

1991 Microwave Career Award

Sogo Okamura



“For a career of meritorious achievement and outstanding technical contributions in the field of microwave theory and techniques”.

The *Microwave Career Award* is the highest award given by the Microwave Theory and Techniques Society. The eligibility requirements are publications in technical journals, presentations of lectures, and an distinguished record of achievement over an entire career. The award consists of a certificate, a plaque, a cash sum of two thousand dollars, and a feature publication in the *IEEE Transactions on Microwave Theory and Techniques*.

Sogo Okamura (A'52, M'57, F'73, LF'86) has made important contributions to microwave technology and its development in Japan as a distinguished researcher and teacher. He studied electrical engineering at The University of Tokyo and received the Bachelor of Engineering Degree (1940) and later the Doctor of Engineering Degree (1951). He became a lecturer there in 1940, but enlisted in the Navy where he engaged in research and development of S-band radar at the Naval Research Institute until the end of World War II. He then returned to the University first as associate professor (1947) and later, professor (1951). On reaching emeritus status in 1978 he became Professor at Tokyo Denki University and now serves as its President.

In his technical work in microwave communications he engaged in the measurement of atmospheric attenuation at millimeter frequencies and discovered and theoretically verified the effect of polarization on rain attenuation. This work contributed to the development of EHF satellite communications technology. He developed a precise measurement technique for microwave power standards and noise sources, one of which was used as the domestic noise standard in Sweden and elsewhere for many years. He has also made important contributions in high sensitivity detection, electron tubes, and microwave solid state devices.

Professor Okamura has been an important force in the development of microwaves in Japan. While at the University he also served as Head of the Millimetric Wave Section in the Radio Research Laboratories, Ministry in Post and Telecommunications.

During his prolific career Prof. Okamura has published 37 articles and nine books and book chapters. He is a Fellow of the IEEE, the IEE (UK), and has received numerous honors in Japan and elsewhere. He was President of both the Institute of Electrical Engineers of Japan and the Institute of Electronics and Communication Engineers of Japan.