

EuMA Distinguished Service Award 2007

This award is given each year during the European Microwave Week to recognize and appreciate the work of an individual who has provided outstanding service for the benefit of the European microwave community and, in particular, for the advancement of the European Microwave Association **EuMA**. The award, a bronze medal carrying the name of the awarded, is the highest award **EuMA** confers.

On October 11, 2007, Prof. dr. Erik Kollberg received the **EuMA** Distinguished Service Award 2007.



Prof. Kollberg was born in Stockholm, Sweden, on 24 June 1937. He graduated in electrical engineering in 1961 at Chalmers Technical University in Gothenburg, Sweden, and defended his PhD at the same university in 1970. He started his career as a Research Engineer at the Department of Electron Physics I, at Chalmers University of Technology, in the period 1960-1967; he was Docent (Assistant Professor) at Chalmers University of Technology during 1970-1978; he was appointed Chair Professor in 1979 and acted as a Dean of Electrical and Computer Engineering at Chalmers University during 1987-90.

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From 1967 to 1987 he headed the group that developed radio astronomy receivers in the frequency band ranging from a few GHz up to 150 GHz for the Onsala Space Observatory telescopes. He founded the NUTEK and Chalmers Center for High Speed Electronics (CHACH), and led it from 1995 to 1997. He headed the department for Microelectronics at the Electrical and computer engineering and the group Microwave Electronics.

Prof. Kollberg is a Fellow of IEEE, Member of Royal Swedish Academy of Engineering Sciences, Member of The Royal Swedish Academy of Sciences, Member of The Royal Society of Arts and Sciences in Göteborg and member of other international recognized organizations. He was member of the "Science Advisory Group" of the ESA project FIRST (Far Infrared Sub-millimeter Space Telescope), member of the organizing committee of ISDRS (International Semiconductor Device Research Symposium) and member of the Board for the SSF program on High Frequency Electronics. He contributed significantly to the European Microwave Conference since 1982.

He did pioneering research on applications of extremely low-noise millimetre wave superconducting mixers. III-V devices (Schottky mixer diodes and HEMTs) and low noise amplifiers. He pointed out first saturation effects in semiconductor varactors. He is inventor of the Heterostructure Barrier Varactor (HBV) diode. His research activity on superconducting hot electron mixers led to world record results. His present research interests are on superconducting hot-electron bolometer mixers at terahertz frequencies, ferroelectric varactors and phase shifters and new types of a sub-millimetre wave semiconductor varactor. He defined the SSF program for High Frequency Electronics.

He published over 275 papers, holds 6 patents and published several books and book chapters

In 1982 he received the Microwave Price at the 12th European Microwave Conference, in 1986 he received The Dahlén gold medal for achievements in mm-wave technology and got a Honourable Doctors degree at the Helsinki University of Technology in 2000.