

GOMACTech-14

Reliability, Remembering the Recipe

Embassy Suites, Charleston, SC 31 March – 3 April 2014

Final Call for Papers

Performance and reliability are crucial to modern defense systems that can have field lifetimes in far excess of twenty years, much longer than modern consumer electronics. Continuous advances in semiconductors and microsystems technologies are providing performance. At the same time, newer technologies, smaller feature sizes, and novel materials complicate the quest for reliability. These technology advances for microelectronics are imperative for developing trustworthy, high bandwidth, and high-speed, nano-scaled-electronics. Unfortunately these advances can also bring new reliability challenges, including new physics of failure so it is necessary to consider reliability from the beginning of the design process. GOMACTech-14 provides a forum for discussing and demonstrating advanced microelectronics and microsystems that can provide the means to develop confidence in transformational, leap-ahead technologies and capabilities. GOMACTech is the premier forum for reporting on government funded micro- circuit research and other research efforts that focus on the technology needs of government systems. It is an unclassified, export-controlled event. All registrants must provide proof of U.S. citizenship or permanent resident status and sign a non-disclosure statement prior to being permitted entry into the conference.

Technical Topic Areas

Space Processing

Reliability for Space Applications

Advances in Heterogeneous Integration

Advanced Packaging

Advanced Silicon/SiGe Devices and Circuits

Heterogeneous Integration Technologies

Rad Hard Designs, Technologies, and Materials

FPGA Security

Advanced Components for Electronic Warfare (ACE)

CMOS Reliability & Trust Assessment

Ultra-Low Power Embedded Computing

Progress in Graphene and other 2D Monolayer

Electronic Systems

Wide Bandgap Devices and Circuits

Advanced Phased Array Technology

Reconfigurable RF Technology

SiC and GaN Power Electronics

RF Photonics

Photonic Integration

SOA in Assessment and Progress of GaN Reliability

Assured and Reliable Microelectronics

Advanced Counterfeit Detection

Reverse Engineering

IARPA Circuit Analysis Tools (CAT)

Progress in Efficient and Linear GaN RF Transmitter

Technology

Reliability and Innovation for System Prototypes

Integrated Single-chip Transceivers

Electronic Abstracts Due	September 20, 2013
Author Notification of Acceptance	November 6, 2013
Final Paper Due	January 11, 2014

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