Exhibit Gold and Silver Sponsors

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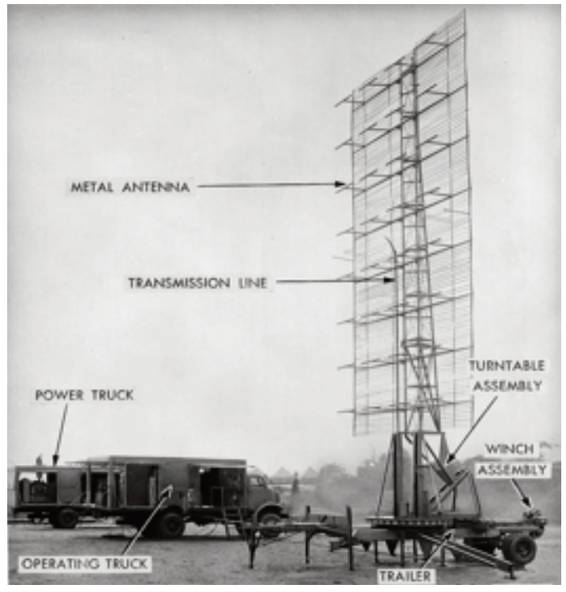
Historical Exhibit

The MTT-S Historical Exhibit will be open Tuesday through Thursday during the regular exhibition hours in the Exhibition Hall. The Historical Exhibit this year will include parts and photographs of the SCR 270 radar that detected Japanese warplanes on 7 December 1941. The MTT-S is fortunate to have Dr. Seymour Cohn contribute his laboratory notes that will be part of the exhibit. Also on display will be a collection of past IMS digests to commemorate the 50 years of this Symposium.

The Historical Electronics Museum is the permanent home of the MTT-S Historical Collection between Symposia. The Museum holds many microwave-related items besides the MTT-S collection, including a complete SCR-584 radar that was used with a proximity fuze in World War II. It also contains an impressive library of over 10,000 books and 11,000 journals. The Museum is located near Baltimore-Washington International Airport and is approximately 20 minutes from Baltimore. Additional information on the Museum can be found at www.hem-usa.org, or call 1-410-765-2345.



Model of the SCR-270 Radar located at Opana Point, Oahu, that detected the Pearl Harbor attacking planes 55 minutes prior to the attack on 7 December 1941.

MicroApps

The Microwave Application Seminars (MicroApps), inaugurated in 1996, serves as a forum for IMS exhibitors to present the technology behind their commercial products and their special capabilities. The presentations are 20 minutes in length and are open to all conference and exhibit attendees. Everyone who attends MicroApps will receive a free CD-ROM that includes informative details from every presentation. The MicroApps presentation room is located along the right-side wall when entering the Exhibition Hall, adjacent to the MTT-S Historical Exhibit.

Tuesday PM

TUMA
Packaging Processes

HCC Exhibition Hall

TUMA-1: Advances in Heatsink Design — 12:00
A. Zaghlol, R. Theta, Thermal Solutions

TUMA-2: Material Characterization — 12:20
D. Koether, IMST

TUMA-3: QFN Packaged High-Power Frequency Doubler for Microwave and Millimeter-Wave Systems — 12:40
S. Nam, F. Traut, Hittite Microwave

TUMA-4: R-Pak Quad Flat No-Lead (QFN) Microwave Air Cavity Liquid Crystal Polymer Packages — 13:00
J. Roman, RJR Polymers

TUMB
Subassemblies

TUMB-1: Zero-Chirp Transmission Performance in 1550nm Directly Modulated Microwave Laser Transmitters — 13:20
J. Iannelli, T. Wang, J. Li, H. Hou, Emcore Ortel

TUMB-2: RFID Synthesizers — 13:40
J. Bienstock, V. Losik, C. Weigand, Tyco M/A-Com

TUMB-3: Microwave Fiber Optic Links Solve the Problem of Remotely Locating Low-Noise Amplifiers — 14:00
H. Hausman, MITEQ

TUMC
Active Devices and Components

TUMC-1: Open — 14:20

TUMC-2: Large-Signal Models of Eudyna GaN HEMTs and Applications — 14:40
S. Sano, Eudyna Devices

TUMC-3: A 26–40 GHz Compact Millimeter Wave Power Amplifier — 15:00
C. Marchewka, C. Wan, J. Taylor, T. Schoemehl, C. Colombo, R. True, R. Watkins, T. Hargreaves, C. Armstrong, L-3 Comm EDD

TUMC-4: State-of-the-Art 6 bit mHEMT Phase Shifter — 15:20
A. Khalil, J. Lynch, F. Traut, Hittite Microwave

TUMC-5: 10 GHz Narrowband VCO — 15:20
M. Busse, Dielectric Labs, Vectron International, Mimix

Wednesday AM

WEMA
Mechanical and Passive Components
HCC Exhibition Hall

WEMA-1: Novel Structure of Bandpass Filter and Balun with Composite Right/Left-Handed Transmission Line — 09:20
Y. GuoSheng, Z. Jian, HT Microwave Co.,LTD.

WEMA-2: High-Power and Broadband Matched Bandpass/Bandstop Diplexers — 09:40
R. Hershtig, K&L Microwave

WEMA-3: Applications of Connectorless RF Connections in Microwave Multifunction Assemblies and Systems — 10:00
G. Mau, Custom Microwave

WEMA-4: Low Temperature Cofire Chip Antennas — 10:20
W. Wong, Johanson Technology

WEMA-5: Phase Shifters, Vector Modulators, Delay Lines, and Frequency Translators App Notes — 10:40
A. Baliotis, GT Microwave

WEMA-6: M/A-COM Surmount™ Chip-Scale PIN Switches Eliminate Plastic Package Parasitics and Chip-and-Wire Costs and Variability — 11:00
J. Brogle, Tyco M/A-Com

WEMA-7: Extending the Band of an All-Shunt PIN Diode Switch — 11:20
G. Mau, Custom Microwave

WEMA-8: A Monolithic High-Power High-Linearity, Multioctave PIN Diode T/R Switch — 11:40
T. Boles, J. Brogle, R. Hubert, Tyco M/A-Com

WEMA-9: A 200 W Switch for IED Applications — 12:00
G. Mau, Custom Microwave

WEMA-10: Design Criteria and Construction Techniques for Manufacturing Isolators and Circulators — 12:20
A. Edridge, R. Quintanilla, M2 Global Technology

WEMA-11: Passive Intermodulation Test of Isolators and Circulators — 12:40
S. Zheng, Yixin Microwave

Wednesday PM

WEMB
CAD and Modeling Products and Techniques
HCC Exhibition Hall

WEMB-1: Linear Microwave Fiber Optic Link System Design — 13:00
J. MacDonald, A. Katz, Linear Photonics

WEMB-2: Phase-Noise Cancellation in RF Transceivers — 13:20
R. Holtzman, Elisra Electronic Systems

WEMB-3: QuickWave Electromagnetic Software Adapted for Optical Defectoscopy of Integrated Circuits — 13:40
M. Celuch, QWED

WEMB-4: EMLOUNGE: A Modular Electromagnetic Simulation Environment — 14:00
K. Sabet, EMAG Technologies Inc.

WEMB-5: Real-Time Full-Wave EM Design Using FastEM Design Kit in IE3D Rel. 12 — 14:20
J. Zheng, Zeland Software, Inc.

WEMB-6: Accelerated FDTD Kernel Architecture — 14:40
W. Simon, IMST GmbH

WEMB-7: μWave Wizard — The Fast and Accurate CAD Solution for Passive Waveguide Components — 15:00
R. Beyer, Mician

WEMB-8: SEMCAD X Optimizer: Genetic Algorithm Based Optimization of CAD Derived Structures — 15:20
E. Ofli, N. Chavannes, SPEAG Zeughausstrasse

WEMB-9: Layout Automation and Extraction of Parasitic RF/Microwave Elements — 15:40
M. Heimlich, Applied Wave Research (AWR)

WEMB-10: Transient Signals in Digital RF Systems Exposed by Fast Spectral Transforms and Digital Phosphor Display — 16:00
K. Engholm, Tektronix

WEMB-11: A New Technique for Accurate On-Wafer RF Device Characterization — 16:20
J. Preston, SUSS MicroTec Test Systems

Thursday

THMA
Instrumentation and Measurement Technique
HCC Exhibition Hall

THMA-1: X-Band High Power Load-Pull System using Prematched Probes — 09:20
R. Meierer, V. Mallette, G. Boll, Focus Microwaves

THMA-2: High-Power Load Pull at 40 MHz using Low Frequency Tuners, LFT — 09:40
S. Dudkiewicz, V. Mallette, Focus Microwaves

THMA-3: Pulsed RF Power Measurement — 10:00
R. Theiss, Boonton Electronics

THMA-4: 0.8–8 GHz Multipurpose Tuner MPT-808-TC — 10:20
C. Tsironis, Dr. Ing, Focus Microwaves

THMA-5: The Effects of Harmonic Tuning on EVM — 10:40
S. Dudkiewicz, V. Mallette, Focus Microwaves

THMA-6: IEEE 802.16 WiMAX Receiver Testing — 11:00
B. Muro, Noisecom

THMA-7: Optimizing Phase Noise Testing Time for Phased Array Antenna Modules — 11:20
G. de Giovanni, Aeroflex

THMA-8: Real-time Correction in RF and Microwave Instrumentation — 11:40
Y. He, Tektronix

THMA-9: Optimizing Effective Bit Resolution for Ultra-Widebandwidth Applications through the use of Arbitrary FIR Filters in High-Speed Oscilloscopes — 12:00
D. McCarthy, Tektronix

THMA-10: AP3501 35 GHz Integrated Sampler — 12:20
U. Lott, J. Kucera, AnaPico Gerotron Comm.

THMA-11: High Speed 20 Hz–110 GHz Receiving System Configurable for Surveillance, EMC Testing, or General Measurement — 12:40
R. Webb, AR Receiver Systems