



WORKSHOP: FHE FOR DEFENSE APPLICATIONS

JUNE 12-13, 2019 • ARLINGTON, VIRGINIA



Sponsored and Hosted by:

LOCKHEED MARTIN



Wednesday, June 12, 2019

8:00am – 8:30am	Registration and Breakfast
8:30am – 8:40am	Welcome by <i>Scott Miller, Director of Strategic Programs, NextFlex</i>
8:40am – 9:10am	Welcome by <i>Robert A. Gold, Director, Technology and Manufacturing Industrial Base, Office of the Under Secretary of Defense for Research and Engineering</i>

Session I: Microelectronics Assembly and Packaging: Advanced Manufacturing, Security, and the U.S. Supply Chain

9:10am – 9:20am	Session I Introduction by <i>Dan Hines, Scientist, Laboratory for Physical Sciences</i>
9:20am – 9:40am	<i>Peter Phelps, Engineer, Department of Defense</i>
9:40am – 10:00am	<i>Pradeep Lall, Ph.D., Professor, Mechanical Engineering and Director, NSF-CAVE3 Electronics Research Center, Auburn University</i>
10:00am – 10:20am	<i>Wilfried Bair, Director of Engineering, NextFlex</i>
10:20am – 10:40am	Coffee Break
10:40am – 11:00am	<i>Mary Herndon, Ph.D., Engineering Fellow, Raytheon</i>
11:00am – 11:20am	Session I Panel Discussion
11:30am – 1:30pm	Lunch

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Session II: Missiles & Munitions: Design, Manufacturing, Sensing, Logistics, Condition-based Monitoring, and Long-term Reliability

1:30pm – 1:40pm	Session II Introduction by <i>Craig Herndon, Program Manager, DoD Executive Agent for PCBs, NSWC Crane Division</i>
1:40pm – 2:00pm	<i>Bruce Hughes, Lead FHE Engineer, Army Combat Capabilities Development Command (CCDC)</i>
2:00pm – 2:20pm	<i>Jim Zunino, Materials Engineer, Army Combat Capabilities Development Command (CCDC)</i>
2:20pm – 2:40pm	<i>Jason Jouet, Ph.D.(acting) Director, Munitions, Platforms & Weapons, Office of the Under Secretary of Defense R&D</i>
2:40pm – 3:00pm	<i>Kenneth Church, Ph.D., Chairman and CEO of nScrypt, Inc. and founder of Sciperio, Inc.</i>
3:00pm – 3:20pm	Coffee Break
3:20pm – 3:40pm	<i>Jimmy Baccam, CID, Senior Electro-Mechanical Engineer, Lockheed Martin MFC</i>
3:40pm – 4:00pm	<i>Johnnie Hobbs, Lead Systems Analyst, Parsons / MDA</i>
4:00pm – 4:20pm	Session II Panel Discussion
4:20pm – 4:30pm	Day One Wrap-Up by <i>Scott Miller, Director of Strategic Programs, NextFlex</i>
4:30pm – 6:30pm	Networking Reception at the Lockheed Martin Space Experience Center

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Thursday, June 13, 2019

8:00am – 8:30am	Registration and Breakfast
8:30am – 8:40am	Welcome by <i>Scott Miller, Director of Strategic Programs, NextFlex</i>

Session III: Command, Control, and Communications, and High-Power RF

8:40am – 8:50am	Session III Introduction by <i>Steve Gonya, Lockheed Martin Fellow, Lockheed Martin</i>
8:50am – 9:10am	<i>Tom Goodwin, Antenna Engineering Manager, SI2 Technologies</i>
9:10am – 9:30am	<i>Dr. Jimmy Hester, Ph.D. candidate, Georgia Institute of Technology (Manos Tentzeris, Ken Byers Professor in Flexible Electronics, Georgia Institute of Technology)</i>
9:30am – 9:50am	<i>Dr. Steven Weiss, Lead Engineer for the Antenna Research, Army Research Lab</i>
9:50am – 10:10am	<i>Dr. Mark Mirotznik, Professor of Electrical and Computer Engineering, The University of Delaware</i>
10:10am – 10:30am	Coffee Break

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Session III: Command, Control, and Communications, and High-Power RF (continued)

10:30am – 10:50am	<i>William Brower, Deputy Project Manager, U.S. Army PEO-Soldier</i>
10:50am – 11:10am	<i>John Williams, Ph.D, Associate Technical Fellow, Advanced Electromechanical Technologies (AET), Boeing Research and Technology</i>
11:10am – 11:30am	<i>Joseph P. Jendrisak, RF Engineer Sr. Staff, Lockheed Martin Rotary and Mission Systems</i>
11:30am – 11:50am	<i>Bill Joo, Science and Tech APM and WAMS Engineer, SPAWAR</i>
11:50am – 12:20pm	Session III Panel Discussion
12:20pm – 12:40pm	Conclusions and Next Steps by Session Chairs and the Department of Defense
12:40pm – 1:30pm	Lunch (Optional 100 Moments of Lockheed Martin Tour)
1:30pm – 3:30pm	Technical Breakout Sessions <i>(For NextFlex Members and Government Only)</i>
3:30pm – 4:00pm	Technical Breakout Results