

# 1987 Microwave Career Award

Robert W. Beatty

The Microwave Career Award is the highest award given by the Microwave Theory and Techniques Society. It is given to an individual for a career of meritorious achievement and outstanding technical contribution in the field of microwave theory and techniques. The eligibility requirements are publication in technical journals, presentations of lectures and a distinguished career of contributions to the microwave field. This award is given only to those individuals who have distinguished themselves over a long period of time.

The award consists of a suitable certificate, a plaque, a cash sum of two thousand dollars and a feature publication in the **IEEE Transactions on Microwave Theory and Techniques**.

The Administrative Committee of the Microwave Theory and Techniques Society has selected Robert Beatty as the recipient of the 1987 Microwave Career Award, "for a career of meritorious achievement and outstanding technical contribution in the field of microwave theory and techniques."



**Robert W. Beatty** (S'43 - A'45 - M'50 - SM'53 - F'67) was born in York, PA, on May 31, 1917. He received the B.S. degree in electrical engineering from George Washington University, Washington, D.C., in 1939, the S.M. degree in electrical communication from the Massachusetts Institute of Technology, Cambridge, in 1943, and the Doctor of Engineering degree from the University of Tokyo, Tokyo, Japan, in 1972.

From 1940 to 1942 he was employed by the U.S. Naval Research Laboratory, Washington D.C., in work on underwater sound- and radio-direction finding. He was a Staff Aide at the M.I.T. Radar School in 1943 and served in the U.S. Naval Reserve from 1943 to 1946. He has had several years' experience in the field of consulting radio engineering for the radio broadcast industry. From 1948 to 1974 he was employed by the U.S. National Bureau of Standards, working in the field of microwave standards, and was Chief of the Microwave Circuit Standards Section at NBS, Boulder, Colo., from 1955 to 1962. Dr. Beatty received the Department of Commerce Silver Medal in 1963.

Over a period of more than 25 years, he published numerous technical articles, a book on Microwave Network Analysis with Dr. D.M. Kerns (Pergamon Press, 1967), and two National Bureau of Standards Monographs (nos. 137 and 151) concerned with microwave and automated measurements.

He has been a member of Sigma Tau, Theta Tau, Sigma Xi, the Instrument Society of America (ISA) and the International Scientific Radio Union (URSI). He was chairman of U.S. Commission I of URSI from 1957 to 1960 and was editor of the **IEEE Transactions on Microwave Theory and Techniques** during 1963-1965. He was Scientific Editor of Commission I for the 14th and 15th General Assemblies of URSI, and was for many years a member of the Administrative Committee of the IEEE Group on Microwave Theory and Techniques, now the Microwave Theory and Techniques Society.

He was sent by the U.S. National Bureau of Standards to Japan in 1970 to be a guest worker at the Electrotechnical Laboratory (ETL) in Tanashi, Tokyo. While there, he delivered lectures (on microwave standards developed at NBS in Boulder, Colorado) at each of the Imperial Universities in Japan. He received an award from the Director of ETL for meritorious service.

Together with Mr. I. Tajima, President of the Anritsu Electric Company, Tokyo, Japan, he organized the 1973 Microwave Measurement Seminar in Tokyo, Japan, and helped open the first Microwave Exhibition at the U.S. Trade Center in Tokyo.

Since retiring from the National Bureau of Standards in 1974, he has done consulting work for the Jet Propulsion Laboratory, Pasadena, California, and the General Dynamics Electrodynamics Division, San Diego, California.

He was the 1975 MTT-S National Lecturer, delivering a lecture entitled "The Development of Modern Automatic Systems for the Measurement of Network Parameters."

In 1985, he became a part-time employee of the Barth Electronics Co., Boulder City, Nevada.