

**1993 GaAs REL Workshop Program**  
**Sunday, October 10, 1993, Fairmont Hotel, San Jose, CA.**

SESSION 1 - MMIC & RF LIFE TESTING

Failure Measurements on MMIC Limiters Under Intense Pulses;  
R. Kaul (ARL) and J. McAdoo, W.M. Bollen, and W. Catoe (Mission Research Corp.).

Reliability Study of a New HFET Process; K. Decker, Texas Instruments.

Gradual Degradation Under RF Overdrive of Power GaAs FETS; Y.A. Tkachenko, et.al., Lehigh University.

W-Band Power MMIC Reliability Testing; J. Owens, ARL.

SESSION 2 - HEMT RELIABILITY TESTING

Non-Biased Reliability Evaluation of Power PHEMTs; C. Hanson, Motorola Semiconductor Products Sector.

High Reliability of Passivated 0.2  $\mu$ m LN HEMT MMICs;  
Y. Saito, K. Tan, D. Lo, B. Chan, and E. Rezek, TRW Space and Electronics Group.

20 GHz RF Life Test on GaAs Pseudomorphic Power HEMT;  
W.W. Hu, P.M. Smith, W.F. Kopp, and P. Ho, Martin Marietta Corporation.

Study of Ohmic Contacts to AlInAs/InGaAs HEMTs; N. Yoshida, et.al., Mitsubishi Electric Corporation.

SESSION 3 - TEST METHODS AND ANALYSES

A Novel DC Power Burn-in Circuit for GaAs FET Screening;  
E. Nahn and W.S. Green, Johns Hopkins University APL.

Measuring GaAs Temperatures: Round Robin Results; W. J. Roesch, TriQuint Semiconductor, Inc.

Failure Analysis of Life Tested Two-Stage MMIC Power Amplifiers;  
K.A. Christianson, J.A. Roussos, and W.T. Anderson, Naval Research Laboratory.

Finite Element Analysis of Millimeter Wave MMIC Packages Subjected to Temperature Cycling and Constant Acceleration; P. Yalamanchili and A. Christou, University of Maryland, CALCE Center.

SESSION 4 - RELIABILITY PROGRAMS

Review of HBT Structure, Applications, and Reliability; C. Lee and S. Kayali, Jet Propulsion Laboratory.

HBT Reliability Program; C. Huang, B. Bayrakturoglu, WPAFB and D. Williamson, Rome Laboratory.

NASA MMIC Reliability Assurance Program; S. Kayali, Jet Propulsion Laboratory.

MMIC Robust Design for Reliability; D. Williamson, Rome Laboratory.

GaAs Reliability Database; T. Sacco, S. Gonzalez, and S. Kayali, Jet Propulsion Laboratory.