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GOMACTech-08 Microsensor Technologies Enabling Information on Demand

The Riviera Hotel, Las Vegas, NV March 17 – March 20, 2008

Final Call for Papers

The development and proliferation of nanometer scale integrated electronics sensors embedded in government and commercial systems will create a world in which information access is ubiquitous and available on demand at anytime and from anyplace. The capability to communicate seamlessly throughout the world requires complex wired and wireless networks that utilize nano and micro-scale transducers that sense and interact with the physical environment. Development of secure, robust, intelligent sensor networks that deliver information instantaneously between urban and rural areas is also a necessary element for defending our homeland and protecting our national interests. Critical research in nano-circuit technologies is the prime driver for integrating and deploying cognitive sensors into miniature and large electronic systems for military, homeland defense, space systems, and medical applications. GOMACTech-08 highlights emerging highly innovative technologies that provide a bridge from the world today to the world tomorrow where information is available on demand everywhere.

A special student poster session will be held for students who are U.S. citizens. Students are encouraged to submit papers that address the Technical Topic Areas.

Technical Topic Areas

- Advanced Analog/Digital Front-End Processors and Components
- Advanced Packaging for RF Systems
- Autonomous Sensor Platforms
- Chip-Scale Avionics
- Communications Architecture and Electronics
 Issues for Condition Based Maintenance
- Component Reliability and Centers of Excellence
- Electronics for Extreme Environments
- Embedded Command and Control
- Enabling Trusted Microcircuit Solutions
- High Efficiency High Linearity Power Amplifiers
- Identification and Manipulation of RF Electronics
- Low Profile Antennas Using Meta Materials
- Microtechnologies for Medical Applications

- Nanotechnology for Systems
- Novel mm-Wave and THz Sources
- Nuclear Detection Technologies
- Power Electronics
- Progress in 3D-IC Technologies
- Radiation Hard Microelectronics
- Space Environment Modeling
- Space Environment Monitoring Missions
- Sub-Threshold Operation for Ultra-Low Power Circuitry
- Through the Wall Sensing
- Trusted Electronics Research
- Ultra-High Speed Transistors
- Ultra Low Power RF Transceivers
- Wide Bandgap RF Semiconductors
- Wide-Bandgap Oxide Materials

Electronic Abstracts Due http://www.gomactech.net/	September 14, 2007
Author Notification of Acceptance	October 19, 2007
Final Paper Due	January 7, 2008

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