Calibration and Measurements of Ceramic Microstrip Circuits Using a Wafer Probe Station, J. Wallace & G. Ellis, Boeing

Time Domain Reflectometry Applied to MMIC Passive Component Modeling, Umberto Pisane, Politecnico Di Torino

Recent Trends in Microwave ATE Systems, Cliff Morgan, Texktronix

Automated T/R Module Testing for the Shuttle Imaging Radar, V. Hirsch & T. Miers, Ball Communications System Division

A Fully Automated Single Connection T/R Module Tester, G. Sloan & J. Simons, Sandia

High Throughput, Multi-function On-Wafer Test System, G. Lewis & R. Sweeney, ITT

Development of Waveguide Dual Six-Port Systems in the Range 18-50 GHz, C. Weil, et al, NIST

Noise Characterization System, Bill Pastori & Gary Simpson, Maury Microwave

General Purpose Automatic Microwave Measurements, Harold Steinhelfer, MADE-IT Associates

Waveguide Calibrationof Vector Automatic Network Analyzers, P. Gianfortune, et al, Maury Microwave

Nonlinear Analysis and Simulation of a FET Oscillator, Michael Odyniec, Hewlett Packard

CONFERENCE PLANNING

34TH CONFERENCE Nov. 30 & Dec. 1, 1989. It will be held at the Westin Cypress Creek Hotel in Fort Lauderdale, Florida. The topic for the conference is:

ON-WAFER TESTING - METHODS, CALIBRATION, MEASUREMENTS TIME & STANDARDS

The Conference Chairman is Frank Mendoza of TRW. If there are any questions regarding the conference, he can be reached at (213) 812-4666.

Abstracts of papers should be addressed to the Technical Program Chairman, Kevin Kerwin. Abstracts must be in by September 15th. Kevin works at Hewlett Packard, Santa Rosa. His address is:

1412 Fountain Grove Parkway Santa Rosa, CA 95403.

35TH CONFERENCE May 10 & 11, 1990
This conference is in conjunction with the MTT-S Symposium. The conference hotel will be the Hyatt Regency in Dallas. Mike Little is the Technical Program Chairman. Two possible topics were proposed: "High Accuracy Automated Measurements" and "Enhancing the Accuracy of Microwave Measurements". The decision was not made on which one to select.







AUTOMATIC RF TECHNIQUES GROUP

SPRING 1989

NUMBER 4

33RD ARFTG CONFERENCE HILITES

The 33rd Conference in conjunction with the MTTS Symposium was held in Long Beach, CA at the Sheraton Hotel. There were 122 attendees at the conference 88 pre-registered. George Oltman, acting as MTT-S liaison, did an excellent job in arranging all the activities for ARFTG. John Barr, ARFTG president, commended George for the outstanding work and presented him with a certificate of appreciation.

VICE PRESIDENT'S REPORT:

Jim Taylor proposed constitutional amendments to Articles III 1.e and III 2.c. These Articles deal with the required attendance of certain Executive Committee members at the meetings and the requirement of having a business meeting at each of the ARFTG semiannual meetings, respectively.

BEST PAPER:

The Best Paper was presented by George Sloan of Sandia National Laboratories. The title was "A Fully Automated Single Connection T/R Module Tester.

STANDARDS COMMITTEE:

Presently, there is a 7mm and a 2.9mm traveling kit available for the Measurement Comparison Program (MCP). There is also the possibility that Maury Microwave will contribute an "N" kit and that HP will donate a 3.5mm kit. Bob Judish will try to get measurements from four to five labs and present the results in Fort Lauderdale.

It was suggested that a charge be made for participation in the MCP. However, after some discussion the suggestion was revoked.

EXHIBITS COMMITTEE:

There were eight exhibitors at the 33rd Conference. This was a good response considering that the Spring conferences held after the MTT-S Symposium are only 1 1/2 days long instead of normal 2. Bill Pastori will put in extra effort to contact local reps in the attempt to attract more exhibitors.

AWARDS COMMITTEE:

The traditional awards banquet provided the means to acknowledge some of our colleagues who have demonstrated excellence in their fields of work. This time was no exception.

Gunther Sorger was presented the Career Award, S. Faris received the Technology Award and Glen Engen accepted the Technology Award which was given to him at the 31st Conference.

TREASURER'S REPORT:

Gary Simpson has taken over the duties as treasurer of ARFTG. His report consisted of three sections: the 32nd Conference financial summary, revenue collected and balances as of April 30, 89. It was proposed that the accounting procedure be changed to better reflect the true financial position.

NEW BUSINESS:

It was proposed by Gary Simpson to alter the membership fee procedure. After a lengthy discussion, the motion to accept the change was defeated. A committee was assigned to resolve the issues dealing with the collection of dues.

An IEEE standards subcommittee 378, for scattering coefficient measurements and instrumentation has been formed. It is a combination of two committees, Network Analysis and Measurement of Unbalanced Transmission Lines. John Barr, Gary Simpson and Peter Lacy are members of this subcommittee.

EXECUTIVE COMMITTEE NOMINATIONS:

At the next conference, the attendees will be voting for EXCOM members. The slate will be composed of three candidates and four incumbents. Jim Ratio, Jonathon Schepps and Mike Little are the nominees and the incumbents whose terms will expire are Frank Mendoza, Gary Simpson, Barry Perlman and Mark Roos.

The voting will take place during the business meeting segment of the conference. A short biography of each of the candidates will be made available.

TECHNICAL PAPERS:

The following papers were presented at the Long Beach Conference:

A Sixty GHz Test Fixture, Bill Oldfield, Wiltron

A Microstrip Fixture Design for Power GaAs Fets, Dick Lane, California Eastern Labs.