

2003 Distinguished Service Award

Edward C. Niehenke



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Niehenke**

This award is given in recognition of significant contributions and outstanding service to the Microwave Theory and Techniques Society and the microwave profession over a sustained period of time. This year's recipient is Edward E. Niehenke, whose citation reads *"For His Outstanding and Dedicated Service to the Society."*

Edward C. Niehenke (S'61-M'61-SM'82-F'89) was born in Abington, PA, in 1937. He received his BS, MS, and Ph.D. degrees in electrical engineering from Drexel University, Philadelphia, PA, in 1961, 1965, and 1997 respectively.

From 1961 to 1963 he was with Martin Marietta where he developed microwave transitions for superconducting delay lines and investigated behavior of semiconductor devices at 770K. From 1963 to 1997 he was with Westinghouse/Northrop Grumman in Baltimore, MD, where he developed state-of-the-art RF/microwave/millimeter wave, amplifiers, oscillators, limiters, phase shifters, attenuators, mixers, frequency multipliers, optical links, transceivers, miniature integrated assemblies, and subsystems. He retired

from Northrop Grumman in 1997 as a senior advisory engineer. He is now a consultant and lectures on nonlinear circuits and transceiver design.

Niehenke holds nine patents, three Westinghouse Trade Secret Awards, one Westinghouse Value Engineering Merit Award, and one George Westinghouse Innovation Award. He has given over 120 presentations at symposia, workshops, IEEE chapter/section meetings, and keynote addresses at conferences. He has authored over 30 papers on RF/microwave/millimeter wave circuits. He was on the faculty of the Johns Hopkins University, teaching electricity and magnetism for three years. As the IEEE Microwave Theory and Techniques Society 1986/87 Distinguished Microwave Lecturer, he gave his lecture "Gallium Arsenide—Key to Modern Microwave Technology" to 70 groups throughout the world. Since 1983 he has been actively teaching linear, nonlinear, and transceiver circuit design for wireless communications to over 3000 professionals throughout the world for Besser Associates and the Continuing Education of Europe.

Niehenke's local service to IEEE includes Baltimore Section Director, and Facilities Chairman, Secretary/Treasurer, and Chairman of the Baltimore AP/MTT Chapter. Baltimore was named best chapter in 1980 under his leadership. As a member of MTT-S ADCOM for 9 years he served as MTT-S Membership Services Chairman, Finance Committee, and Nominations Committee chairman. He was the technical program chairman (1998) and chairman (1986) of two International Microwave Symposia held in Baltimore. He now serves as a member of the MTT-S Technical Program Committee and is the MTT-S Ombudsman.

Niehenke is a member of the Microwave and Millimeter Wave Integrated Circuits, Microwave Systems, and Wireless Communications MTT-S Technical Committees and serves as a member of the MTT-S Technical Program Committee. He was a recipient of the IEEE Centennial and Millennium Medals, is a Fellow of the IEEE, and is a registered professional engineer in the State of Maryland.