



## MICROELECTRONICS INTEGRITY MEETING AGENDA

“TRUST: THE FUTURE IS NOW”

7 – 8 AUGUST 2018

JW MARRIOTT – INDIANAPOLIS, INDIANA



**Wednesday, 8 August 2018 – audience is OPEN to DoD, DoD Contractors, Academia, and Industry. U.S. Citizenship is REQUIRED.**

0800 **Day 2 Kickoff** – Mr. Brian Stuffle, Flight Systems Division Manager, Naval Surface Warfare Center, Crane Division, Crane Indiana

0810 **Keynote Speaker** – Dr. Tomas Diaz de la Rubia, Chief Scientist and Executive Director of Discovery Park, Purdue University

0830 **Panel 1: Strategic Alliance for Microelectronics**

Chair – Dr. Jeremy Muldavin, Deputy Director of Defense Software & Microelectronics Activities, Office of the Deputy Assistant Secretary of Defense for Systems Engineering

Microelectronics are at the core of the critical hardware that provides the DoD with overmatch capabilities against adversaries and the U.S. with commercial advantage and competitiveness. Economic trends are moving microelectronics manufacturing overseas, mainly to Asia, which introduces vulnerabilities into the supply chain and hinders the ability for the U.S. to manufacture advanced microelectronics and secure research and development (R&D) leadership in a domestic ecosystem. This two-part panel will investigate how to bring together the disparate infrastructure and application entities necessary to deliver assured microelectronics technologies.

**Speakers:**

- Mr. Michael Moore, Board Member and the EVP of Sales and Marketing, SkyWater Technology Foundry
- Mr. Serge Leef, Vice President of New Ventures, Mentor Graphics
- Mr. Michael Leibr, Vice President of Research and Executive Vice President, SUNY Polytechnic Institute
- Dr. Mark Gouker, Assistant Head of the Advanced Technology Division for MIT
- Mr. Tom Sharpe, Vice President, SMT Corporation

1030 **Break**

1045 **Panel 2: Collaborative Efforts on Counterfeit Mitigation**

Chair – Mr. Fred Schipp, Counterfeit Electronics Parts SME, Naval Surface Warfare Center, Crane Division, Crane Indiana

This panel will share information on various government-related collaborative efforts, including investigative work to prosecute counterfeit part traffickers, analysis of novel counterfeit electronic part detection systems, and database development to make hardware and software assurance more efficient.



**Speakers:**

- Mr. David Via, Air Force Research Lab, " ASessment of Second order Effects SystemS (ASSESS)"
- Mr. Tom Davison, Noetic Strategies, "Assurance Information Sharing Across the DoD"
- Ms. Ann-Kathryn So, NCIS, "Operation Chain Reaction - An OCR 101"
- Ms. Diana Clemmons, National Intellectual Property Rights Coordination Center (NIPRCC), "Operation Chain Reaction – An OCR 101"

1215 **Break for Lunch**

1345 **Special Topic – OTA—** Mr. Ben McMartin, The United States Army Tank Automotive Research, Development and Engineering Center (TARDEC)

1445 **Panel 3: Microelectronics for DoD systems: State of the Art**

Chair – Dr. Daniel DeLaurentis, Director of the Institute for Global Security and Defense Innovation, Purdue University

The variety of architectures, technologies, and mission requirements for microelectronics in military applications is staggering. This variety, together with the overarching needs for trust and reliability, presents a significant challenge in determining the most promising foundational science and engineering concepts essential for refresh of existing and design of new microelectronics. This panel will provide an overview of some relevant state of the art technologies and the research challenges remaining to make them, or yet to be discovered ones, fit for use in the most challenging mission environments.

**Speakers:**

- Prof. Ashraf Alam, Jai N. Gupta Professor of Electrical and Computer Engineering, Purdue University
- Prof. Joerg Appenzeller, Barry M. and Patricia L. Epstein Professor of Electrical and Computer Engineering, Purdue University
- Prof. Peter Bermel, Associate Professor of Electrical and Computer Engineering, Purdue University
- Ganesh Subbarayan, Professor of Mechanical Engineering, Purdue University and Reinhardt Schuhmann Jr. Professor of Materials Engineering, Purdue University

1615 **Special Topic –** Indiana Innovation Institute –Dr. Bill Kiser or General (ret.) Victor E. Renuart

1645 **Poster Winners Announced**

1700 **Adjourn**

**To be displayed throughout the day:**

- Poster Session –University Outreach in Microelectronics
  - Poster Session-Government Employees displaying work in Microelectronics
  - CAD Tool Display—Matt Sale, Electrical Engineer, NSWC Crane
- Vendors:** Mentor, Real Intent, Cadence, Nimbis, Onespin and Synopsys

