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# 20<sup>TH</sup> ANNUAL **SCIENCE AND ENGINEERING** TECHNOLOGY CONFERENCE

**Enabling the National Defense Strategy  
Through Science & Technology**

April 2 – 4, 2019 | San Diego, CA | [NDIA.org/SET19](http://NDIA.org/SET19)

## TUESDAY, APRIL 2

### 7:00 am – 5:45 pm **REGISTRATION**

RIO VISTA FOYER

### 7:00 – 8:00 am **CONTINENTAL BREAKFAST**

RIO VISTA FOYER

### 8:00 – 8:30 am **WELCOME REMARKS**

RIO VISTA BALLROOM

#### James Chew

Chair, NDIA Science & Engineering Technology Division  
Group Director, Aerospace and Defense, Cadence Design Systems

#### General Hawk Carlisle, USAF (Ret)

President and CEO, NDIA

#### RADM Christian Becker

Commander, SPAWAR  
*Invited*

## OUSD (R&E) DIRECTOR KEYNOTES

RIO VISTA BALLROOM

### 8:30 – 9:15 am **Focus of the DoD S&T Program and the FY 2020 DoD S&T Budget Request**

**Dr. Milan (Mitch) Nikolich**  
Director of Defense Research & Engineering (Research & Technology)

### 9:15 – 10:00 am **Prototyping, Integration and Open Architecture Development**

**James Faist**  
Director of Defense Research & Engineering (Advance Capabilities)

### 10:00 – 10:30 am **NETWORKING BREAK AND DISPLAYS/POSTERS OPEN**

RIO VISTA PAVILION

## SESSION 1: FY 2020 PRESIDENT'S BUDGET REQUEST AND OPPORTUNITIES FOR COLLABORATION

RIO VISTA BALLROOM

#### Dr. Raj Aggarwal

Session Chair  
President & CEO, RK Global Technology Consulting, LLC

### 10:30 – 11:00 am **NAVAL INFORMATION WARFARE CENTER – PACIFIC**

**Christopher Raney**  
Deputy Executive Director/Technical Director, Naval Information Warfare Center - Pacific

### 11:00 – 11:30 am **THE DOD TEST & EVALUATION / SCIENCE & TECHNOLOGY PROGRAM**

**George Rumford**  
Test & Evaluation/Science & Technology Program Manager, Defense Test Resource Management Center

### 11:30 am – 12:00 pm **DEFENSE INNOVATION UNIT – COMMERCIAL INNOVATION**

**Steve Butow**  
Space Portfolio Director

### 12:00 – 1:00 pm **NETWORKING LUNCH**

WEST LAWN

### 1:15 – 1:45 pm **DEFENSE THREAT REDUCTION AGENCY (DTRA)**

**Dr. Rhys Williams**  
Director, Research & Development, Defense Threat Reduction Agency

### 1:45 – 2:30 pm **STRATEGIC ASSESSMENT AND TECHNOLOGY FUTURES**

**George Galdorisi and Rachel Volner**  
Corporate Strategy Group, Naval Information Warfare Center - Pacific

## SESSION 2: SERVICE SCIENCE & TECHNOLOGY PROGRAMS

RIO VISTA BALLROOM

#### Mark Stephen

Session Chair  
Strategic Technology Development, Lockheed Martin Missiles & Fire Control

### 2:30 – 3:15 pm **THE ARMY SCIENCE & TECHNOLOGY PROGRAM**

**Dr. Thomas Russell**  
Deputy Assistant Secretary of the Army (Research & Technology)

### 3:15 – 4:00 pm **NETWORKING BREAK AND DISPLAYS/POSTERS OPEN**

RIO VISTA PAVILION

### 4:00 – 4:45 pm **THE NAVAL SCIENCE & TECHNOLOGY PROGRAM**

**Dr. David Walker**  
Research and Development Director, ONR

### 4:45 – 5:15 pm **THE AIR FORCE SCIENCE & TECHNOLOGY PROGRAM**

**Jeffrey Stanley**  
Deputy Assistant Secretary of the Air Force (Science, Technology, and Engineering)

### 5:15 – 7:15 pm **NETWORKING RECEPTION**

RIO VISTA PAVILION

## WEDNESDAY, APRIL 3

7:00 am – 5:00 pm **REGISTRATION**  
RIO VISTA FOYER

7:00 – 8:00 am **CONTINENTAL BREAKFAST**  
RIO VISTA PAVILION

8:00 – 8:15 am **WELCOME REMARKS**  
RIO VISTA BALLROOM  
**James Chew**  
Chair, NDIA Science & Engineering Technology Division  
Group Director, Aerospace and Defense, Cadence Design Systems

### CONCURRENT SESSIONS

#### COI PRESENTATIONS

RIO VISTA PAVILION

**Robert Baker**  
Session Chair

Select CoI representatives will be presenting in the Rio Vista Pavilion throughout the day. See separate schedule of presentations.

#### DOD S&T PRIORITY AREAS

RIO VISTA BALLROOM

**Dr. Michelle Atchison**  
Session Chair

Presentations from the Assistant Directors in the Office the Undersecretary for R&E addressing the advanced technology priorities of the Department.

8:00 – 8:30 am **The Role of the Communities of Interest**  
**Mr. Dale A. Ormond**  
Director, Science and Technology, OUSD (R&E)

8:00 – 8:15 am **Welcome Remarks**  
**Dr. Michelle Atchison**  
University of Texas System

8:30 – 8:55 am **Space**

8:15 – 9:00 am **Microelectronics**  
**Nicole Petta**  
Assistant Director for Microelectronics  
*Invited*

8:55 – 9:20 am **Air Platforms**

9:00 – 9:45 am **Cyber**  
**Sharothi Pikar**  
Assistant Director for Cyber  
*Invited*

9:20 – 9:45 am **Advanced Electronics**  
**Dr. Romeo Del Rosario**  
Associate Director, Sensors & Electron Devices  
Directorate, U.S. Army Research Laboratory

9:45 – 10:15 am **NETWORKING BREAK AND DISPLAYS/POSTERS OPEN**  
RIO VISTA PAVILION

10:15 – 10:35 am **Counter WMD  
Materials & Manufacturing Processes**

10:15 – 11:00 am **Quantum Science**  
**Paul Lopata**  
Assistant Director for Quantum Science

10:35 – 10:55 am **Biomedical**

10:55 – 11:15 am **Weapons Technologies**  
**David E. Lambert, PhD, ST**  
Chief Scientist, Munitions Directorate, Air Force  
Research Laboratory

11:00 – 11:45 am **Directed energy**  
TBD

11:15 – 11:35 am **Ground & Sea Platforms**  
**Alfred Grein**  
Army Futures Command

11:35 am – 12:00 pm **Autonomy**  
**Jean-Charles Lede**  
AFMC AFOSR

12:00 – 1:00 pm **NETWORKING LUNCH**  
WEST LAWN

1:00 – 1:25 pm **Engineered Resilient Systems**

1:00 – 1:45 pm **Machine Learning/Artificial Intelligence**  
**Matthew Daniels**  
Assistant Director for Machine Learning and  
Artificial Intelligence  
*Invited*

1:25 – 1:50 pm **Cyber**

1:50 – 2:15 pm **Electronic Warfare**  
**Jeffrey Boksiner**  
Army Futures Command

1:45 – 2:30 pm **Networked C3**  
**Michael Zatman**  
Assistant Director for Networked C3  
*Invited*

2:15 – 2:35 pm **Energy and Power Technology**

2:30 – 3:00 pm **NETWORKING BREAK AND DISPLAYS/POSTERS OPEN**  
RIO VISTA PAVILION

3:00 – 3:25 pm **C4I**  
**Mark Linderman**  
AFMC AFRL

3:00 – 3:45 **Space**  
**Dean Ridgely**  
Assistant Director for Space  
*Invited*

3:25 – 3:50 pm **Human Systems**

3:45 – 4:30 pm **Autonomy**  
**Wayne Nickols**  
 Assistant Director for Autonomy  
*Invited*

10:30 – 11:15 am **USSOUTHCOM**  
**Dr. Andrew Higier**  
 OUSD (R&E) LNO to SOUTHCOM

3:50 – 4:15 pm **Sensors and Processing**  
**Dr. James Campbell**  
 Army Futures Command

11:15 am – 12:00 pm **USTRANSCOM**  
**Lou Bernstein**  
 TRANSCOM RDT&E Program Director

**THURSDAY, APRIL 4**

**SEPERATE REGISTRATION REQUIRED**

**Classified Session at the Admiral Kidd Conference Center, Naval Base Point Loma**

12:00 – 1:00 pm **NETWORKING LUNCH**  
 LOCATION

1:00 – 1:45 Pm **USSTRATCOM**  
**Phil Hezeltine**  
 Science & Technology Advisor, USSTRATCOM  
*Invited*

7:00 am – 2:45 pm **REGISTRATION OPEN**

7:00 – 8:00 am **CONTINENTAL BREAKFAST**

1:45 – 2:30 pm **USNORTHCOM**  
**Col Gregg Jerome, USAF**  
 Chief, J8 Science and Technology, NORAD and USNORTHCOM  
*Invited*

8:00 – 8:10 am **WELCOME REMARKS**

**James Chew**  
 Chair, NDIA Science & Engineering Technology Division  
 Group Director, Aerospace and Defense, Cadence Design Systems

2:30 - 3:15 pm **USEUCOM**  
**Stephen Spehn**  
 Deputy Science Advisor, USEUCOM

**SESSION 4: CAPABILITIES NEEDED BY THE COMBATANT COMMANDERS**

**Roger Garay**  
 Session Chair  
 Enterprise Portfolio Analyst, Defense Technical Information Center

3:15 – 3:45 pm **HYPERSONICS**  
**Michael White**  
 Assistant Director for Hypersonics, OUSD (R&E)

8:10 – 8:30 am **HOW CAPABILITIES ARE DEVELOPED AND DELIVERED TO THE COMBATANT COMMANDERS**

3:45 – 4:00 pm **CLOSING REMARKS**  
**James Chew**  
 Chair, NDIA Science & Engineering Technology Division  
 Group Director, Aerospace and Defense, Cadence Design Systems

8:30 – 9:15 am **USCENTCOM**  
**Martin Drake**  
 Science Advisor, USCENTCOM

9:15 – 10:00 am **USINDOPACOM**  
**Cynthia Holland**  
 Science Advisor, USINDOPACOM

10:00 – 10:30 am **NETWORKING BREAK**

The NDIA has a policy of strict compliance with federal and state antitrust laws. The antitrust laws prohibit competitors from engaging in actions that could result in an unreasonable restraint of trade. Consequently, NDIA members must avoid discussing certain topics when they are together at formal association membership, board, committee, and other meetings and in informal contacts with other industry members: prices, fees, rates, profit margins, or other terms or conditions of sale (including allowances, credit terms, and warranties); allocation of markets or customers or division of territories; or refusals to deal with or boycotts of suppliers, customers or other third parties, or topics that may lead participants not to deal with a particular supplier, customer or third party.