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GOMACTech-11 Securing the Future through Rapid Technology Insertion Doubletree Hotel, Orlando, FL March 21 – March 24, 2011

Call for Papers

In June 1994, Defense Secretary William Perry issued a directive to maximize reliance on existing commercial off-the shelf (COTS) electronics and directed the armed forces to buy products and components from commercial sources. The decision was based on reducing acquisition cost and eliminating outdated procurement regulations to take advantage of the exponential increase in commercial microelectronics capabilities (Moore's law). While technologies have continued to reach subsequently smaller nodes, market forces have driven manufacturing, capital equipment, and design to overseas sources. Although domestic defense systems have benefitted from these technical advancements, these same enabling technologies are no longer solely available to the tactical advantage of the US and its allies. The nexus of integrated microsystems, systems-on-chip, and multiple viable semiconductor material systems presents new opportunities for functionality via heterogeneous integration (synthesis of dissimilar materials, circuits, and sub-systems). Design of these heterogeneously integrated microsystems will also require efficient small batch, custom, next generation design automation tools. The challenge of adaptive threats in the asymmetric paradigm drives the need for higher level integration and transition methodologies. GOMACTech-11 provides a forum for discussing and demonstrating advanced microelectronics that will provide these leap-ahead electronics technologies to gain an efficient tactical advantage. GOMACTech is the premier forum for reporting on government funded micro and nano-electronic research and complementary efforts that focus on the technology needs of government systems. GOMACTech 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

Design Issues in the Sub-32nm Regime Small Batch Microfabrication: Beyond MPWs Wireless Communications and Network Technologies Broadband Multifunction RF Systems Advanced Packaging Graphene Devices & Circuits Trustworthy Microelectronics Digital Waveform Synthesis High Power Transmitter Components RF Signal Reception and Control Technology Analog RF Signal Processing and Distribution Monolithic RF Circuits Multi-Chip Assemblies and Subsystems RF Support Infrastructure Technology	 Mixed-Mode RF Components Multi-Function/Reconfigurable Antenna Arrays Low-power High-speed Electronics On-Chip Power Management High Performance Signal Processing Radiation-Hard Device Technology Micro/Nano Electromechanical Devices & Circuits Power Electronics Semiconductor Materials and Processes Alternative Materials for Microelectronics/RF Components Novel Nanomaterials and Processes Materials for Elector-Optics Technologies for Flexible Electronics and Displays
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Electronic Abstracts Due http://www.gomactech.net/	September 3, 2010
Author Notification of Acceptance	October 15, 2010
Final Paper Due	January 14, 2011

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