Contributors

Donald M. Bolle (S'56–M'57–SM'66) was born in Amsterdam, The Netherlands, on March 30, 1933. He received the B.Sc. degree with honors in electrical engineering from Kings College, Durham University, Durham, England, in 1954, and the Ph.D. degree in electrical engineering from Purdue University, West Lafayette, Ind., in 1961.

From 1954 to 1955 he was a Research Engineer with the Electrical Musical Industries, Middlesex, England. He taught at Purdue University from 1956 to 1962, first as an Instructor, then as an Assistant Professor in Electrical Engineering. He spent the academic year 1962–1963 in the Department of Applied Mathematics and Theoretical Physics, Cambridge University, England, as a National Science Foundation Postdoctoral Fellow. In 1963 he joined Brown University, Providence, R. I., where he is currently Professor of Engineering. He was a Visiting Professor at the Institute for High Frequency Techniques of the Technical University of Braunschweig, Germany, 1967, and at the University of Colorado, Boulder, in 1972. His research interests lie in electromagnetic propagation, radiation, and scattering.

Dr. Bolle is a member of Eta Kappa Nu, Tau Beta Pi, Sigma Xi, The American Society for Engineering Education, and the American Association of University Professors.

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Morris E. Brodwin (A'49–M'55–SM'68), for a photograph and biography please see page 717 of the August 1975 issue of this TRANSACTIONS.

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David C. Chang (S'65–M'67), for a photograph and biography please see page 181 of the January 1975 issue of this TRANSACTIONS.

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Shimon Coen (S'75) was born in Sofia, Bulgaria, on June 10, 1946. He received the B.A.Sc. degree in electrical engineering from the University of Waterloo, Waterloo, Ont., Canada in 1975.

From 1964 to 1967 he was involved in experimental work on microwave systems. He joined the microwave and antenna group at A. E. L. Israel in 1967 and participated in the development of solid-state monopulse receiver for navigational purposes. Three years later he joined the Special Services Division of the Canadian Marconi Company in Montreal, as a Senior Electronic Technician. He spent three terms as a Cooperative Student at Raytheon Canada and participated in the design and measurements on the ground station for the Canadian Satellite Communication System. Currently he is working towards the Ph.D. at the University of Waterloo on radiation from microstrips.

Pietro de Santis (M'65) was born in Rome, Italy, on November 24, 1937. He received the Ph.D. degree in electrical engineering with highest honors from the University of Rome, Rome, Italy, in 1962 and the M.S. degree in electrophysics from the Polytechnic Institute of Brooklyn, New York, N.Y., in 1965. In 1971 he received the Libera Docenza in electromagnetic fields and circuits.

In 1962 he joined the Research Department of Selenia S.p.A., Rome, where he was engaged in research work on microwave plasmas and ferrites. Since 1969 he has been Professore Incaricato of Microwaves at the Univeristy of Naples, Naples, Italy. He is the Italian representative in the management committee of the European Microwave Conference.

Dr. de Santis is a member of the American Physical Society, Associazione Elettrotecnica Italiana, and a corresponding member of the S-MAG) Technical Committee on High Frequency Microwaves. (This author contributed to the paper "Annotated literature survey of microwave ferrite control components and materials for 1968–1974," this issue, pp. 908–918.)

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Y. E. Elmoazzen (S'72–M'74) was born in Alexandria, Egypt, on December 3, 1944. He received the B.Sc. and M.Sc. degrees in electrical engineering from Alexandria University, Alexandria, Egypt, in 1967 and 1970, respectively. He received the Ph.D. degree in electrical engineering from the University of Manitoba, Winnipeg, Man., Canada, in 1974.

From 1967 to 1970 he was a Teaching Assistant in the Faculty of Engineering, Alexandria University. From 1970 to 1974 he was a Research Assistant at the Antenna and Microwave Laboratories, University of Manitoba. He is currently with the Department of Telecommunication, Northern Alberta Institute of Technology, Edmonton, Alta., Canada. His research interests are in the areas of antennas, microwave devices, and numerical techniques.

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Graham M. L. Gladwell was born in Sevenoaks, England, on February 21, 1934. He received the B.Sc. degree in mathematics in 1954, and the Ph.D. degree in 1957, both from the University of London, London, England. In 1969 he received the D.Sc. degree from the University of London for work in the theory of vibration.

From 1956 to 1960 he was a Lecturer in Mathematics at University College, London. After two years secondment at the University of the West Indies and a visiting lectureship at the Massachussetts Institute of Technology, he became Lecturer in the Department of Aeronautics and Astronautics, University of Southampton, England. In 1964 he transferred to the Institute of Sound and Vibration Research and left in 1969 to become Professor of Civil Engineering at the University of Waterloo, Waterloo, Ont., Canada. His research

interests lie in the solution of integral equations, elasticity theory, and numerical analysis.

Dr. Gladwell is a member of the American Academy of Mechanics and a Fellow of the Institute of Mathematics and Its Applications.

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Edward F. Kuester (S'73), for a photograph and biography please see page 182 of the January 1975 issue of this TRANSACTIONS.

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Naoyuki Ogasawara (M'60) was born in Kochi prefecture, Japan, on June 25, 1922. 1922. He graduated in 1944 from the University of Tokyo, Tokyo, Japan, and received the Ph.D. degree in engineering from the same university.

In 1950 he joined the Tokyo Metropolitan University, Tokyo, Japan, and is currently Professor in the Department of Electrical Engineering. For the past two decades he has been involved in researches on microwave ferrites with emphasis on material assessments and device designs.

Prof. Ogasawara is a member of the Institute of Electronics and Communication Engineers of Japan. (This author contributed to the paper "Annotated literature survey of microwave ferrite control components and materials for 1968–1974," this issue, pp. 908–918.)

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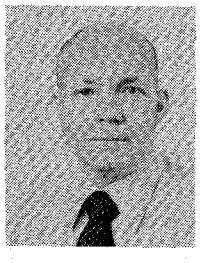

William F. Pedler (S'57–M'75) was born in Salt Lake City, Utah, on January 25, 1936. He received the B.S.E.E. degree from the University of Utah, Salt Lake City, in 1959, and the M.S. and Ph.D. degrees in engineering from the University of California at Los Angeles, Los Angeles, in 1967 and 1974, respectively.

In 1959 he received a commission in the United States Navy where he worked in the design of communications equipment. From 1962 to 1964 he was a Lead Engineer at the Space and Information Systems Division of North-American Aviation. During this period he was involved in the design of rocket-propulsion control systems. Since 1964 he has been with the Ground Systems Group, Electromagnetics Laboratory, Hughes Aircraft Company, Fullerton, Calif., where he is currently a Staff Engineer. His current activities involve analysis and design of microwave systems components.

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

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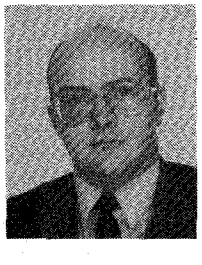

A. C. Priou (M'73) was born in 1944. He received the Doctor of Electronics degree in microwave option.

He is currently an Engineer with the Département d'Étude et de Recherches en Micro Ondes, Complexe Aérospatial, Centre d'Études 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 broad-banding 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. (This author contributed to the paper "Annotated literature survey of microwave ferrite control components and materials for 1968–1974," this issue, pp. 908–918.)

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Roger G. Roberts was born in Salt Rock, W. Va., on July 13, 1938. He received his B.S.E.E. degree from California State University at Long Beach, Long Beach, and has done graduate work at the California State University at Fullerton, Fullerton.

From 1960 to 1969 he was a member of the Technical Staff at the Autonetics Division of North American Rockwell where he was engaged in advanced development of microwave components. He joined the Ground Systems Division of Hughes Aircraft Company, Fullerton, Calif., in 1969 and has since developed various types of reciprocal and nonreciprocal ferrite devices. He is presently Group Head of the Ferrite Devices Group and is responsible for ferrite device technology.

Mr. Roberts is a member of Tau Beta Pi. (This author contributed to the paper "Annotated literature survey of microwave ferrite control components and materials for 1968–1974," this issue, pp. 908–918.)

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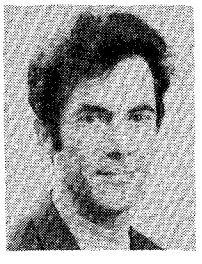

Lotfollah Shafai (S'67–M'69) was born in Maragheh, Azarbaijan, Iran, on March 17, 1941. He received the B.Sc. degree from the University of Tehran, Tehran, Iran, in 1963, and the M.A.Sc. and Ph.D. degrees from the University of Toronto, Toronto, Ont., Canada, in 1966 and 1969, respectively, all in electrical engineering.

Since November 1969 he has been with the Department of Electrical Engineering, University of Manitoba, Winnipeg, Man., Canada, where he is currently an Associate Professor. His teaching and research interests are in electromagnetic wave propagation and solid-state electronics.

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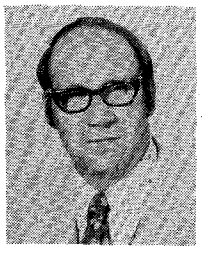

W. Richard Smith (M'72) was born in Salem, N.J., on July 2, 1942. He received the A.B. degree in physics from Princeton University, Princeton, N.J., in 1964, and the M.S. and Ph.D. degrees in applied physics from Stanford University, Stanford, Calif., in 1966 and 1970, respectively.

In 1969 he served as a Technical Consultant to North American Rockwell Corporation, Autonetics Division, in the area of microwave acoustic surface waves. In 1970 he joined the Ground Systems Group, Electromagnetics Laboratory, Hughes Aircraft Company, Fullerton, Calif., where he is now a Staff Physicist. His current research is concerned with the applica-

tion of surface acoustic waves to filters, delay lines, radar, and signal processing devices.

Dr. Smith is a member of Sigma Xi and was a co-winner of the 1973 Microwave Prize.

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Ross A. Speciale was born in Palermo, Italy, on July 24, 1927. He received the Ph.D. degree in electrical engineering from the Politecnico di Milano, Milan, Italy in 1955.

From September 1955 to late 1958 he served as Research and Development Engineer at Magneti Marelli, Milan, Italy, where he was involved in the development of microwave radio relay links for TV broadcasting and multiplex telephony. In 1958 he joined the Laben-Branch of Montecatini-Chemicals where he was involved until 1962 in the development of nuclear radiation measurement instrumentation and pulse-height analyzers. In 1962 he joined Philips Gloeilampen Fabrieken N.V. in Eindhoven, Holland, where he served until 1965 in the Isochronous Cyclotron Development Department, and until 1970 in oscilloscope development. In late 1970 he moved to the United States to join Tektronix, Inc., Beaverton, Oreg., where he has been involved in the development of high-speed subnanosecond circuitry for real-time oscilloscopes, new methods for wide-band high-level linear amplification, and for microwave-network characterization. He is holder of patents in the fields of high-frequency accelerating systems for particle accelerators and high-speed high-level waveform generators. He has authored various publications in the fields of accelerator technology, wide-band amplification, and lumped-distributed network analysis and synthesis. He is the originator of various computer-aided design methods and programs.

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Allen Taflove, for a photograph and biography please see page 719 of the August 1975 issue of this TRANSACTIONS.

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Raymond Tang (S'55–M'56) was born on December 18, 1933, in Shanghai, China. He received the B.S. degree from the Polytechnic Institute of Brooklyn Brooklyn, New York, N.Y., in 1955, and the M.S. degree from the University of Southern California, Los Angeles, in 1958, both in electrical engineering.

From 1955 until 1959 he was with Hughes Aircraft Company, Culver City, Calif. Since 1959 he has been with Hughes Aircraft Company, Fullerton, Calif. where he has been concerned with the fields of microwave antenna design and development. He has been particularly active in studies connected with beam-forming techniques, impedance matching of phased arrays, and phase shifters. He is now Manager of the Microwave Techniques Department of the Electromagnetics Laboratory.

Mr. Tang is a member of Eta Kappa Nu. (This author contributed to the paper "Annotated literature survey of microwave ferrite control components and materials for 1968–1974," this issue, pp. 908–918.)

Lawrence R. Whicker (M'60–SM'67) was born in Bristol, Va., on October 3, 1934. He received the B.S.E.E. and the M.S.E.E. degrees from the University of Tennessee, Knoxville, in 1957 and 1958, respectively, and the Ph.D. degree in electrical engineering from Purdue University, Lafayette, Ind., in 1964.

From 1958 to 1961 he was with the Sperry Microwave Electronics Company, Clearwater, Fla., where he was concerned with the design of microwave filters and ferrite millimeter-wavelength components. From 1961 to 1964 he held a Ford Foundation Fellowship at Purdue University where he conducted research in the areas of coupled-mode theory and propagation of microwave energy in a dispersive media. From 1964 to 1970 he held various technical and management positions at the Westinghouse Defense and Space Center, Baltimore, Md., and was responsible for programs in latching ferrite phasers, microwave ultrasonics, and microwave integrated circuits. Additionally, from 1964 to 1969 he served as a part-time faculty member at the University of Maryland, College Park. In 1970 he joined the Naval Research Laboratory, Washington, D.C., where he heads the Microwave Techniques Branch of the Electronics Technology Division. In this capacity he directs research efforts in microwave antennas, ferrite devices, microwave ultrasonics, and microwave and millimeter-wave integrated circuits.

Dr. Whicker is a member of Sigma Xi, Tau Beta Pi, Phi Kappa Phi, and Eta Kappa Nu. In addition to various committee assignments for the Department of Defense, he is a member of the S-MTT Administrative Committee, Chairman of Membership Services, and is Past Chairman of the S-MTT Technical Committee on Microwave Ferrites.

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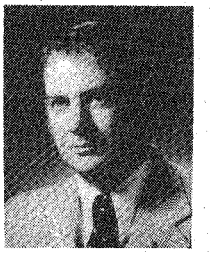

Larry K. Wilson (M'59–SM'73) was born in Russellville, Ky., on April 15, 1934. He received the B.S.E.E. and the M.S.E.E. degrees from the Georgia Institute of Technology, Atlanta, in 1955 and 1958, respectively, and the Ph.D. degree in electrical engineering from Vanderbilt University, Nashville, Tenn., in 1965 In 1965 he attended the Massachusetts Institute of Technology on a National Science Foundation Postdoctoral Fellowship.

From 1958 to 1961 he was with the Sperry Microwave Electronics Company, Clearwater, Fla., where he was engaged in the design and development of microwave ferrite devices and radar components. From 1961 to 1963 he was a Research Fellow at Vanderbilt where he conducted research in electron spin resonance spectroscopy and other magnetic resonance phenomena in solids. In 1964 he joined the faculty of the Department of Electrical Engineering at Vanderbilt University where he is now Professor of Electrical Engineering. From 1972 to 1975 he was Chairman of the Division of Electrical and Computing Sciences at Vanderbilt University. His teaching and research are in the fields of electromagnetic theory, the electrical and magnetic properties of materials, and microwave theory and techniques. He currently directs research projects in amorphous magnetism and microwave magnetics.

Dr. Wilson is a member of the Society of Sigma Xi, Tau Beta Pi, and Eta Kappa Nu. He is co-chairman of the S-MTT Standards Committee on Microwave Magnetics, member of the Microwave Ferrite Technical Committee, and the Magnetics Society Committee on High Frequency Magnetic Materials. He serves on the Microwave Ferrite Committee (WG-7)TC-51) of the International Electrotechnical Commission. (This author contributed to the paper "Annotated literature survey of microwave ferrite control components and materials for 1968–1974," this issue, pp. 908–918.)