



AUTOMATIC RF TECHNIQUES GROUP

WINTER 1991

NUMBER 7

38TH ARFTG CONFERENCE HILITES

The Automatic RF Techniques Group held its 38th Conference in "sunny" San Diego at the picturesque Sheraton Harbor Island Hotel. With eighty-four attendees, the conference was a success as it has been for the last two years. The continuing topic, "On-Wafer Measurements III" drew participants from all areas of the country plus a few from other countries.

Al Rosenzweig of Microwave Technology was Conference Chairman. He did an outstanding job in making all the arrangements for this meeting. His Technical Program Chairman was Larry Dunleavy from the University of South Florida. The selection of papers was made from a group larger than could be accepted.

BUSINESS MEETING REPORT:

As required by the constitution, the business meeting was held on Thursday afternoon. Jim Taylor, President of ARFTG, called the meeting to order at 2:08PM.

EX-COMM ELECTION - Ray Tucker announced the withdrawal of Larry Dunleavy as nominee to the Executive Committee. Ray then introduced the remaining four candidates. The membership then voted and the following individuals were elected to the Executive committee.

Greg Burns
Bob Judish

Jim Taylor
Bill Pastori

TREASURER'S REPORT - Gary Simpson reported there were no numbers available for the MTT-S conference. Therefore, the financial status is incomplete.

As of October 31, 1991, there was a surplus reduction \$1,150.71 with a closing balance of \$17220.09. There was no discussion and the membership accepted the report.

STANDARDS COMMITTEE - Because of the interest in the Measurement Comparison Program (MCP), the Standards Committee Report presented by Greg Burns is provided in its entirety.

"The Standards Committee is pleased to report that the four Measurement Comparison Program (MCP) kits have been quite active. Since the start of this program in June 1989, with the type "N" kit, there have been a total of 49 completed sets of measurements on these kits. The current level of activity is:

Connector	Completed	Measurements	In the Que
Type 'N'	5		6
7 mm	17		4
3.5 mm	21		6
2.92 mm (K)	6		2

The completed measurements are those in which the measurement data have been installed in the data base and the results returned to the participants.

The total number of participants still in the queue is growing. There are no repeat measurements so far and none of the original participants have expressed an interest in repeating their measurements. It is worth noting that still in the queue are the national primary laboratories of: Australia, Belgium, Canada, the United Kingdom, and the United States. The interest in this program is significant and international. After the beginning of the year, the first of these of kits will be sent out of the country.

To date, the measurements have been in good agreement to the running average with the exception of a few that were too far from the norm to be of use. These measurements were excluded from the analysis to prevent skewing of the average. Since the agreements have been so good, Bob Judish is considering further refinements to the statistical treatment of the data."

If you would like to take part in the ARFTG Network Analyzer MCP, contact Bob Judish of NIST (303) 497-3380. Other programs are being discussed. If you have any ideas for the MCP, let the Standards Committee know.

Further Business - Jim Taylor described the one day format for the next conference. The banquet was announced for 7:30 PM. Without additional activity, the business meeting was closed at 2:27 PM.

AWARDS BANQUET

For their contributions and service, the ARFTG always takes time out to recognize individuals who are deserving of such attention. The most prestigious award, the Automated Measurement Career Award, was presented to Mario Maury for his contributions in the field of automated microwave measurements. The Service Award was awarded to Mark Roos for the work he has done for the group over the years. Certificates of Appreciation were presented to Allen (Bill) Rosenzweig and Larry Dunleavy for serving as Conference Chairman/Host and Technical Program Chairman, respectively, of the 38th Conference. David Brumfieldt and Somnath Mukherjee, co-authors, were presented the Best Paper Award of the 37th Conference. Their paper, A Novel Technique for Vector Measurements of Microwave Networks, was voted best by the membership.

BEST PAPER OF THE 38TH CONFERENCE

M.S. Shakoure, H. Matsuura, B.A. Auld and D.M. Bloom authored the paper selected as best for the 38th Conference. Entitled "Active Probes for Millimeter-Wave On-Wafer Measurements", the paper described the design and use of active probes above 65 GHz.

TECHNICAL PAPERS

Due to limited space, the technical papers will not be listed in this issue of the newsletter.

CONFERENCE PLANNING

39TH CONFERENCE June 5, 1992

It will be held in conjunction with the MTT-S Symposium in Albuquerque, New Mexico. The Conference hotel for ARFTG is the Holiday Inn-Pyramid. Please note that this conference is a one-day only event. John Barr, MTT-S Coordinator, reports that room availability may be limited during MTT and that all ARFTG attendees are encourage to use the Holiday Inn. This hotel is seven miles from the convention site and should not fill up too soon but John did say, "you have been warned". Bus service will be available between the hotel and the Convention Center during the MTT-S Symposium. The topic for the 39th meeting is:

"MEASUREMENT ACCURACY ISSUES-
HOW GOOD IS MY MEASUREMENT?"

If there are any question about the Conference, please contact the Chairman Mike Little at (315) 330-4381.

The Technical Program Chairman is John Rooks.

40TH CONFERENCE December 3rd & 4th, 1992

Chairperson.....Jim Rautio
Location.....Orlando, Florida
Topic.....TBD

41ST CONFERENCE June 1st-8th, 1993 (MTT)

Chairperson.....Jonathan Schepps
Location.....Atlanta, Georgia
Topic.....TBD

To those of you who made to the end, this TPQ* is offered for your enjoyment.

I have a glass half full of vinegar and another one half full of oil. I take one tablespoon of vinegar and pour it into the oil and stir the mixture. I then take one tablespoon of the mixture and pour it into the vinegar. The question: Is there more oil in the vinegar or more vinegar in the oil?

*Thought Provoking Question