



MICROELECTRONICS INTEGRITY MEETING AGENDA

“TRUST: THE FUTURE IS NOW”

7 – 8 AUGUST 2018

JW MARRIOTT – INDIANAPOLIS, INDIANA



Tuesday, 7 August 2018 – audience is LIMITED to DoD and DoD Contractors ONLY

0700 **Registration**

0800 **Introductions** – CAPT Mark H. Oesterreich, Commanding Officer, Naval Surface Warfare Center, Crane Division, Crane Indiana
The Honorable Eric J. Holcomb, Governor of Indiana

0815 **Welcome** – Dr. Brett Seidle, SES, Technical Director, Naval Surface Warfare Center, Crane Division, Crane Indiana

0830 **Keynote Speaker** – Dr. Joye Purser, Representative from the Office of the Department of Defense

0900 **Panel 1: Microelectronics Used in Smart Autonomous Systems**

Chair - Brett Hamilton, SSTM Trusted Microelectronics, Distinguished Scientist for Trusted Microelectronics, Naval Surface Warfare Center, Crane Division, Crane Indiana

According to the Boston Consulting Group's research, urban and autopilot will each add about \$5,500 to a car's price tag. You can have a car that parks itself for an extra \$2,000. If you want full autonomy-the ability to drive anywhere, with no human input-get ready to add \$10,000 to the price tag (<https://www.wired.com/2015/04/cost-of-sensors-autonomous-cars/>). This panel will discuss the benefits and bearers in leveraging such commercial technology for DoD unmanned aerial vehicle (UAV) and unmanned underwater vehicles (UUV) use with a focus on the microelectronics requirements.

Speakers:

- Dr. Carl E. McCants, Technical Director, Supply Chain and Cyber Directorate (SCD), National Counterintelligence and Security Center
- Dr. Amy Wagoner, IT Specialist, WXQD, Naval Surface Warfare Center, Crane Division, Crane Indiana
- Mr. Steve Orrin, Federal CTO for Intel Corporation.

1030 **Break**

1045 **Panel 2: Counterintelligence Support to Trusted and Assured Microelectronics**

Chair - Mr. Adam Hauch, Counterintelligence Analyst, DSS

Identifying and mitigating adversarial threats is a critical component of Trusted and Assured Microelectronics. In the last few decades, the DoD has largely shifted from custom electronic components to commercial off-the-shelf (COTS) components; in



response, foreign intelligence services, political or terrorist groups, criminals, and private interest groups that may wish the United States harm have also adjusted their methods and attack vectors. This panel provides different perspectives of organizations and how they approach this evolving threat picture.

Speakers:

- Mr. Michael Lyden, Air Force Office of Special Investigations
- Mr. Brian D'Ambrosio, Defense Criminal Investigative Services
- Mr. Joshua Tolk, Air Force Office of Special Investigations

1215 **Break for Lunch**

1345 **Special Topic – Strategic Radiation Hardened Electronics Council (SRHEC)**— Mr. Jeff Johann, Chief Engineer for the Global Deterrence & Defense Department, Naval Surface Warfare Center, Crane Division, Crane Indiana

1415 **Panel 3: Strategic Radiation-Hardened Technology Development, Testing & Qualification Chair – Dr. Matthew Gadlage, Senior Engineer, Naval Surface Warfare Center, Crane Division, Crane Indiana**

In the upcoming years, our nation's nuclear deterrence is planned to undergo an expansive modernization. A key enabling technology for these next generation deterrent systems will be radiation-hardened microelectronics. In an era where the cost of maintaining a semiconductor fab can be prohibitively expensive, coupled with an aging radiation test infrastructure, new and innovative approaches to obtaining and qualifying rad-hard microelectronics are essential. This panel will discuss the challenges and opportunities associated with rad-hard microelectronics for our next generation strategic systems.

Speakers:

- Dr. Steven Van Dyk (SES) Strategic Systems Program (Tech Trends for Next Gen System)
- Dr. Matthew Halstead, Naval Surface Warfare Center, Crane Division, Crane Indiana (SRH Testing Facilities)
- Dr. Dale McMorro, Naval Research Lab, (Rad-Hard Technology Development)

1545 **Special Topic – Kelly Hennig, National Defense Industrial Association (NDIA)**

1615 **Counterfeit Intel Controllers in Uninterruptible Power Supplies** –Special Agent Joseph Diebert, Defense Criminal Investigative Services (DCIS)

1630 **Conclude Day 1**

1630 **Indiana Innovation Institute Overview followed by Social/Networking** –Hosted by Indiana Innovation Institute <http://in3indiana.com/>

