GOMACTech-12

Spanning the Spectrum: Innovations in Micro-Technologies for System Supremacy

Bally's Las Vegas, Nevada
March 2012

www.gomactech.net

Call for Papers

Conventional and emerging threats in this new global age bring cause to consider solutions to very tough problems to ensure the superiority of our systems. This year's theme of "Spanning the Spectrum" is intended to highlight recent innovations in micro-technologies and components that operate across the regions of the frequency spectrum that are of particular importance in defense applications, ranging from RF to X-ray. Over the last 50 years, continuous advances in micro-technologies have enabled a multitude of new capabilities that has had a huge societal impact and also revolutionized the military. As one result, sophisticated reliable, portable, smart communication devices are widely available across the globe at low cost. Leaders in commercial, academic and government sectors expect that the development of new materials, devices, and cost-effective production of miniaturized and integrated electronics, photonics, and sensors will continue to enable new capabilities for both consumer and defense systems in the future. The Government Microcircuit Applications and Critical Technology conference (GOMACTech 2012) focuses on advances, innovations, and customizations in miniaturization and integration technologies to deliver military/defense-relevant components with higher system performance at lower powers and costs.

GOMACTech is the premier forum for reporting on government funded microcircuit 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

- Nanoelectronics and Nanosensors
- Ultra-Low Power Technologies
- Photonic Technologies for RF & Sensor
- Advanced Non-Volatile Memory
- Advanced Digital Front-End Processors
- Novel RF, Millimeter Wave, & THz Technologies
- Advanced Component Security Technologies
- Microelectromechanical Systems (MEMS) Circuits & Devices
- Advanced Packaging & Interconnect Technologies
- Heterogeneous Integration Technologies
- Embedded Computing for Low Power High Performance Sensors
- Advanced Power Electronics: Materials, Devices, Circuits, Components
- Advanced Mixed Signal Techniques
- 3-D Integration
- Adaptive and Programmable Integrated Circuits
- Advanced Linear & High Power RF Amplifiers
- Integrated and Autonomic Microsystems
- Broadband and Multifunction RF Systems
- Radiation Hard Microelectronics Technologies
- Low Power, High Performance Microelectronics
- Electronics & Sensors for Extreme Environments
- Advanced Thermal Management Technologies
- Advanced Antennas and Arrays

• Electronic Abstracts Due http://www.gomactech.net/	September 2, 2011
• Author Notification of Acceptance	October 7, 2011
• Final Paper Due	January 6, 2012

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