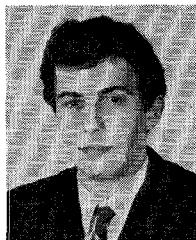


## Contributors



**Bruno Bianco** was born in Savona, Italy, on December 23, 1941. He received the degree in electronic engineering from the University of Genoa, Genoa, Italy, in 1967.

In 1967 he joined the National Electro-technic Institute (IEN) in Torino. His main interest is in the fields of distributed systems and computer-oriented techniques.

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**Robert V. Garver** (M'57-SM'68), for a photograph and biography please see page 85 of the January 1972 issue of this TRANSACTIONS.

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**Paul Lagasse** was born in Ghent, Belgium, on April 19, 1947. He received the E.E. degree *maxima cum laude* from the University of Ghent, Ghent, Belgium, in 1969. He is presently working toward a Sc.D. degree at the same University.

His present research interests are in the area of microwave acoustics. He recently spent three months of study at Professor Ash's laboratory, University College, London, England.

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**Leonard Lewin** (A'69) was born in Southend-on-Sea, England, on July 22, 1919.

During World War II he was with the British Admiralty doing research on antenna design, waveguides, and radar. In 1946, he joined Standard Telecommunication Laboratories, Harlow, England, where he became Head of the Microwave Laboratory in 1950 and Assistant Manager of the Transmission Laboratory in 1962. Currently he is Professor of Electrical Engineering, University of Colorado, Boulder. He is the author of many papers and patents in the field of antennas and waveguides, as well as author of three research books.

Mr. Lewin is a member of the Institute of Electrical Engineers (London) and a fellow of the British Interplanetary Society. He won the Microwave Prize for a paper on singular integral equations applied to waveguides in 1962. In 1967 he was awarded an honorary degree of Doctor of Science from the University of Colorado.



**Daniel J. Massé** (M'58) received his diploma of electrical engineering from École Centrale de TSF, Paris, France, in 1951.

From 1951 to 1953 he was engaged in the research and development of remote control equipment at the SECRe, Paris, France. In 1953 he joined the Compagnie Générale de TSF, Paris, where he was in charge of the design of test equipment for fire control computers and of the final testing of the computers. In 1957 he joined the Special Microwave Devices Operation of Raytheon Company, where he was employed as an engineer in the research and development of ferrite components, specializing in TEM devices. From April 1961 to May 1962 he was at the Research Division of Raytheon Company working on an Air Force contract study of nonlinear microwave ferroelectric devices. During this period he was concerned with the application of ferroelectric materials to parametric devices. In 1962 he resumed his work at the Special Microwave Devices Operation working on TEM devices. In March 1967 he returned to the Research Division to become a Staff Member of the Microwave Integrated Circuits and Semiconductor Group where his broad experience in microwave measurements techniques is used in the design and measurement of planar ferrite devices and microwave integrated circuits, and dielectric material properties and semiconductor bulk properties.

Mr. Massé is a member of the Professional Group on Microwave Theory and Techniques.

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**Robert A. Pucel** (S'48-A'52-M'56-SM'64) received the B.S. and M.S. degrees in 1951 and the D.Sc. degree in 1955, all in electrical communications from M.I.T., Cambridge, Mass.

From 1948 to 1951 he was a test engineer on the M.I.T. Cooperative Course with General Electric Company. Following his graduation he joined the Microwave Tube Group at the Research Division of Raytheon Company. A year later he returned to M.I.T., where from 1952 to 1955 he was a Staff Member of the M.I.T. Research Laboratory of Electronics doing theoretical studies in electric network theory which were the basis for his doctoral thesis. In 1955 he rejoined the Raytheon Research Division, where he was Project Manager for the Microwave Semiconductor and Integrated Circuits Program from 1965 to 1970. Since January 1971 he has served as Consultant to the Microwave Semiconductor Devices Program of the Research Division and also to the Microwave Transistor Group of the Microwave and Power Tube Division. His work has involved theoretical and experimental feasibility studies of new semiconductor device concepts and the design of high-frequency semiconductor devices, for example, the spacistor, tunnel diode, varactor, avalanche diode, Gunn and LSA structures, and metal-semiconductor-metal (MSM) diodes. Recently his activities also have included theoretical and experimental studies of microstrip propagation on dielectric and magnetic substrates, thin-film components for microwave integrated circuits, and miniature dielectric cavities. He has written numerous publications and internal reports.

Dr. Pucel is a member of Sigma Xi, the Professional Technical Group on Electron Devices, and the Professional Technical Group on Microwave Theory and Techniques. He is also a Registered Professional Engineer in the State of Massachusetts.

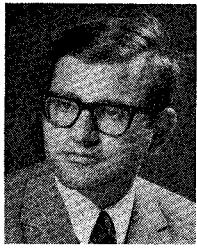


**Sandro Ridella** was born in Genoa, Italy, on September 11, 1943. He received the degree in electronic engineering from the University of Genoa, Genoa, Italy, in 1966.

In 1966 he joined the faculty of the University of Genoa, where he is presently Assistant of Network Theory. His main interest lies in the field of distributed systems.

Dr. Ridella is a member of the Associazione Elettrotecnica Italiana.

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**Tullio E. Rozzi** (M'66) was born in Civitanova, Italy, on September 13, 1941. He received the Dottore degree in physics from the University of Pisa, Italy, in 1965, and the Ph.D. degree in electronic engineering from Leeds University, Yorkshire, England, in 1968.

From 1963 to 1965, while at the University of Pisa, he worked on the Zeeman and Stark effects at microwave frequencies. In 1965 he joined the Electronic Engineering Depart-

ment, Leeds University, where he pursued research in microwave theory and distributed network synthesis. Since 1968 he has been with the Philips Research Laboratories, Eindhoven, The Netherlands, where he has been engaged primarily in the fields of linear and nonlinear guided wave propagation and classical network theory. He is currently pursuing research in electromagnetic theory and optical telecommunications.

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**Jean Van Bladel** (M'54-SM'56) was born in Antwerp, Belgium, on July 24, 1922. He received the E.E. degree from Brussels University, Brussels, Belgium, in 1947, and the Ph.D. degree in electrical engineering from the University of Wisconsin, Madison, in 1950.

From 1950 to 1954 he was Head of the Radar Laboratory of the MBLE factories, Brussels, and from 1954 to 1964 he taught at Washington University, St. Louis, Mo., and the University of Wisconsin. Currently he is Professor of Electrical Engineering at the University of Ghent, Ghent, Belgium, and Director of the University's Laboratory for Electromagnetism and Acoustics.