

## Pioneer Award:

Recognizes a major, lasting contribution in the field of interest of MTT-S, published in an archival journal, at least 20 years prior to the year of the award, by an individual or team of up to three (3). This year's recipients are **Peter Russer** and **Herbert Hillbrand**.

### Peter Russer

"In recognition of pioneering contributions and the publication of an efficient method for computer aided noise analysis of linear amplifier networks"



**Peter Russer** received the Dipl.-Ing. (M.S.E.E.) degree in 1967 and the Dr. techn. (Ph.D.E.E.) degrees in 1967 and 1971, respectively, both from the Vienna University of Technology, Austria. In 1971 he joined the Research Institute of AEG-Telefunken in Ulm, Germany, where he worked on fiber optic communication, broadband solid-state electronic circuits, statistical noise analysis of microwave circuits, laser modulation and fiber optic gyroscopes. With his research group he realized in 1978 the first optical fiber transmission link for 1 Gbit/s worldwide.

From 1981 to 2008 Peter Russer has been Professor and head of the Institute for High Frequency Engineering at the Technische Universität München (TUM), Germany. From October 1992 to March 1995 he also has been Director of the Ferdinand-Braun-Institut für Höchstfrequenztechnik, Berlin. From 1997 to 1999 he has been Dean of the Department of Electrical Engineering and Information Technology of the Technische Universität München. In 1990 Peter Russer has been Visiting Professor at the University of Ottawa, in 1993 he has been Visiting Professor at the University of Victoria and from August to October 2009 he has been Visiting Scientist at the Institut Supérieur de l'Aéronautique et de l'Espace (ISAE) in Toulouse.

The current research interests of Peter Russer include electromagnetic fields, numerical electro-magnetics, metamaterials, integrated microwave and millimeter-wave circuits, statistical noise analysis of microwave circuits, time-domain measurement methods in electromagnetic compatibility, methods for computer-aided design of microwave circuits and antennas, quantum nanoelectronics and quantum computing.

Peter Russer has published five books and more than 700 scientific papers in refereed journals and conference proceedings. In 1979 Peter Russer received the best paper award from the NTG (German Society for Information Technology). In 1994 he was elected Fellow of the IEEE. In 2006 Peter Russer was elected member of acatech, the German Academy of Science and Engineering. In 2006 he received the Distinguished Educator Award of the IEEE MTT Society and in 2009 the Distinguished Service Award from the European Microwave Association (EuMA). In 2007 Peter Russer received an honorary Doctor degree from the Moscow University of Aerospace Technologies (MAI). In 2010 Peter Russer has been awarded the Golden Ring of Distinction, the highest accolade of the VDE - the German Association for Electrical, Electronic and Information Technologies.