

# Contributors



**Richard H. T. Bates** (M'60) was born in Sheffield, England, on July 8, 1929. He received the B.Sc. (Eng.) degree from University College, London University, London, in 1952.

He has done work in antennas, microwaves and radar, and communication systems. In England he was with Vickers-Armstrongs Ltd., Weybridge, from 1952 to 1955 and Decca Radar Ltd., Tolworth, from 1955 to 1957. In Canada he worked for Canadian Westinghouse Ltd., Hamilton, Ont., from 1957 to 1960 and in the U.S.A. he was with National Co., Malden, Mass., 1960-1962, MITRE Corp., Bedford, Mass., 1962-1965, and Sperry Rand Research Center, Sudbury, Mass., 1965-1966. In 1967 he joined the Engineering School of the University of Canterbury, Christchurch, New Zealand, where he is now Reader in Electrical Engineering.

Mr. Bates is an associate member of the IEE (London).



**Sven I. Hagelin** (M'66) was born in Hede-mora, Sweden, on October 10, 1937. He received the Civilingenjör degree in electrical engineering from the Royal Institute of Technology, Stockholm, Sweden, in 1962.

Since 1961 he has been employed by The Research Institute of Swedish National Defense (FOA), Stockholm, where he has been working with microwave ferrites and non-reciprocal components.

Mr. Hagelin is a member of Svenska Teknolog Föreningen.

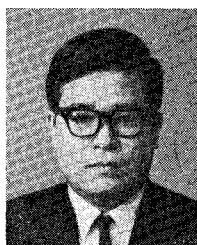


**Tatsuo Itoh** (S'67) was born in Tokyo, Japan, on May 5, 1940. He received the B.S. and M.S. degrees in electrical engineering from Yokohama National University in 1964 and 1966, respectively. He is currently working toward a Ph.D. degree

in electrical engineering at the University of Illinois, Urbana.

Before coming to the U. S. in September, 1966, he held a teaching position at Tama-gawa University, Tokyo. During the past two years, he has been a Research Assistant at the Antenna Laboratory of the University of Illinois, Urbana.

Mr. Itoh is a member of the Institute of Electronics and Communication Engineers of Japan.



**Yoshio Machi** was born in Kameyama, Mie, Japan, in 1940. He received the B.S. and M.S. degrees in electronics from Tokyo Electrical Engineering College (Tokyo Denki Dai-gaku), Tokyo, Japan, in 1963, and 1966, re-

spectively. He is presently a candidate for the Ph.D. degree at that college.

He joined the electronics section of the Tokyo Electrical Engineering College in 1963. He has been engaged in basic and applied research in the field of the interaction phenomena on electromagnetic waves and solid-state materials, and now extending his investigation into the field of nonlinear optics, high sensitive detection of optical signal and liquid crystals. He is now a Lecturer in the Department of Electronics.

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**Raj Mittra** (S'54-M'57-SM'69) 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, in 1950, the M.S. degree from the Institute of Radiophysics and

Electronics, University of Calcutta, Calcutta, in 1952, and the Ph.D. degree in electrical engineering from the University of Toronto, Toronto, 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. In September 1968 he was appointed as Associate Member of the Center for Advanced Study of the Graduate College of the University of Illinois. During the academic year 1965-1966 he was a Guggenheim Fellow at the Department of Engineering Sciences, University of Oxford, Oxford, England.

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



**Kurt R. Richter** (M'68) was born in Vienna, Austria, on October 16, 1933. He received the Dipl.Ing. and doctor's degree in electrical engineering from the Technische Hochschule, Vienna, in 1958 and 1961, respec-tively.

Since 1960, he has been an Assistant Professor at the Technische Hochschule, Vienna, with primary interest in microwave theory and measurements applied to semiconductor research.

Dr. Richter is a member of the Austrian Society of Electrical Engineers and the German Society of Electrical Engineers.



**Glenn F. VanBlaricum, Jr.** (S'65-M'69) was born in Olney, Ill., on May 18, 1943. He received the B.S., M.S., and Ph.D. degrees in electrical engineering in 1965, 1966, and 1968, respectively, from the University of Illinois, Urbana.

During the 1965-66 academic year he held a Hughes Master's Fellowship and during the 1966-67 and 1967-68 academic years he held a Hughes Staff Doctoral Fellowship and a Research Assistantship in the Antenna Laboratory at the University of Illinois. From 1965 to 1969, he was associated with Hughes Aircraft Company, Fullerton, Calif. where he was a Staff Engineer in the Electromagnetics Laboratory. He is now a Member of the Technical Staff at General Research Corporation, Santa Barbara, Calif.

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