# Contributors

**Victor J. Albanese** (SM'55) was born in New York, NY on February 2, 1927. He received the B.E.E. and M.E.E. degrees from the Polytechnic Institute of Brooklyn, NY, in 1947 and 1949, respectively. He has worked for the Microwave Research Institute (1947–1949), Airborne Instruments Labs (1949–1951), W. L. Maxson Corporation (1951–1955), the Bogart Manufacturing Corporation (1955–1963), and Paradynamics (1963–1964). During this period most of his professional efforts were devoted to the design and development of microwave components and subsystems, the design of airborne antennas, and of support and test equipment. Since 1964, he has been associated with the Grumman Aerospace Corporation of Bethpage, NY. He has successively held the positions of Group Leader for Microwave Devices, Assistant Section Head for RF Engineering and Staff Technical Specialist, serving as a Consultant to a number of company projects and advanced development programs. At present he is Head of the Antenna/Radome group. During his association with Grumman he has supervised the development or designed and developed a broad spectrum of RF components and subsystems for space and airborne applications for ECM, Radar, and Communications.

Mr. Albanese has authored a number of patents in the microwave field. He is a member of Tau Beta Pi, Eta Kappa Nu, and Sigma Xi.

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**Dan R. Bromaghim**, photograph and biography not available at the time of publication.

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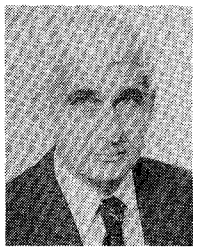

**Daniel C. Buck** (A'51–M'56–SM'74) was born on September 22, 1928, and received the A.B. degree in physics from Oberlin College, Oberlin, OH, in 1950, the M.S. degree in electrical engineering from Newark College of Engineering, Newark, NJ, in 1952, and the M.S. degree in physics from New York University, New York, NY, in 1954.

He was employed by the Physics Laboratory of Sylavania Electric Products, Inc., Bayside, NY, from 1952 to 1955. Then he moved to Elmira, NY, where he was employed as an Engineer developing microwave tubes. In 1966, he transferred to the Westinghouse Systems Development Division in Baltimore, MD, where he is now employed as an Advisory Engineer, with major concentration in microwave semiconductor and ferrimagnetic devices and subsystems.

Mr. Buck has numerous publications in the microwave device field and holds 26 U.S. patents.

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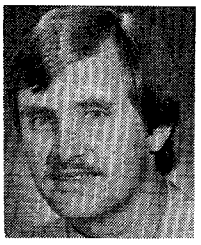

**Thomas P. Carlisle** was born in San Francisco, CA., on June 18, 1947. He received the B.S. and M.S. Degrees in Physics, both from the University of California, Los Angeles, in 1969 and 1971, respectively. Since 1969 he has been associated with the Electron Dynamics Division, Hughes Aircraft Company, Torrance, CA. He has worked in research and development of traveling-wave tubes with special emphasis in the areas of electron beams and high frequency coupled cavity TWT's. He is presently involved in the design and development of multipactors and multipactor switches. In his current capacity as Project Manager, he is responsible for the production of a high-duty *X*-band TWT and several multipactors.

**Richard M. Dickinson** (S'56–M'58) received the B.S. degree in electrical engineering from Auburn University, Auburn, AL, in 1958 and the M.S. degree in electrical engineering from the University of Texas, Austin, in 1962, respectively.

He is Project Manager for Microwave Power Transmission at the Jet Propulsion Laboratory, California Institute of Technology. During his 15 years at JPL he has been a Researcher in spacecraft antennas, pattern measurements, and supervisor of a spacecraft advanced transmitter development group. The last three years he has conducted experiments and research in microwave power transmission. He is currently leading a design team for a pilot-beam steered, retrodirective microwave power transmitting phased array for NASA technology verification.

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**Gérard E. Forterre** (A'63) was born in Nancy, France, on August 13, 1935. He received the Diplomed Engineer degree of "Ecole Nationale Supérieure des Télécommunications" in 1959.

Since this year, he has been with the Research Department of the society Lignes Telegraphiques & Telephoniques, primarily for studying application of ferrites to microwaves. After development in both passive and active microelectronic devices, he has been concerned with important work on wideband ferrite devices, concluded by various papers on this subject.

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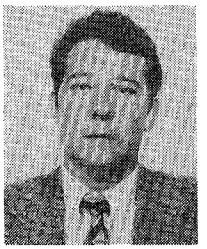

**Christian Fournet-Fayas** was born on August 22, 1942. He is the holder of a Diplomed Engineer degree.

He currently is working in the Microwaves Department of the Centre d'études et de Recherches de Toulouse. He is in charge of the research on high-power ferrite devices, on microwave industrial applications such as beef thawing, and the definition of new applicators.

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**Kenneth R. Goudey** received the B.S.E.E. and M.S.E.E. degrees in 1966 and 1968, respectively, both from San Jose State College, San Jose, CA.

He has been employed by Ford Aerospace and Communications Corporation, WDL Division, for the past nine years in the design and development of communications antennas. He has written computer programs for analysis of TEM lens antennas for space applications, analysis and synthesis of Cassegrainian antennas for ground applications, and analysis and synthesis of microwave components and feeds. As a Project Engineer, he has provided *C*- and *S*-band radiometric equipment for accurate gain measurement of several antennas built by Ford Aerospace and Communications Corporation. He was also instrumental in the design of Ford Aerospace and Communications Corporation's latest generation of radiometers and has performed extensive research into the errors involved in using radiometers. He has carried out a number of investigations in optimization of gain and noise temperature for ground antennas.

These investigations involve surface tolerances, geometric configuration and type of feed to be used to meet particular system requirements. He has also designed waveguide and coaxial microwave components such as filters, diplexers, and transitions to be used in feed systems; and has worked on the design of multimode tracking feeds, including corrugated feeds, step generated multimode feeds and multiflare-generated multimode feeds. As Program Manager on the LLHR Program, he was responsible for the design and delivery of a high-power monopulse tracking feed for the M.I.T. Haystack Radar. This feed was a multimode feed employing a multiflare horn for beam shaping. He developed a computer program for the synthesis of multiflare horns. Recently, he has designed and is currently developing a multimode prime focus feed and three foot reflector for NASA-Houston to be used for simulation of the Oribter antenna operation with spread spectrum signals. He also designed and built an array simulator in waveguide for the purpose of studying the properties of frequency selective surfaces to be used for implementation of multiple feeds in a single cassegrain reflector system. He is currently involved in the design and development of frequency reuse feed systems and has filed a patent disclosure for a high purity wideband polarizer design.

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**Donald Kerbs** was born in Hicksville, NY, on May 1, 1940. He received the B.S. degree in engineering science in 1976 from Long Island University, Greenvale, NY.

He has worked at Budd–Stanley (1961–1964), Belz Microwave (1964), and Grumman Aerospace (1965–1972), with his major efforts devoted to the design, development, and test of microwave components and airborne antennas. After several years of effort devoted to automated digital test systems at PRD Electronics (1972–1974), he returned to Grumman Aerospace, where he has since been involved in the design and development of antennas and other microwave components for EW aircraft. He is currently doing research on antennas for military space applications.

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**Morrell L. King** (A'55–M'60) was born in Middlesex, NJ, on April 24, 1930. He received the B.S.E.E. degree from Rutgers University, New Brunswick, NJ, in 1952.

He then joined Lavoie Labs, Inc., where he was engaged primarily in developing frequency measurement equipment. In 1956, he joined the Airtron Division of Litton Industries, at which he is presently engaged as a Senior Engineer in developing microwave components.

Mr. King is a member of the Eta Kappa Nu.

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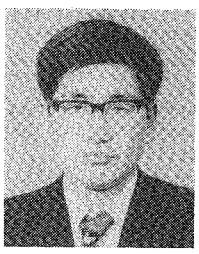

**Minoru Kuramoto** was born in Nagano, Japan, on January 30, 1942. He received the B.S. degree in electrical engineering from Yamanashi University, Kofu, Japan, in 1964.

In 1964 he joined the Electrical Communication Laboratory, Nippon Telegraph and Telephone Public Corporation, Tokyo, Japan. He has been engaged in research on the synchronization of phase shift key systems, domestic satellite communications systems, and the design of earth stations. He is currently a Staff Engineer in the Planning and Coordination Office, Yokosuka Electrical Communication Laboratory, N.T.T.

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

**Hans J. Mohr** (M'58) was born in Alturas, CA, on February 8, 1933. He received the B.S.E.E. degree in 1955 from the University of Nevada, Reno, and his M.S.E.E. degree in 1961 from Stanford University, Stanford, CA.

In 1955, he joined the General Electric Company and completed the Advance Engineering Program in 1958. From 1958 to 1965 he was engaged in the development of high-power traveling-wave tubes, multipactor devices, and passive components. In 1966, he joined Varian Associates where he has been engaged in the design and development of passive high-power microwave components including filters, waterloads, directional couplers, and ferrite devices.

Mr. Mohr is a member of Phi Kappa Phi, and Sigma Tau.

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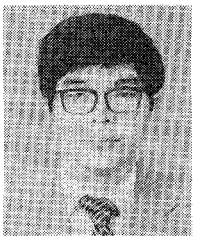

**Makoto Nakamura** was born in Miyazaki, Japan, on January 12, 1945. He received the B.S. degree in electrical engineering from Tokyo Metropolitan University, Tokyo, Japan, in 1968.

In 1968 he joined the Electrical Communication Laboratory, Nippon Telegraph and Telephone Public Corporation, Tokyo, Japan. He has been engaged in research on microwave and millimeter-wave circuits and components. He is currently a Staff Engineer in the Satellite Communication System Section, Integrated Transmission System Development Division, Yokosuka Electrical Communication Laboratory, N.T.T.

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

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**Koichi Ohwi** (M'62) was born in Kyoto, Japan, on December 27, 1937. He received the B.S.E.E. and M.S.E.E. degrees from Waseda University, Tokyo, Japan, in 1961 and 1963, respectively.

Since 1963 he has worked at the Department of Electrical Engineering of National Defense Academy of Japan, Yokosuka, Japan, and is presently a Lecturer. He is currently engaged in work on microwave devices.

Mr. Ohwi is a member of the IECE of Japan.

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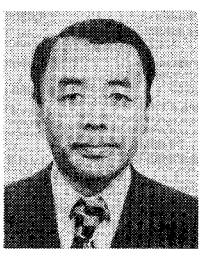

**Fumiaki Okada** (M'71) was born in Tochigi, Japan, on December 14, in 1927. He received the B.E., M.S., and Dr. Eng. degrees from Waseda University, Tokyo, in 1951, 1954, and 1957, respectively.

He worked for the Department of Electrical Engineering, National Defense Academy of Japan, Yokosuka, Japan, as a Lecturer and as an Associate Professor from 1957 to 1968. Since 1968 he has been a Professor in the same academy and is presently working on microwave solid-state devices and measurements, especially on microwave ferrite, and working on high-power microwave devices.

Dr. Okada is a member of the IMPI, and the IECE, the IEE, and the ITE of Japan.

**John P. Perry**, photograph and biography not available at the time of publication.

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**Alain C. Priou** (M'73) was born in 1944. He received the Doctor of Electronics degree in microwave option.

He is currently an Engineer with the Département d'Etude et de Recherches en Micro Ondes, Complexe Aérospatial, Centre d'Etudes et de Recherches de Toulouse, Toulouse, France, where he is the Chief of the Ferrite and Magnetism section. Since 1969 he has been studying matters relating to magnetostatic delay lines, propagation in anisotropic media, ferrite broadbanding techniques, and measurements on partially magnetized ferrites. Since 1974 he has been the Associate Head of the Microwave Department.

Dr. Priou was the General Secretary for the First International Seminar on Microwave Ferrite Devices which was held in Toulouse, France, in March 1972.

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**Velimir M. Ristic** (S'67–M'69) was born in Skoplje, Yugoslavia, on October 10, 1936. He received the Dipl. Ing. and Mag. N. degrees from the University of Belgrade, Belgrade, Yugoslavia, both in electrical engineering, in 1960 and 1964, respectively, and the M.Sc. and Ph.D. degrees from Stanford University, Stanford, CA in 1966 and 1969, respectively.

He was Research Engineer at the Institute for Nuclear Sciences and Lecturer at the Department of Electrical Engineering, University of Belgrade, and a Staff Member at the Institute for Plasma Research, Stanford University from 1966 to 1968, where he was working on beam/plasma amplifiers. He was Fullbright Scholar in 1965 and 1966. He was engaged in research in a wide variety of topics in the field of electrical engineering including nuclear proton magnetometers, pulse circuits, low-noise amplifiers, electromagnetic slow-wave structures, plasmas, frequency synthesizers, and microwave couplers. His latest interests include spark gap switches and microwave acoustics. He is the author of over 30 papers and a book. He is a member of Standards Advisory and Review Committee of the Electrical and Electronic Manufacturers Association of Canada. He is presently Associate Professor in the Department of Electrical Engineering at the University of Toronto, Toronto, Ont., Canada.

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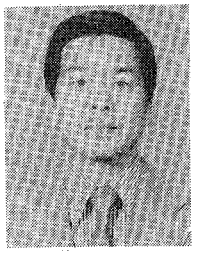

**Takaya Saito** was born in Shizuoka, Japan, on September 22, 1942. In 1961 he joined the Electrical Communication Laboratory, Nippon Telegraph and Telephone Public Corporation, Tokyo, Japan. He has been engaged in the development of high-power transmitters. He is currently an Engineer in the Satellite Communication System Section, Integrated Transmission System Development Division, Yokosuka Electrical Laboratory, N.T.T.

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

**Attilio F. Sciambi, Jr.**, received the Bachelor's and Master's degrees from Drexel University, Philadelphia, PA.

He has over twenty years's experience in the field of microwave components and antenna systems. He has done extensive work on high-efficiency high-power autotracking antennas and has recently been the technical director for a high-performance frequency spectrum reuse antenna to be used for TT&C. He has also been engaged in the development of an extremely high-power (800-kW CW–10 GHz) monopulse tracking feed system to be used in a pulse compression radar. At the present time, he is on special assignment in Rome, Italy, as a Technical Manager for the Intelsat 5 K-band Antenna Subsystem. Prior to joining Philco-Ford (now known as Ford Aerospace and Communications Corporation), Mr. Sciambi was a Principal Engineer at Radiation, Inc. where he was responsible for the design and development of the AN/FPQ-6, AN/FPS-13, AN/TSC-54, the ALCOR and the ALTAIR tracking radar. These antenna systems were high-efficiency low-noise antennas for long-range precision radar and communications use. The ALTAIR system is especially noteworthy in that it is a 150-ft diameter paraboloidal, dual-frequency, 40-MW, monopulse system. His past experience with RCA in Moorestown, NJ included the design and development of the high-power BMEWS and TRADEX tracking radars. He was also responsible for the design and development of antenna and microwave components including ground mapping systems, ECM systems, sequential lobing antennas, high-gain satellite antennas, precision scanning devices, broad-band phase shifters, polarizing junctions, and hybrid power dividers. He has filed eleven patent disclosures. He is the holder of three patents.

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**Thomas P. Sorensen** was born in Cork City, Ireland, on April 23, 1945. He received the B.E. and M. Eng. Sc. degrees from the University College, Cork, Ireland, in 1967 and 1968, respectively, and the M.A.Sc. degree in electrical engineering in 1973 from the University of Toronto, Toronto, Ont., Canada, where he is presently working towards his Ph.D. degree.

From 1968 to 1970 he was Antenna Research Engineer for Marconi Company, Great Baddow, Essex, England, working on high-efficiency feeds for reflector antennas, as well as on some mode coupler designs.

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**Kiyo Tomiyasu** (S'41–A'42–M'49–SM'52–F'62), for a photograph and biography see page 321 of this issue.

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**Robert D. Wengenroth** (S'48–A'52–M'52) was born in Brooklyn, NY, on August 3, 1926. He received the B.E.E. degree from Rensselaer Polytechnic Institute, Troy, NY, in 1951.

He joined General Electric in 1960 after 9 years with Wheeler Laboratories. He has been engaged in microwave research and RF components and subsystem development.

He received the IEEE Student Award at RPI in 1951, was organizer, Vice Chairman, and Chairman of the Long Island Chapter of MTT, Editor of the *Pulse* (Long Island Section), was Secretary and an Administrative Committee member of the Professional Group on MTT. He has held several offices in the Syracuse Section of IEEE including Vice Chairman and Chairman (1972–1973) and currently edits the Section paper, "*The Scanner*.