

1994 Pioneer Award

Michiyuki Uenohara

The Pioneer Award recognizes contributions which have had major impact on our field and have stood the test of time. The basis for the nomination is an archival paper in the field of interest of MTT-S, published at least 20 years prior to the year of the award, i.e., it recognizes important technical contributions that have had a continuing impact on the practice of microwave engineering, for a period exceeding two decades.

The 1994 winner is Dr. Michiyuki Uenohara, Executive Advisor of NEC Corporation. The award consists of a plaque and a check for \$1000.

Dr. Uenohara is cited "FOR HIS PIONEERING CONTRIBUTIONS TO THE DEVELOPMENT OF LOW NOISE MICROWAVE PARAMETRIC AMPLIFIERS." There was a massive effort on parametric amplifiers in the fifties and sixties. There were many contributors, but Dr. Uenohara demonstrated, for the first time, the real implementation of a microwave parametric amplifier with excellent noise figure. These results were reported in the Proceedings of IRE, Volume 47, pp. 2114-2115.

Dr. Michiyuki Uenohara is Executive Advisor of NEC Corporation in Tokyo, Japan. He also serves as chairman of NEC Research Institute in Princeton, New Jersey, and as chairman of the Board of Trustees at NEC Research Institute for Advanced Management Systems in Tokyo.

Dr. Uenohara received his B.S. degree from Nihon University in Tokyo, and the M.S. and Ph.D. degrees from Ohio State University, all in Electrical Engineering. Before joining NEC, he had worked at Bell Laboratories as MTS and supervisor for ten years.

At NEC he managed corporate research and development as General manager of the Central Research Laboratories until and even after he was elected to the Board of Directors. In 1989, he resigned as Senior Executive Vice President and Director and took his present position.

Dr. Uenohara is a Japanese member of an advisory panel, whose establishment is based on the US-Japan agreement on cooperation in science and technology. He also serves on various government councils, including the Higher Education Council of the Ministry of Education, Science, and Culture.

He is a Fellow of IEEE, a member of the Engineering Academy of Japan, a foreign associate of the National Academy of Engineering and of the Swedish Royal Academy of Engineering Sciences. In 1992, he received the Blue Ribbon Medal from the Japanese government for his meritorious contributions on the advancement of microwave device technology.

