

### **18th Annual** Science & Engineering **Technology Conference**

Creating Innovative DoD S&T Partnerships

### Agenda

April 18-20, 2017 National Defense University Washington, DC

#### LOCATION

National Defense University Abraham Lincoln Hall 300 5th Avenue, SW Fort Lesley J. McNair Washington, DC 20319-5066

#### ATTIRE

Appropriate dress for the conference is business for civilians and Class A uniform or uniform of the day for military personnel.

#### **ID BADGE**

During conference registration and check-in, each attendee will be issued an identification badge. Please be prepared to present a valid picture ID. Badges must be worn at all conference functions.

#### **SPEAKER DONATION**

In lieu of speaker gifts, a donation will be made to the Fisher House Foundation. For additional information, please visit:

http://www.fisherhouse.org

### **CONFERENCE THEME**

Creating Innovative DoD S&T Partnerships

Over the past 20 years, the U.S. Armed Forces have seen challenges to our technological superiority. We now live in a world where there is global access to technology and scientific talent. Our adversaries have watched the way we fought in Iraq and Afgahnistan and the way we are fighting ISIL today. They have seen our newest equipment, watched our tactics and procedures, and observed our latest concepts of operation; and they are using this knowledge to to develop counters to our asymmetric advantages.

Sustaining U.S. technological superiority depends on our ability to out-innovate our adversaries, but it is also important to remember innovation is more than the development of leading-edge technology. It is about finding the right combination of technologies and operational and organizational constructs to achieve a decisive military advantage. The right combination of technologies may very well be a combination of technologies developed by the DoD Science and Technology program, commercial technologies, technologies developed through the Defense Industrial Base through their Independent Research and Development Programs (IR&D), and through the Small Business Innovation Research (SBIR) programs.

This year's conference is structured to allow for maximum Government and industry interaction opportunities. To facilitate compliance with the recent DoD IR&D policies, there is a specific track for individual company one-on-one IR&D presentation sessions with the appropriate DoD officials. In addition, there will be classified Combatant Command Science and Technology presentations and presentations by representatives from the DoD Science and Technology Communities of Interest (COIs), who will provide updates on the COI technology roadmaps as well as representatives being available for private one-onone sessions.

This is an inclusive conference, open to both Defense and Commercial companies and businesses of all sizes. Representatives for academic institutions are also invited to attend.

### TUESDAY, APRIL 18, 2017

7:00 AM - 5:00 PM	<b>Registration Open</b> Lobby
7:00 AM - 8:00 AM	<b>Networking Breakfast</b> Lincoln 1104 & 1106

8:00 AM - 8:10 AM	<ul> <li>Welcoming Remarks</li> <li>Lincoln Hall Auditorium</li> <li>Mr. James Chew, Group Director, National Security Systems, Cadence Design Systems; Chair, NDIA S&amp;ET Division</li> <li>General Craig R. McKinley, USAF (Ret), President and CEO, NDIA</li> </ul>	CONFERENCE CONTACT Ms. Tara deCamp Meeting Planner, NDIA (703) 247-2554 tdecamp@ndia.org SPONSORSHIP CONTACT
8:10 AM - 8:20 AM	<ul> <li>NDU Welcome</li> <li>Lincoln Hall Auditorium</li> <li>BG Paul H. Fredenburgh III, USA, Commandant, ES, NDU</li> </ul>	Ms. Allison Carpenter, CEM, CMP Associate Director, Sponsorship, NDIA (703) 247-2573 ahcarpenter@ndia.org
8:20 AM - 9:20 AM	<ul> <li>Keynote Address</li> <li>Lincoln Hall Auditorium</li> <li>Ms. Mary Miller, Acting Assistant Secretary of Defense for Research and Engineering</li> </ul>	<b>ADVERTISING CONTACT</b> Advertise in <i>National Defense</i> magazine and increase your organization's exposure. <i>National</i>
9:20 AM - 12:30 PM	<b>Opportunities for Collaboration Session</b> Lincoln Hall Auditorium <b>Session Chair:</b> Dr. Raj Aggarwal, President & CEO, RK Global Technology Consulting, LLC	Defense will be distributed to attendees of this conference, as well as other NDIA events. For more information, please contact: Ms. Kathleen Kenney
9:20 AM - 9:50 AM	Networking Break: COI Posters Open Lincoln 1104 & 1106	<i>Director, Sales</i> , NDIA (703) 247-2576 kkenney@ndia.org
9:50 AM - 10:20 AM	<ul> <li>Prototyping: A Path to Agility, Innovation, and Affordability</li> <li>Lincoln Hall Auditorium</li> <li>Dr. Charles Perkins, Acting Deputy Assistant Secretary of Defense, Emerging Capability &amp; Prototyping</li> </ul>	<b>DIVISION CHAIR</b> Mr. James Chew <i>Group Director, National Security</i> <i>Systems</i> , Cadence Design Systems <i>Chair</i> , NDIA S&ET Division
10:20 AM - 10:50 AM	<ul> <li>The DoD Test &amp; Evaluation / Science &amp; Technology Program</li> <li>Lincoln Hall Auditorium</li> <li>Mr. George Rumford, Test &amp; Evaluation/ Science &amp; Technology Program Manager, Defense Test Resource Management Center</li> </ul>	<b>NDIA EVENTS</b> Please visit the NDIA website for a complete listing of the events we offer. www.ndia.org/events
10:50 AM - 11:50 AM	<ul> <li>The DARPA Science &amp; Technology Program</li> <li>Lincoln Hall Auditorium</li> <li>Dr. Stefanie Tompkins, Acting Deputy Director, DARPA</li> </ul>	J
11:50 AM - 12:30 PM	The DTRA Science & Technology Program and Counter WMD COI Lincoln Hall Auditorium • Dr. Steven Wax, Chief Scientist, J9, DTRA	

12:30 PM - 1:30 PM	Networking Lunch Lincoln 1104 & 1106
1:30 PM - 5:00 PM	<b>Service Science &amp; Technology Programs Session</b> <i>Lincoln Hall Auditorium</i> <b>Session Chair:</b> Mr. Jeffrey D. Singleton, <i>Director for Technology</i> , Office of the Deputy Assistant Secretary of the Army (Research & Technology)
1:30 PM - 2:30 PM	<ul> <li>The Army Science &amp; Technology Program</li> <li>Lincoln Hall Auditorium</li> <li>Dr. Thomas P. Russell, Deputy Assistant Secretary of the Army (Research &amp; Technology)</li> </ul>
2:30 PM - 3:30 PM	<ul> <li>The Naval Science &amp; Technology Program</li> <li>Lincoln Hall Auditorium</li> <li>Dr. Walter Jones, Executive Director, ONR</li> </ul>
3:30 PM - 4:00 PM	Networking Break: COI Posters Open Lincoln 1104 & 1106
4:00 PM - 5:00 PM	<ul> <li>The Air Force Science &amp; Technology Program</li> <li>Lincoln Hall Auditorium</li> <li>Mr. Jack Blackhurst, Director, Plans and Programs Directorate, Air Force Research Laboratory; Director, Air Force Strategic Development Planning and Experimentation Office</li> </ul>
5:00 PM	Adjourn & Closing Remarks Lincoln Hall Auditorium
5:15 PM - 6:30 PM	Networking Reception (Hosted Beer & Wine) South Atrium

### WEDNESDAY, APRIL 19, 2017

7:00 AM – 5:00 PM Registration Open

Lobby

7:00 AM - 8:00 AM Networking Breakfast Lincoln 1104 & 1106

### 8:00 AM - 8:10 AM Opening Remarks Lincoln Hall Auditorium Mr. James Chew, Group Director, National Security Systems, Cadence Design Systems;

- Chair, NDIA S&ET Division
- 8:10 AM 3:50 PM Lincoln Hall Auditorium Session Chair: Dr. Michelle Atchison, Associate Vice Chancellor, Federal Relations, University of Texas System

8:10 AM - 8:30 AM	The Role of the Communities of Interest Lincoln Hall Auditorium
	<ul> <li>Mr. Dale Ormond, Principal Director to Deputy Assistant Secretary of Defense (Research)</li> </ul>
8:30 AM - 8:50 AM	Advanced Electronics COI Presentation
	Lincoln Hall Auditorium <ul> <li>Dr. Gerald Borsuk, Chief, Advanced Electronics COI, Naval Research Laboratory</li> </ul>
8:50 AM - 9:10 AM	Air Platforms COI Presentation
	<ul> <li>Lincoln Hall Auditorium</li> <li>Dr. Joseph Doychak, Associate Director, Aerospace Technology, OUSD(AT&amp;L)/ OASD(R&amp;E)/Research/Weapons Systems</li> </ul>
9:10 AM - 9:30 AM	Space COI Presentation
	Lincoln Hall Auditorium <ul> <li>Dr. Thomas Cooley, Senior Scientist for SSA, AFRL</li> </ul>
9:30 AM - 9:50 AM	Materials & Manufacturing Processes COI Presentation
	Lincoln Hall Auditorium <ul> <li>Dr. Timothy Bunning, Chief Scientist, Materials &amp; Manufacuring Directorate, AFRL</li> </ul>
9:50 AM - 10:20 AM	Networking Break: COI Posters Open Lincoln 1104 & 1106
10:20 AM - 10:40 AM	Biomedical (ASBREM) COI Presentation
	<ul> <li>Lincoln Hall Auditorium</li> <li>Dr. George Ludwig, US Army MEDCOM USAMRCM</li> </ul>
10:40 AM - 11:00 AM	Weapons Technologies COI Presentation
	Lincoln Hall Auditorium <ul> <li>Dr. David Lambert, Chief Scientist, Munitions Directorate, AFRL</li> </ul>
11:00 AM - 11:20 AM	Ground & Sea Platforms COI Presentation
	Lincoln Hall Auditorium <ul> <li>Dr. Jennifer Hitchcock, Executive Director, Systems Integration &amp; Engineering, TARDEC</li> </ul>
11:20 AM - 11:40 AM	Autonomy COI Presentation
	Lincoln Hall Auditorium <ul> <li>Dr. Larry Schuette, Director of Research, ONR</li> </ul>
11:40 AM - 12:00 PM	Command, Control, Communications, Computers, and Intelligence COI Presentation
	<ul> <li>Lincoln Hall Auditorium</li> <li>Dr. Stephen Russell, Chief Technology Officer, Space and Naval Warfare Systems Command</li> </ul>
12:00 PM - 1:00 PM	Networking Lunch Lincoln 1104 & 1106

1:00 PM - 1:20 PM	<ul> <li>Information Analysis Center Multiple Award Contract</li> <li>Lincoln Hall Auditorium</li> <li>Tom Gillespie, DTIC</li> </ul>
1:20 PM - 1:40 PM	<ul> <li>Counter-IED COI Presentation</li> <li>Lincoln Hall Auditorium</li> <li>Dr. Karl Dahlhauser, Associate Director for Electronic Warfare, ASD(R&amp;E)/RD/Space and Sensors</li> </ul>
1:40 PM - 2:00 PM	<b>Cyber COI Presentation</b> Lincoln Hall Auditorium • Dr. Bharat Doshi, Senior Research Scientist (Cyber Security), US Army CERDEC
2:00 PM - 2:20 PM	<ul> <li>Energy and Power Technology COI Presentation</li> <li>Lincoln Hall Auditorium</li> <li>Dr. David Drazen, Staff Specialist, OASD (R&amp;E), Energy &amp; Power Technology</li> </ul>
2:20 PM - 2:40 PM	Engineered Resilient Systems Presentation Lincoln Hall Auditorium • Mr. David Richards, Engineer Research and Development Center
2:40 PM - 3:10 PM	Networking Break Lincoln 1104 & 1106
3:10 PM - 3:30 PM	<ul> <li>Human Systems COI Presentation</li> <li>Lincoln Hall Auditorium</li> <li>Dr. John Tangney, ONR</li> </ul>
3:30 PM - 3:50 PM	<ul> <li>Sensors COI Presentation</li> <li>Lincoln Hall Auditorium</li> <li>Dr. Michael Grove, Acting Director, CERDEC-NVESD</li> </ul>
3:50 PM - 5:00 PM	<ul> <li>Trusted Micro Electronics Session</li> <li>Lincoln Hall Auditorium</li> <li>Session Chair: Mr. Daniel Marrujo, Chief Strategy Officer, Defense Microelectronics</li> <li>Activity</li> <li>Mr. Mike Russo, Director &amp; Corporate Lead, U.S. Government Affairs, Globalfoundries</li> <li>Mr. Adam Hauch, Counterintelligence Analyst, Defense Security Service</li> <li>Dr. Linton Salmon, Program Manager, DARPA</li> </ul>
5:00 PM	Adjourn for the Day
9:00 AM - 5:00 PM	<b>TRACK 1: Industry One-on-One IR&amp;D Presentations</b> Track 1 will run concurrent with the above COI presentations. Attendance will be limited to government employees only. A separate detailed agenda for IR&D will be developed once industry participation has been determined.

### THURSDAY, APRIL 20, 2017

7:00 AM - 2:30 PM	Registration Open Lobby
7:00 AM - 8:00 AM	Networking Breakfast Lincoln 1104 & 1106
8:00 AM - 8:20 AM	<ul> <li>Opening Remarks</li> <li>Lincoln Hall Auditorium</li> <li>Mr. James Chew, Group Director, National Security Systems, Cadence Design Systems; Chair, NDIA S&amp;ET Division</li> </ul>
8:20 AM - 2:30 PM	How Capabilities Are Developed and Delivered to the Combatant Commanders (Classified) Lincoln Hall Auditorium Session Chair: Mr. James Chew, Group Director, National Security Systems, Cadence Design Systems; Chair, NDIA S&ET Division
8:20 AM - 9:00 AM	<ul> <li>USCENTCOM</li> <li>Mr. Martin Drake, Science Advisor, USCENTCOM</li> </ul>
9:00 AM - 9:30 AM	<ul> <li><b>USSOCOM</b></li> <li>Mr. David Saren, <i>Deputy Director, Science and Technology</i>, USSOCOM</li> </ul>
9:30 AM - 10:00 AM	<ul> <li><b>USPACOM</b></li> <li>Mr. Mike Jones, <i>Science Advisor</i>, USPACOM</li> </ul>
10:00 AM - 10:30 AM	Networking Break: COI Posters Open Lincoln 1104 & 1106
10:30 AM - 11:00 AM	<ul> <li><b>USEUCOM</b></li> <li>Mr. Michael McGuinness, <i>Science &amp; Technology Advisor</i>, USEUCOM</li> </ul>
11:00 AM - 11:30 AM	<ul> <li>USTRANSCOM</li> <li>Mr. Lou Bernstein, Research, Development, Test &amp; Evaluation Program Director, USTRANSCOM</li> </ul>
11:30 AM - 12:00 PM	<b>USAFRICOM</b> <ul> <li>Mr. C. Van Anderson, <i>Science &amp; Technology Advisor</i>, USAFRICOM</li> </ul>
12:00 PM - 1:00 PM	Networking Lunch Lincoln 1104 & 1106
1:00 PM - 1:30 PM	<b>USNORTHCOM</b> <ul> <li>Col Paula Hamilton, USAF, <i>Director, Science &amp; Technology</i>, USNORTHCOM</li> </ul>
1:30 PM - 2:00 PM	Electronic Warfare COI Presentation Lincoln Hall Auditorium • Mr. Marvin Potts, Senior Advisor, AFRL/RYW

8:10 AM - 2:00 PM	<b>TRACK 2: Industry One-on-One IR&amp;D Presentations</b> Lincoln Hall Classrooms
2:00 PM - 2:15 PM	<ul> <li>Closing Remarks</li> <li>Lincoln Hall Auditorium</li> <li>Mr. James Chew, Chair, NDIA Science &amp; Engineering Technology Division; Group Director, National Security Systems, Cadence Design Systems</li> </ul>

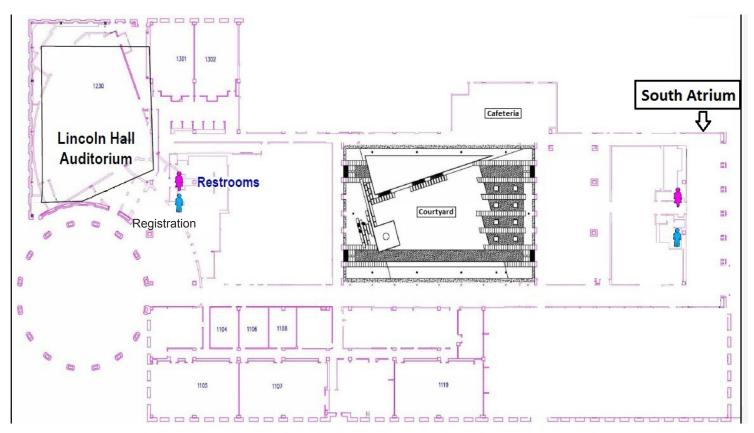
2:15 PM Conference Adjourns

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Meals will be set in rooms 1104 and 1106. Seating will be available in rooms 1105, 1107, and 1119.

### NDIN

#### Roster - As of April 14, 2017

**Chuck Abernethy** Aerojet Rocketdyne

**Dr. Raj Aggarwal** RK Global Technology Consulting, LLC

Saahil Agrawal Lockheed Martin Corporation

**Peter Anderson** Office of the Deputy Secretary of the Army (Research & Technology)

C. Van Anderson USAFRICOM

COL Gary Arnold, USA (Ret) USSTRATCOM

**Dr. Michelle Atchison** University of Texas

**Glenn Ayers** SRI International

Bob Baker OASD(R&E)/OSD

John Beatty OASD-R&E Weapons Systems

**Raj Bedi** Intel Corporation

**COL Thierry Belloeil** NATO HQ Supreme Allied Commander Transformation

CAPT Lou Bernstein, USN (Ret) USTRANSCOM

Giorgio Bertoli I2WD

**Dr. Van Blackwood** Air War College

**Dr. Jeff Boleng** Carnegie Mellon University Software Engineering Institute

**Eleonora Bonaccorsi** William J. Perry Center for Hemispheric Defense Studies

Dr. Gerry Borsuk NRL

Charles Botello USAF

**Megan Bowers** William J. Perry Center for Hemispheric Defense Studies

Lt Col Sean Bradley, USAF ATL/EC&P/CTO

**Gregg Brinegar** ONR **Dr. Joe Broz** SRI International

**Dr. Scott Bukofsky** Global Foundries

Dr. Timothy Bunning AFRL/Materials & Manufacturing Directorate

Ted Burke The Boeing Company

**Dr. Bradley Burns** Logos Technologies, LLC

**Claire Burt** British Defence Staff

LTC Kirk Burton, USA (Ret) Byte Cubed

**Dr. Jim Campbell** AMC/REDECOM/CERDEC/Night Vision & Electronic Sensors Directorate

**Pete Carrigan** The MITRE Corporation

Christina Chao RDECOM-ARDEC

Maria Chaparro Center for Hemispheric Defense Studies

Dave Chesebrough

James Chew Cadence

Johnna Childs DTIC

Dr. Henry Chu Idaho National Laboratory

Tony Colucci Lockheed Martin Corporation

**Dr. Thomas Cooley** AFRL

**Ed Cooper** L3 Fuzing & Ordnance Systems

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Sean Cummings Kaman Aerospace Corporation

Jess Curtis AFRL/RW

**Dr. Karl Dahlhauser** ASD(R&E)

Christine Dail DTIC

**Dr. Shamik Das** The MITRE Corporation **Daniel DeLaurentis** Purdue University

Dr. Diane DiEuliis WMD Center, NDU

Mike Dodd i-GSDI Purdue Univeristy

Harry Dorsey NDU

**Dr. Bharat Doshi** U.S. Army CERDEC

**Ed Dottery** Alakai Defense Systems

**Art Dougas** E3 Federal Solutions, LLC

Col George Dougherty, USAF SAF/AQR

Dr. Joe Doychak OASD (R&E) Research Weapons Systems

Martin Drake USCENTCOM

Dr. David Drazen OASD (R&E) Energy & Power Technology

Chris Eastman Lockheed Martin Corporation

**Dr. Owen Eslinger** Engineer Research & Development Center

**CAPT Paul Essig, USN (Ret)** L3 Technologies Brashear

**Dr. Marty Falk** Defense Acquisition University

**Dr. David Fanning** Lockheed Martin Missiles and Fire Control

Dr. Ronald Ferguson The MITRE Corporation

**Jordan Fitzpatrick** GE Global Research

Lt Col Stephen Ford, USAF NDU

**Doug Freitag** Bayside Materials Technology

**Dr. Mike Fritze** Potomac Institute for Policy Studies

Simon Gadd British Embassy

**Dr. Santosh Gangwal** Southern Research Institute

Col Roger Garay, USMC (Ret) DTIC

18TH ANNUAL SCIENCE & ENGINEERING TECHNOLOGY CONFERENCE APRIL 18-20, 2017

CAPT John Gearhart, USN ONR

LtCol Thomas Gillespie USMC (Ret) DTIC

Javier Gomez The Tauri Group

Joseph Gordon SAF/AQRT

**Dr. Bob Grabowski** The MITRE Corporation

Dr. Mike Grove U.S. Army AMC RDECOM CERDEC NVESD

Col Paula Hamilton, USAF USNORTHCOM

Patrick Hanley Lockheed Martin Corporation

Adam Hauch Defense Security Service

**Dr. Charles Havasy** The MITRE Corporation

**Dan Herway** Idaho National Laboratory

**Dr. Dee Hidalgo** Lockheed Martin Corporation

**Dr. Fran Hill** U.S. Army Engineer Research Development Center

**Dr. Jennifer Hitchcock** TARDEC

Dr. Myron Hohil ARDEC PEO AMMO

**McDonald Homer** U.S. Agency for International Development

**Dr. Jason Huff** Lockheed Martin Corporation

**Dr. Rusty Husar** Telephonics Corporation

**Col Bobby Hutt, USAF** Assistant Secretary of Defense (Research & Engineering), USD (AT&L)

**Dr. Keoki Jackson** Lockheed Martin Corporation

Mike Johns Southern Research Institute

Dr. Walter Jones ONR

Mike Jones USPACOM

**Renee Jung** Naval Surface Warfare Center Crane Division **Molly Just** The Avascent Group

**Dr. Avinash Kane** Rockwell Collins

David Kerner The Tauri Group

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**Will Kirkman** The MITRE Corporation

Christine Klein NDIA

**Dr. Gary Klein** The MITRE Corporation

John Knutson HQ NORAD & USNORTHCOM

John Kormash GE Aviation

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Kyle Lampela DTRA

Bob LaPolice U.S. Army RDECOM-TARDEC

**Chris Lasmanis** OUSD(AT&L)/International Cooperation

Dr. Joe Lawrence

**Jim Ledesma,** The Boeing Company

**Rick Lewis,** Lockheed Martin Corporation

Shayna Liebler DTIC

Marcus Lingenfelter National Math + Science Initiative

Dr. George Ludwig U.S. Army MEDCOM USAMRCM

Michael Lupton The Tauri Group

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**Lt Col Dave Lyle, USAF (Ret)** Lockheed Martin Corporation

**Daniel Majurro** Defense Microelectronics Activity

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Dr. Rick McClelland AFRL/XPT Bill McCluskey SAF/AQR

Michael McGuinness USEUCOM

LTC Clay McGuyer, USA DTRA-JIDO

Gen Craig McKinley, USAF (Ret) NDIA

**CDR Rob Medve, USN (Ret)** Trenchant Analytics, LLC

Brendan Melley NDU

Lanny Merkel Rockwell Collins

**Guinevere Meyer** U.S. Technology Leadership Council

**Susan Miles** BAE Systems

Mary Miller OUSD AT&L

Dr. Bala Mulloth NDU

John Murphy United Technologies Research Center

**Dr. Pavan Narsai** Lockheed Martin Advanced Technology Center

Nicolas Nemil DTIC

**Jeff Nissen** Bell Helicopter Textron

Dr. Patrick Nolan EXCET, Inc.

Brigid O'Hearn Air Force Personnel Center

**Dr. Jeffrey Okamitsu** Physical Sciences, Inc.

Joseph Oliver DTIC

Dale Ormond, DASD Research (R)

Dr. Charles Perkins OUSD/AT&L/EC&P

Lt Col John Pernot, USAF OASD (R&E)

**Dr. Bruce Peters** Torch Technologies, Inc.

Sharothi Pikar OASD (R&E)

**Mike Pizzuto** E3 Federal Solutions, LLC

Marvin Potts AFRL/RYW

LTC Frank Rainer Prautzsch, USA (Ret) NPS - Remote Sensing Center

**Dr. Elizabeth Prescott** MD5 National Security Technology Accelerator

**Dr. Dave Pustai** Lockheed Martin Corporation

Mary Raffa, The MITRE Corporation

John Randazzo SmartUQ, LLC

**Dr. Sailaja Raparla** Raytheon Company

Jean Reed NDU

Brian Rehard DTIC

**Jeff Ribel** E3 Federal Solutions, LLC

David Richards Engineer Research and Development Center

**Evan Rolfe** The Avascent Group

Brent Ross Bell Helicopter Textron

George Rumford Test Resource Management Center

**Dr. Tom Russell** ASA(ALT)

Dr. Steve Russell Space & Naval Warfare Systems Command

Mike Russo Globalfoundries

**Dr. Linton Salmon** DARPA

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Katie Smith Strategic Analysis, Inc.

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Max Spivak William J. Perry Center for Hemispheric Defense Studies

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**Dr. Larry Stotts** U.S. Technology Leadership Council

CAPT Scott Sundt, USN (Ret) DoD HPCMP CREATE

**Dr. Paul Syers** Potomac Institute for Policy Studies

**Mary Sylvia** Naval Undersea Warfare Center, Div., Newport

**Dr. John Tangney** ONR

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Amy Taylor DTIC **Christopher Thomas** DTIC

**Dr. Val Thomas** Engineer Research and Development Center, Army Corp of Engineers

**Dr. Stefanie Tompkins** DARPA

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Michael Zecca U.S. Army ARDEC