



MARION E. HINES

#### 1972 MICROWAVE PRIZE RECIPIENT

The Awards Committee of the G-MTT ADCOM recently announced that Marion E. Hines is the 1972 Microwave Prize winner. Mr. Hines was awarded the Microwave Prize for his paper, "Reciprocal and Nonreciprocal Modes of Propagation in Ferrite Stripline and Microstrip Devices", published in the May 1971 issue of the IEEE Transactions on Microwave Theory and Techniques. The Prize is awarded on an annual basis to the author of the paper, published in the IEEE Transactions on Microwave Theory and Techniques, Proceedings of the IEEE, or other official IEEE publication, which is judged to be the most significant contribution in the field of interest of G-MTT.

Marion E. Hines is a graduate of the California Institute of Technology. He received the B.S. degree in Applied Physics in 1940 and the M.S. in 1946. He served as a Weather Officer with the Air Force from 1940 to 1945. With the Bell Laboratories from 1946 to 1960, he worked in Research and Development of microwave tubes and storage tubes; parametric amplifiers; pulse transmission systems; and tunnel diode amplifiers and oscillators. At Microwave Associates, he has been active in the development of harmonic generator type

microwave sources and high power microwave signal control devices using diode switch elements, and more recently in the development of amplifiers and oscillators using Avalanche and Gunn-effect diodes. At present, his title is Vice President, Research. He is a Fellow of the Institute of Electrical and Electronics Engineers.

#### The 1973 IEEE-GMTT INTERNATIONAL MICROWAVE SYMPOSIUM

Will be held at:

UNIVERSITY OF COLORADO  
BOULDER, COLORADO

STEERING COMMITTEE CHAIRMAN:

D. F. Waite

PUBLICITY AND GENERAL INFORMATION:

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TECHNICAL PROGRAM:

R. W. Beatty

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FINANCE:

J. E. Partch

LOCAL ARRANGEMENTS:

R. L. Gallawa

DIGEST LISTINGS:

A. J. Spano



Mr. William M. Magruder  
Special Assistant to the President  
presented  
"TECHNOLOGY AND NATIONAL GOALS"  
at The Symposium Banquet

CONGRATULATIONS TO OUR NEW FELLOWS

The following GMTT members were elected to the grade of FELLOW as of 1 January 1972:

DEAN B. ANDERSON, Orange County, CA

For contributions to optical waveguides and Optical parametric amplification.

R. L. BELL, San Francisco

For contributions to infrared photoemission.

R. E. COLLIN, Cleveland

For contributions to microwave engineering and to education.

B. C. DeLOACH, JR., North Jersey

For contributions to solid-state microwave power sources

G. I. HADDAD, S. E. Michigan

For contributions to solid-state and quantum electronic devices and engineering education.

MASARU IBUKA, Tokyo

For contributions to the development and application of solid-state devices in consumer and computer electronics.

K. C. KELLY, San Fernando Valley

For his contributions to antenna theory and design and to the profession in guiding youth and furthering equal opportunities.

P. PENFIELD, JR., Boston

For contributions to varactor theory and to the electrodynamic theory of moving media.

G. F. ROSS, Boston

For his contributions in the field of picosecond pulse technology and its applications to micro-wave-distributed network theory and high-resolution electromagnetic sensors.

Y. TAKEDA, Tokyo

For his inventive and educational contributions in manufacture, research, and development in the electronics industry.

H.E. THIEMANN, Switzerland

For contributions to projection television and leadership in electronic research and development.