, from Valley College, Van Nuys, Calif., with additional studies at Arizona State University, Tempe, Ariz.

From 1947 to 1952 he was Chief Engineer of Radio Station KTYL in Mesa, Ariz. From 1952 to 1953 he was a Senior Laboratory Technician at Microwave Engineering Company, Hollywood, Calif. From 1953 to 1956 he was an Engineering Assistant at Stanford Research Institute, Hollywood, where he performed research and development on aircraft and missile antenna systems. From 1956 to 1967 he was Staff Engineer and Manager of the RF Devices Group at Rantec Division, Emerson Electric Company, Calabasas, Calif. His group was responsible for the design and development of RF multiplexers and various other filter devices. He is currently President of Wavecom, Inc., Chatsworth, Calif.



William E. Hord was born in Leola, S. D., on October 17, 1938. He received the B.S. degree in electrical engineering from the Missouri School of Mines and Metallurgy, Rolla, in 1959. He received the M.S. and Ph.D. degrees in electrical engineering from the University of Missouri at Rolla, in 1963 and 1966, respectively.

From 1959 to 1960 he worked at the Sperry Gyroscope Co. on the development of high-power klystrons. From 1960 to 1966 he was a member of the faculty in the Department of Electrical Engineering, University of Missouri at Rolla. In 1966 he joined the Emerson Electric Company, St. Louis, Mo., as a Senior Engineering Specialist and has since been engaged in research and development of microwave components. He is also a part-time Assistant Professor at the Graduate Engineering Center, University of Missouri at Rolla, teaching courses in electromagnetic theory.

Dr. Hord is a member of Eta Kappa Nu and Tau Beta Pi.



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

In 1957 he became an Assistant Professor at the University of Tokyo. For the academic year 1960-1961 he was on leave of absence from the University to Bell Telephone Laboratories, Inc., Murray Hill, N. J. He returned to Bell Labs. in 1963 where he currently supervises a group responsible for the study of functional devices and circuits, utilizing bulk semiconductors. He is also author of the book *An Introduction to the Theory of Microwave Circuits* (in Japanese).

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



Raj Mittra (S'54 - M'57) was born in Banras, India, on July 1, 1932. He received the B.Sc. degree in physics and mathematics from the University of Agra, Agra, India, in 1950, the M.S. degree from the Institute of Radio-

physics and Electronics, University of Calcutta, Calcutta, India, in 1952, and the Ph.D. degree in electrical engineering from the University of Toronto, Ontario, Canada, in 1957.

From 1956 to 1957 he taught at Pennsylvania State University, University Park, where he also held a part-time research position at the Ionosphere Research Laboratory. Since 1957 he has been with the Department of Electrical Engineering and the Antenna Laboratory, University of Illinois, Urbana, where he is now a Professor. During the academic year 1965-1966 he was a Guggenheim Fellow at the Engineering Sciences Department, University of Oxford, Oxford, England.

Dr. Mittra is a member of Sigma Xi and Commission VI of URSI.



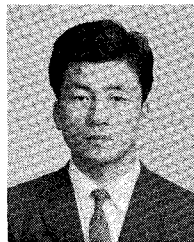
Fred J. Rosenbaum (S'57 - M'63) was born in Chicago, Ill., on February 15, 1937. He received the B.S., M.S., and Ph.D. degrees in



electrical engineering from the University of Illinois, Urbana, in 1959, 1960, and 1963, respectively.

While working toward the Ph.D. degree he was a graduate assistant at the university carrying out research on ferrites and Cerenkov radiation. In 1963 he joined the Research Division of McDonnell Aircraft Corp., St. Louis, Mo., where he worked on masers and dielectric resonators. In 1965 he became a member of the faculty of Washington University, St. Louis, Mo., where he is now an Associate Professor of electrical engineering. He also acts as a Consultant to Emerson Electric Company, St. Louis.

Dr. Rosenbaum is a member of Eta Kappa Nu, Sigma Tau, and Sigma Xi.



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.

From 1956 to 1964 he was a Member of the Research Staff on millimeter-wave engineering at the Electrotechnical Laboratory, Tokyo, Japan. While on leave from 1961 to 1963 and from 1964 to 1966 he studied solid-state devices in the millimeter-wave region at the Electro-Physics Laboratory, University of Illinois. From 1966 to 1967 he was with the Antenna Laboratory at the same university. Since September 1967 he has been an Associate Professor at the University of Electro-Communications. His research work since 1956 has been on microstrip transmission lines, hybrid modes of Goubau lines, wave propagation in a gaseous plasma, 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.