1999 MICROWAVE APPLICATION AWARD

Christen Rauscher

The Microwave Application Award is presented aperiodically to individuals for an outstanding application of microwave theory and techniques. The eligibility requirements are creation of a new device, component or technique, or a novel use of components, or both. The award consists of a plaque, certificate, and an honorarium of $1,000.

Dr. Christen Rauscher is the 1999 recipients of the Microwave Applications Award. His award citation reads: "FOR PROPOSING AND DEMONSTRATING INNOVATIVE APPROACHES TO THE DESIGN OF MICROWAVE FILTERS AND FREQUENCY CHANNELIZERS."

Christen Rauscher received his diploma in electrical engineering and his doctorate degree in 1969 and 1975, respectively, both from the Swiss Federal Institute of Technology, Zürich, Switzerland.

From 1976 to 1978 he held an international fellowship from the Swiss National Science Foundation, studying the nonlinear behavior of GaAs field-effect transistors at Cornell University, Ithaca, NY, and at the Naval Research Laboratory, Washington, DC. Subsequently, he joined the Naval Research Laboratory as a member of the technical staff, where he currently heads the Solid-State Circuits Section. On sabbatical leave from 1985 to 1986, he investigated the application of high-speed photoconductor technology to the on-chip characterization of microwave monolithic circuits and millimeter-wave devices at the Los Alamos National Laboratory, Los Alamos, NM. His present research interests remain centered on the pursuit of new high-frequency filter concepts and on the exploitation of nonlinear signal interaction in semiconductor devices at microwave, millimeter-wave, and optical frequencies.

Dr. Rauscher is a Fellow of the IEEE. He has received several notable awards, including the 1987 IEEE Microwave Prize for his work on microwave distributed active filters, and the 1991 NRL Sigma Xi Applied Science Award from the Scientific Research Society of America. He has published numerous articles on his findings and holds ten patents on inventions of his in the area of microwave and millimeter-wave circuits. Dr. Rauscher is currently serving a three-year term as IEEE Distinguished Microwave Lecturer.