

1992 Microwave Career Award

Theodore S. Saad



The Microwave Career Award is the highest honor bestowed by MTT-S. It recognizes an individual for a lifetime career of meritorious service and technical excellence in our field.

The 1992 award was made to Theodore S. Saad, Chairman and CEO of Sage Laboratories Inc.

Ted Saad had a distinguished technical career. He was a member of the famous M.I.T. Radiation Laboratory, during World War II, and his technical creativeness is best characterized by the 17 patents he received. His concern for broad dissemination of practical information to microwave engineers led to him being the cofounder of Microwave Journal and Artech House Publishing.

Mr Saad, who has been a dedicated MTT member and at this time is the distinguished "patriarch" of MTT-S ADCOM, has been honored by MTT-S in the past and it is certainly appropriate to bestow on him MTT-S's highest award. His Career Award Citation reads:

"FOR A CAREER OF MERITORIOUS ACHIEVEMENT AND OUTSTANDING CONTRIBUTIONS TO THE FIELD OF MICROWAVE THEORY AND TECHNIQUES".

The award consists of a plaque, certificate and US\$2000.

Theodore S. Saad (S'41, A'45, SM'54, F'65, LF'86) received the Bachelor's Degree in Electrical Engineering from M.I.T. in 1941. During his senior year, he took his first microwave course under W.W. Hansen. For his senior thesis, under the supervision of Professor W.W. Barrow, he did a study of waveguide bends at 10cm wavelength, a project for which he designed his first slotted line.

After 7 months at Sylvania, working on the manufacture and test of fluorescent lamps, he joined the M.I.T. Radiation laboratory as a Research Associate in January 1942. He remained there until November 1945. At the Laboratory, he worked on a variety of projects, first in the R.F. Components Group and later, in the Beacon Group.

In November 1945, he joined the Submarine Signal Company as a Senior Development Engineer and assistant head of the microwave group in charge of design. The group was responsible for producing the first KU Band radar set, under contract to the U.S. Navy.

In March 1949, Mr. Saad helped to form Microwave Development Laboratories Inc., where he was Vice President and Chief Engineer. While at MDL, he was responsible for the design of a number of passive microwave components, including rotary joints, directional couplers, wavemeters, mixers, waveguide switches, etc . . .

In October 1953, he joined Sylvania as a Microwave Engineering Specialist. While there, he helped to standardize the measurement of microwave diodes. In addition, he designed new microwave diodes.

In January 1955, he co-founded and became President and Chairman of the Board of Sage Laboratories, Inc. He is presently Chairman and CEO. During his years at Sage, he has designed a variety of passive microwave components, including mixers, diode holders, directional couplers, rotary joints, phase shifters, Wireline, etc . . .

As a practicing engineer, he has been awarded 17 patents.

Mr. Saad is a co-founder of Horizon House Microwave Inc., which publishes the Microwave Journal and Telecommunications. He is also a co-founder of Artech House, which publishes technical books. He was the creator and editor of the Microwave Engineer's Handbook.

Mr. Saad was a member of the second Administrative Committee of the Microwave Society in 1953, and has been an active participant ever since. Some of his Adcom duties have included: Chairman, Editor of the Transactions, and National Lecturer. He was responsible for the creation of the MTT Historical Collection and is the Historian of the Society. He was elected an Honorary Life Member in 1974. He received the Centennial Medal of the IEEE in 1984, and was the first recipient of the MTT Distinguished Service Award in 1983. For several years, he has also been active on several IEEE Committees, including TAB, RAB and PUB. He was Chairman of the IEEE Public Information Committee, the TAB Finance Committee, and Electro. In 1987, he was elected a Fellow of the American Association for the Advancement of Science.

Mr. Saad was a member of the National Academy of Sciences Panel 272,000, advisory to the Radio Standards Engineering Division of the Institute for Basic Standards, National Bureau of Standards from 1967 through 1971. He was Chairman in 1969 and 1970.