

# Contributors



**James Lamar Allen** (S'57-M'62-SM'76-F'77) was born in Graceville, FL, on September 25, 1936. He received the B.E.E., M.S.E.E., and Ph.D. degrees in electrical engineering, all from the Georgia Institute of Technology, Atlanta, in 1959, 1961, and 1966, respectively.

Since 1959 he has worked in a number of microwave areas, including radar antennas, ferrimagnetic materials and devices, filter design and synthesis, time-domain electromagnetics, amplifier and oscillator design, and electromagnetic shielding. His employment history includes positions with the Georgia Institute of Technology, Sperry Microwave Electronics, Clearwater, FL, and Colorado State University, Fort Collins. Since September 1972 he has been with the University of South Florida, Tampa, where he is currently Professor of Electrical and Electronic Systems. His current research areas include coupled-line devices, time-domain electromagnetics, and nonlinear electromagnetics.

Dr. Allen is a member of Tau Beta Pi, Sigma Xi, and ISHM. He is a member of the MTT-S Administrative Committee, and former Editor of the IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES.



**John A. D'Andrea** was born in Colorado Springs, CO, on December 26, 1946. He received the B.S. degree in psychology from the University of Southern Colorado, Boulder, in 1969. He continued his graduate studies at the University of Utah, Salt Lake City, completing the M.S. and Ph.D. degrees in physiological psychology, in 1972 and 1976, respectively.

He continued his interest in nonionizing radiation bioeffects at the Departments of Electrical Engineering, Bioengineering, and Psychology Departments in the University of Utah, as a Research Associate and then as Assistant Research Professor.

Dr. D'Andrea is a member of Sigma Xi.

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**B. N. Das**, for a photograph and biography please see page 86 of the January 1979 issue of this TRANSACTIONS.

**Giuseppe Caruso** was born in Palermo, Italy, in 1948. He received the Ph.D. degree in electronic engineering from the University of Palermo, Palermo, in 1973.

Since 1975 he has been working at the Istituto di Elettrotecnica ed Elettronica of the University of Palermo as a Researcher. At present he is Associate Professor at the University of Palermo teaching a course on Electronics. His current research interest is in noise characterization and measurements of solid-state microwave components.



**Carl H. Durney** (S'60-M'64), for a photograph and biography please see page 764 of the August 1979 issue of this TRANSACTIONS.

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**Indira Chatterjee** (S'78) was born in Bangalore, India, on April 2, 1954. She received the B.Sc. Honors and M.Sc. degrees in physics from Bangalore University, Bangalore, India, in 1973 and 1975, respectively, and the M.S. degree in Physics from Case Western Reserve University, Cleveland, OH, in 1977. Since 1977 she has been a graduate student in the Department of Electrical Engineering, University of Utah, Salt Lake City, where she is working towards the Ph.D. degree with emphasis on the interaction of electromagnetic radiation with biological systems.



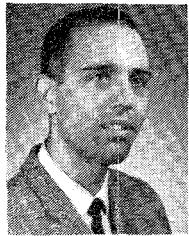
**Om P. Gandhi** (S'57-M'58-SM'65-F'78) was born in Multan, West Pakistan, on September 23, 1934. He received the B.Sc. (Honors) degree in Physics from Delhi University, Delhi, India, and Diploma in electrical communication engineering from Indian Institute of Science, Bangalore, India, in 1952 and 1955, respectively. Continuing his graduate studies at the University of Michigan, Ann Arbor, he obtained the M.S.E. and Sc.D. degrees in electrical engineering, in 1957 and 1960, respectively.

Subsequently, he worked at Philco Scientific Laboratory, Blue Bell, PA, on semiconductor plasmas. From 1962 to 1966, he worked at Central Electronics Engineering Research Institute, Pilani, India, first as Assistant Director, and then as Deputy Director in charge of the Microwave Devices group. Since 1967, he has been with the University of Utah, Salt Lake City, where he is a Professor of Electrical Engineering, and Research Professor of Bioengineering, with research interests in

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electromagnetic biological effects and biomedical applications of microwaves.

Dr. Gandhi is a member of Sigma Xi, Phi Kappa Phi, and Eta Kappa Nu.



**Mark J. Hagmann** (S'75-M'79) was born in Philadelphia, PA, on February 14, 1939. He received the B.S. degree in physics from Brigham Young University, Provo, UT, in 1960, and the M.Sci.Ed. and the Ph.D. degree in electrical engineering from the University of Utah, Salt Lake City, in 1966 and 1978, respectively. He did additional graduate studies in physics at Brigham Young University, Provo, UT, during 1965-1967.

He worked as a Physics and Mathematics Teacher during 1961-1964. During 1968-1975, he worked in the research and development of explosives for IRECO Chemicals, West Jordan, UT. Since 1978 he has been a Research Associate to the Departments of Electrical Engineering and Bioengineering at the University of Utah. His main research interests are electromagnetics and microwave biological effects.



**John L. Hobdell** (S'71-M'75) was born in London, England, on April 30, 1949. He received the B.Tech degree in electrical engineering and the Ph.D. degree, both from the University of Bradford, Yorkshire, England, in 1971 and 1975, respectively.

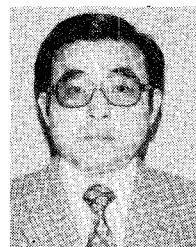
From 1974 to 1976 he worked as a Research Assistant in the Electronic Engineering Department at Chelsea College, London, working on lumped element devices in microstrip. Since 1976 he has been with the Marconi Space and Defense Systems Ltd., Stanmore, England. There he is primarily involved in the research and development of microwave FET amplifiers.



**Foong Chee Hong** was born in Kuala Lumpur, Malaysia, on February 27, 1950. He received the Diploma in electrical engineering (communications) from the Technical College, Kuala Lumpur, in 1970. In 1975 he was awarded a Government Scholarship for higher studies at the United Kingdom, and he completed the B.Sc. (Hon) degree at the Portsmouth University, England, in June 1977. He is also a part-time research scholar at the School of Applied Sciences, University Science Malaysia, Minden, Penang, Malaysia, and is working towards the M. App. Sc. degree in electronics science and technology.

From May 1970 to August 1975 he worked as a Technical Assistant (Radio) at the Transmitting Station, Ulu Kali, Malaysia. In August 1977 he joined the Telecommunications Department of the Federal Government of Malaysia as an Assistant Controller of Radio, and at present he holds this post at Alor Setar, Malaysia. His research activities include work on antennas, microwave techniques and instrumentation.

He is an associate member of the British Institutes of Management, Institution of Electrical Engineers (U.K.), Institution of Electronics and Radio Engineers (U.K.), and the Institution of Engineers (Malaysia).



**Masanori Kobayashi** (M'79) was born in Niigata, Japan, on June 17, 1947. He received the B.E. and M.E. degrees in electrical engineering from the University of Ibaraki, Ibaraki, Japan, in 1970 and 1972, respectively.

Since 1972, he has been an Assistant in the Department of Electrical Engineering, University of Ibaraki. He worked mainly in the field of microwave integrated circuits. At present, his main fields of interest are multicoupled microstrip lines and electrostatic fields in multianisotropic media.

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



**Abhai Mansingh** was born in Fatehpur (U.P.), India, on March 12, 1937. He received the B.Sc. and M.Sc. degrees in physics from the University of Allahabad, India, in the years 1957 and 1959, respectively, and the D. Phil. degree in the field of dielectrics from the same University in 1964.

From 1965 to 1967 he was a National Research Council of Canada PDF, and an Assistant Professor in Physics from 1967 to 1971, at the Queen's University, Kingston, Canada. Since 1972 he is working as Reader in Physics, at Delhi University, India. He has been NRC-CIDA (Canada) Research Associate during 1974-1977. His scientific activities have been devoted mainly to the studies of the electrical behavior (from dc to microwave region) of polar liquids, ferroelectrics, amorphous, and crystalline semiconductors.



**Max W. Medley, Jr.** (S'67-M'75-SM'78) received the B.S.E.E. degree from the University of Florida, Gainesville, in 1967.

From December 1967 through June 1975 he was with Electronic Communications, Inc., St. Petersburg, FL, where he was assigned to the Antenna Systems Group as a Principal Engineer. During this period he served as Project Engineer on several UHF and Microwave programs. He was also responsible for Research and Development projects for various Microwave Integrated Circuit components and techniques. He developed Mi-

rowave Computer-Aided Design Programs and microprocessor software as a Senior Development Engineer with C-RAN Corporation until June 1976, when he joined TRAK Microwave Corporation, Tampa, FL, as a Staff Consultant. He is presently Product Line Manager for MIC products, and as such is responsible for Research, Development, and Production for GaAs FET Amplifiers, active mixers, switches, filters, and attenuators.



strumentation.

Dr. Sannino is a member of Associazione Elettrotecnica ed Elettronica Italiana (AEI).



**Perambur S. Neelakantaswamy** was born in Nanjangud, India, on February 11, 1945. He received the B.E. degree in electronics and communications engineering from the University of Madras, India, in 1966, the M.E. degree with distinction in electrical communication engineering from the Indian Institute of Science, Bangalore, India, in 1968, and the Ph.D degree in electrical engineering from the Indian Institute of Technology, Madras, in September 1975.

From 1968 to 1970, he was a Lecturer at the Department of Aeronautical Engineering (Rockets and Missiles Group), Indian Institute of Science, Bangalore. From August 1970 to June 1978, he had been with the High Frequency Technology Section of the Electrical Engineering Department, Indian Institute of Technology, Madras, as a Lecturer. During the period June 1973-September 1974, he was on deputation for advanced research work at the Institute for High Frequency Techniques, Technical University, Aachen, Germany, under the German Academic Exchange Program (DAAD). He joined the Electronics Section of the School of Applied Sciences, University Science Malaysia, Minden, Penang, Malaysia, in June 1978, and is presently the Head (Program Chairman) of the Section. His research interests include work on antennas, radar cross section, radar clutter, microwave techniques, microwave applicators, microwave hazards, and microprocessor-based instrumentation (biomedical and industrial). He has over 45 technical publications.

**Peter I. Somlo** (SM'71), for a photograph and biography please see page 213 of the February 1979 issue of this TRANSACTIONS.



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**Ryuiti Terakado** was born in Tokyo, Japan, on January 30, 1930. He graduated from the Taga Technical College, Ibaraki, Japan, in 1950. He received the D.E. degree from the Tokyo Institute of Technology, Tokyo, Japan, in 1975.

In 1960 he joined the Department of Electrical Engineering, Ibaraki University, where he is now a Professor. His major research interests are two-dimensional fields and symmetry.

Dr. Terakado is a member of the Institute of Electrical Engineers, the Institute of Electronics Engineers, and the Society of Instrument and Control Engineers, all of Japan.

**V. M. Pandharipande**, for a photograph and biography please see page 87 of the January 1979 issue of this TRANSACTIONS.



**Anand Parkash** was born in Multan, West Pakistan, in 1944. He received the B.Sc. (honors) and M.Sc. degrees from the University of Delhi, India, in 1965 and 1968, respectively. In 1978 he joined the Department of Physics and Astrophysics, University of Delhi, for working towards Ph.D. degree in the field of dielectric and magnetic properties of ferrites at microwave frequencies, and in the development of techniques for these measurements.

Since 1968, he has been working as a Lecturer in Physics at Hans Raj College, University of Delhi, India.



special reference to their device applications.

**J. K. Vaid** was born in Punjab, India, on February 15, 1949. He received the B.Sc. (honors) and M.Sc. degrees in physics from the University of Delhi, India, in the years 1970 and 1972, respectively. He received the Ph.D. degree from the same University in 1977.

He has been working as a Lecturer in Physics since 1977, at Hindu College, Delhi University, India. Currently he is engaged in the investigation of the electrical properties of a variety of amorphous semiconductors and ferrites with a