

Editor's Overview

THIS ISSUE of the TRANSACTIONS is devoted to the 1976 International Microwave Symposium and, along with the *Symposium Digest*, serves as the archival record for the Symposium. The papers included in this issue are in all cases extensions of the summaries given in the *Digest* and cover more current information given at the presentations. Included here also are overview descriptions of the principal functions of the Symposium, the technical program, exhibits, social programs, and members of the committees responsible for the symposium. Our annual Awards Banquet is of particular interest since it is the one meeting at which we honor our outstanding contributors for the preceding year.

Each year the annual Symposium features the significant technical advances and reflects the general condition of the field including the current moods of that year. Our Symposium this year reflects an upward trend in the field and an optimistic outlook for R&D and the industry in general. There is a predominant international flavor shown

by the amount of R&D reported by authors from eight different countries. The growth of exhibits this year reflects the current trend to combine applications and products with the new technologies. Our conference had one additional feature, the celebration of the 200th anniversary of the founding of the United States, which added a unique mood to the meeting and provided an appropriate theme, "The Bicentennial Symposium."

From all aspects, the 1976 Symposium has been successful. This special issue of the TRANSACTIONS completes the Symposium's last function. The authors, the Technical Program Committee, and the reviewers are gratefully commended for helping to assemble this issue. My thanks to all contributors, with special thanks to Del Horton, who helped coordinate the logging and reviews of the papers.

—JOHN B. HORTON
Guest Editor



John B. Horton (S'55-M'57-SM'68) was born in Roxboro, NC. He received the B.E.E. degree in communications from George Washington University, Washington, DC, in 1956 and the M.S.E.E. degree from the University of Pennsylvania, Philadelphia, in 1964.

From 1956 to 1963 he was employed at the Radio Corporation of America as a Design and Development Engineer. He worked on microwave components, IF and video devices, and radar subsystems. He was Project Engineer on a five-frequency telemetry receiver and on an L-band parametric amplifier field change kit for operational radars. In 1963 he joined the Sperry Microwave Electronics Company as a Design Engineer in the Advanced Microwave Techniques Department. He subsequently worked on tunnel diode amplifiers, parametric amplifiers, and frequency multipliers. From 1965 to 1966 he was assigned to the Research Section as Project Engineer on a ferroelectric material study program. His work involved ferroelectric material research and the application of ferroelectric material to microwave components. In 1966 he joined Texas Instruments Incorporated as a Member of the Technical Staff of the Semiconductor Research and Development Laboratory. He subsequently worked on microwave integrated circuits for the MERA microwave module and was responsible for research and development of microwave integrated circuits for missile applications and wide-band low-noise transistor amplifiers. From 1969 to 1970 he was Section Head for circuit research and development in microwave integrated circuits. In 1971 he joined the Electronic Resources Division of Tasker Industries. He was Manager of the Microwave Department and was responsible for

development of microwave components and subsystems. In 1972 he joined TRW Systems, Redondo Beach, CA, as a Department Staff Member. In this position he was a technical consultant throughout the RF Laboratory and was concerned with the implementation of satellite transponders. He was involved with design of transponders in L, Ku, and Ka band. In April 1974 he joined the General Electric Valley Forge Space Center. Since June 1974 he has been Manager of Communication Subsystem Design. Members of his group are involved in programs throughout the Space Center. Mr. Horton is personally involved in most of these programs. He is the author/coauthor of ten papers and seventeen lectures, all concerned with microwave components and subsystems. He has been Guest Lecturer at the University of Michigan and at the University of California, Los Angeles.

Mr. Horton is a member of the IEEE S-MTT, G-ED, S-C, and S-AES groups, and is a member of AIAA and the National Administrative Committee of S-MTT. He has served as Editor of the MTT Newsletter, Vice President and President of MTT, and is presently Ex-officio Past President of MTT. He is a Registered Professional Engineer in the State of New Jersey.