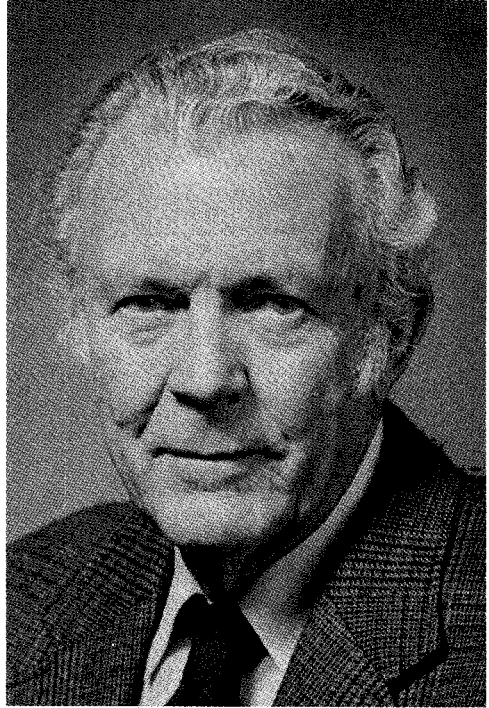


1992 Distinguished Lecturer

Dr. John R. Whinnery

John R. Whinnery was born in Read, Colorado on July 26, 1916. He received the B.S. degree in Electrical Engineering from the University of California, Berkeley, in 1937, and the Ph.D. from the same institution in 1948. From 1937 to 1946 he was with the General Electric Company, Schenectady, New York, working on problems in waveguide discontinuities, microwave tubes, and applications to radar. During that period he was active in war training classes, and in 1945–46 held a part-time lectureship at Union College, Schenectady. Dr. Whinnery has been on the faculty of the University of California, Berkeley, since 1946, holding appointments as Lecturer, Associate Professor, and Professor. In 1980 he was appointed University Professor at the University of California. From 1952 to 1956 he directed the Electronic Research Laboratory; from 1956 to 1959 he was Chairman of the Electrical Engineering Department; from 1959 to 1963 he was Dean of the College of Engineering at Berkeley. On leaves from the University, he acted as head of the Microwave Tube Research Section of the Hughes Aircraft Company in 1951–52, and engaged in research in quantum electronics at the Bell Laboratories, Inc., Murray Hill, New Jersey, in 1963–64. He has held Visiting Professorship at the University of California, Santa Cruz and at the Stanford University. In 1959 he held a John Simon Guggenheim Fellowship at the ETH, Zurich, Switzerland; in 1973–74 he held a Research Professorship in the Miller Institute for Basic Research in Science at UC Berkeley; in 1986 he had an appointment at the California Institute of Technology on a Sherman Fairchild Distinguished Scholarship; in May 1986 he was invited to the People's Republic of China to receive the award of Honorary Professor of Chengdu Institute of Radio Engineering.



He was elected as a Fellow of the American Academy of Arts and Sciences; Fellow of the American Association for the Advancement of Science; Fellow of the Optical Society of America; a Fellow and Life Member of the American Society for Engineering Education. He was also elected to the National Academy of Sciences and National Academy of Engineering. He has served on numerous advisory committees to government agencies and other educational institutes. He has received from IEEE the Education Medal, Microwave Career Award, Centennial Medal and Medal of Honor Award. From ASEE he received the Lamme Medal. From the University of California, Berkeley he received the Distinguished Alumnus Award. From the Catholic University of Chile he received the University Anniversary Commemorative Medal. From the National Academy of Engineering he was the recipient of 1986 Founders Award. In 1987 he received the Berkeley Citation from University of California, Berkeley for distinguished achievement and for notable service to the University. In 1989 he became a Berkeley Fellows at the University of California, Berkeley. He was selected as a MTT-S Distinguished Lecturer for the U.S. by the IEEE MTT-S in 1990.

1992 Distinguished Lecturer

Dr. Walter R. Curtice

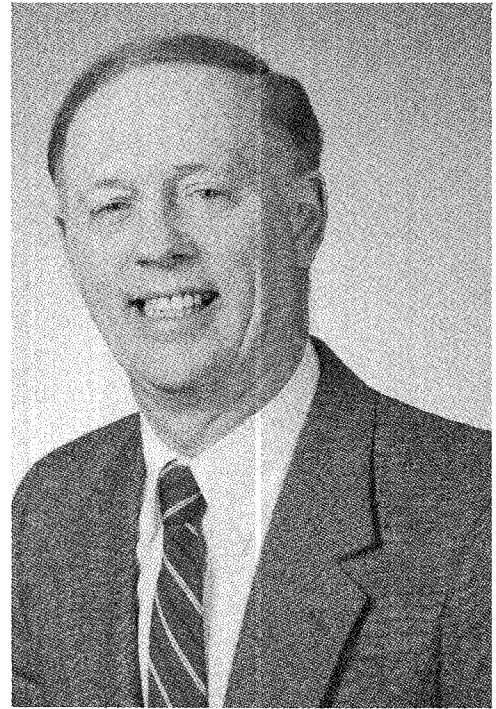
Walter R. Curtice received the BEE, MS and Ph D degrees from Cornell University. His doctoral thesis, presented in 1962, concerned noise in travelling-wave tube amplifiers.

Upon graduation, he joined the Microwave and Power Tube Division of the Raytheon Company as a Senior Research and Development Engineer and participated in microwave tube development programs. He became a Visiting Assistant Professor at the University of Michigan, Ann Arbor, Michigan in 1967 and Associate Professor in 1969. In addition to teaching, he was engaged in sponsored research on microwave semiconductors, with emphasis on GaAs devices.

In 1973, Dr. Curtice joined RCA Laboratories, Princeton, New Jersey, as a Member of the Technical Staff in the Microwave and Technology Center. Initially involved with Silicon IMPATT and TRAPATT devices, he then developed the two-dimensional Electron Temperature model for GaAs field-effect transistors, and later an improved circuit model for GaAs FET simulation that is widely used in SPICE and harmonic-balance circuit simulation software. In 1984, he received the RCA Laboratories Outstanding Achievement Award for the development of advanced techniques for computer simulation of III-V compound field-effect transistors.

In 1987, Dr. Curtice joined Microwave Semiconductor Corporation, Somerset, New Jersey, as manager of Computer-Aided Design and Modeling and, in 1989, became an independent consultant.

He has written over 50 technical papers, has 10 U. S. patents issued to him, and was made a Fellow of the IEEE in 1988. He is also a member of Tau Beta Pi, Eta Kappa Nu, and Sigma Xi, is active in New Jersey IEEE Societies and is past Chairman of the Princeton Section of the IEEE. He was Distinguished Lecturer for the Microwave Theory and Techniques Society of the IEEE for 1990–1991 and is on the editorial board of the Microwave Theory and Techniques Society and a member of the technical program committee for the MTT International Symposium for three years.



1992 Distinguished Lecturer

Professor Vittorio Rizzoli

Vittorio Rizzoli received the degrees in electronic engineering from the University of Bologna, Italy. His thesis dealt with the computer-aided analysis of multistrip components for MIC's, with particular emphasis on the design criteria for interdigitated couplers.

From 1971 to 1973 he held a research grant issued by Fondazione Ugo Bordoni, and joined the Centro Onde Millimetriche in Pontecchio Marconi, Bologna, where he was involved in the development of IF circuitry for a millimeter-wave circular-waveguide communications system. In 1973 he was with the Stanford Park Division of the Hewlett Packard Company, Palo Alto, CA, where he was engaged in microwave transistor modeling and medium-power amplifier design. In 1974 he joined the University of Bologna, Italy, as an Associated Professor of Circuit Theory, and in 1980 he became a Full Professor of Electromagnetic Fields and Circuits. His teaching and research activities have been devoted to several topics, including the theory of electromagnetic propagation in optical fibers, and the simulation and design of passive and active microwave integrated circuits. More recently, he has been engaged in the development of algorithms and software tools for the computer-aided design of nonlinear circuits, and among other, he has developed the first general-purpose harmonic-balance simulator with optimization capabilities. He has authored or co-authored over 85 technical papers in the fields of electromagnetic propagation, microwave circuit CAD, and related subjects.



Mr. Rizzoli is a member of the Technical Committee MTT-1 on Computer-Aided Design, the editorial board of the IEEE Transactions on Microwave Theory and Techniques, and of John Wiley's *International Journal of Microwave and Millimeter-wave Computer Aided Engineering*. Since 1987, he has also been a member of the Technical Program Committee of the European Microwave Conference. In 1990–1991 he served as the Distinguished Microwave Lecturer of IEEE MTT-S for Region 8.