

NDIA

2018 CYBER-AUGMENTED OPERATIONS DIVISION FALL CONFERENCE

OPERATIONALIZING THE TECHNICAL ADVANTAGE



November 1, 2018

The MITRE Corporation

McLean, VA

[NDIA.org/CAO18](https://www.ndia.org/CAO18)

TABLE OF CONTENTS

WHO WE ARE 2

EVENT INFORMATION 3

AGENDA 4

THANK YOU TO OUR SPONSORS ... 6

BIOGRAPHIES..... 7



NDIA

WHO WE ARE

The National Defense Industrial Association is the trusted leader in defense and national security associations. As a 501(c)(3) corporate and individual membership association, NDIA engages thoughtful and innovative leaders to exchange ideas, information, and capabilities that lead to the development of the best policies, practices, products, and technologies to ensure the safety and security of our nation. NDIA's membership embodies the full spectrum of corporate, government, academic, and individual stakeholders who form a vigorous, responsive, and collaborative community in support of defense and national security. For more information, visit NDIA.org



CYBER-AUGMENTED OPERATIONS DIVISION

WHO WE ARE

The Cyber-Augmented Operations Division focuses on harnessing the power of cyber-related technologies (such as high-speed processing, agile spectrum electronics and information algorithms) to deliver speed and automation to create both tactical and operational advantages in military operations. CAO technologies will expand as innovators reveal the potential for cyberspace beyond support for intelligence and traditional military operations.

LEADERSHIP AND COMMITTEES

Lt Gen Robert Elder, USAF (Ret)
Division Chair

Maj Gen David Senty, USAF (Ret)
Vice Chair

Brig Gen Guy Walsh, USAF (Ret)
Advisor

EVENT INFORMATION

LOCATION

The MITRE Corporation
 MITRE 1 Building
 7525 Colshire Drive
 McLean, VA 22102

EVENT WEBSITE

NDIA.org/CAO18

EVENT THEME

Operationalizing the Technical Advantage

ATTIRE

Civilian: Business
 Military: Uniform of the day

SURVEY AND PARTICIPANT LIST

You'll receive via email a survey and list of attendees (name and organization) after the conference. Please complete the survey, which helps make our event even more successful in the future.

EVENT CONTACT

General Event

Reneé Despot
 Meeting Manager
 (703) 247-2599
rdespot@ndia.org

Agenda

Daniel Lung
 Program Coordinator, Program Development
 (703) 247-9476
dlung@ndia.org

PLANNING COMMITTEE

Lt Gen Robert Elder, USAF (Ret)
 Event Chair

Maj Gen David Senty, USAF (Ret)

Brig Gen Guy Walsh, USAF (Ret)

SPEAKER GIFTS

In lieu of speaker gifts, a donation is being made to the Fisher House Foundation.

HARASSMENT STATEMENT

NDIA is committed to providing a professional environment free from physical, psychological and verbal harassment. NDIA will not tolerate harassment of any kind, including but not limited to harassment based on ethnicity, religion, disability, physical appearance, gender, or sexual orientation. This policy applies to all participants and attendees at NDIA conferences, meetings and events. Harassment includes offensive gestures and verbal comments, deliberate intimidation, stalking, following, inappropriate photography and recording, sustained disruption of talks or other events, inappropriate physical contact, and unwelcome attention. Participants requested to cease harassing behavior are expected to comply immediately, and failure will serve as grounds for revoking access to the NDIA event.

AGENDA

THURSDAY, NOVEMBER 1

7:00 am – 3:00 pm **REGISTRATION**
FOYER OF ROOM 1H220

7:00 – 8:00 am **NETWORKING CONTINENTAL BREAKFAST**
FOYER OF ROOM 1H220

8:00 – 8:15 am **WELCOME REMARKS**
ROOM 1H220
Lt Gen Robert Elder, USAF (Ret)
Chair, NDIA Cyber-Augmented Operations Division

8:15 – 9:15 am **KEYNOTE SPEAKER**
ROOM 1H220
Maj Gen Robert E. Wheeler, USAF (Ret)
Senior Executive Advisor, Avascent Global Advisors

9:15 – 10:15 am **TRAINING FOR OPERATIONS IN CONTESTED
CYBER ENVIRONMENTS PANEL**
ROOM 1H220
Brig Gen Guy Walsh, USAF (Ret)
Advisor, NDIA Cyber-Augmented Operations Division
Moderator
Col Adam Volant
Commander, 91st Cyber Brigade, Virginia National Guard
Col Kevin Campbell, USAF (Ret)
Founder and Managing Partner, Patriot Group
Col William Hutchison, USAF (Ret)
Founder and CEO, SimSpace Corporation
Dr. Ron Alford
Senior Autonomous Systems Engineer, The MITRE Corporation

10:15 – 10:45 am **NETWORKING BREAK**
FOYER OF ROOM 1H220

10:45 – 11:45 am

CYBER–ELECTRONIC WARFARE PANEL

ROOM 1H220

Maj Gen Jim Keffer, USAF (Ret)

Director, Cyber, Lockheed Martin Corporation

Moderator

David Cox

Chief, Global Ballistic Missile Defense (GBMD) Prototyping and Experimentation Branch

U.S. Army Space and Missile Defense Command (SMDC)

Bill Urrego

Department Chief Engineer, The MITRE Corporation

Jose Negrón

CEO and President, AVANTI Technologies

11:45 am – 1:00 pm

LUNCH ON YOUR OWN

MITRE CAFETERIA

1:00 – 1:45 pm

KEYNOTE SPEAKER

ROOM 1H220

Ronald Pontius

Deputy to the Commanding General, U.S. Army Cyber Command

1:45 – 2:45 pm

AGILE SPECTRUM OPS/ELECTRONIC WARFARE APPLICATIONS PANEL

ROOM 1H220

Dr. John Stine

Department Head Operations Research Department, The MITRE Corporation

Moderator

RADM Matt Klunder, USN (Ret)

Vice President, DoD Strategy and Technology, Harris Corporation

Lizy Paul

Director, Business Development, Rockwell Collins

2:45 – 3:15 pm

NETWORKING BREAK

Foyer of Room 1H220

3:15 – 4:15 pm

**CYBER–AUGMENTED OPS TECHNOLOGY APPLICATIONS:
COMMUNICATIONS, NAVIGATION AND SURVEILLANCE IN CONTESTED
ENVIRONMENTS PANEL**

ROOM 1H220

Lt Gen Robert Elder, USAF (Ret)

Chair, NDIA Cyber-Augmented Operations Division
Moderator

Bryan Bartels

Chief, Future Capabilities and Operations, Joint Air Component Coordination Element (JACCE),
U.S. Strategic Command (USSTRATCOM)

Dr. Thomas “TJ” Walls

Research Physicist, Naval Research Labs (NRL)

Greg Makrakis

Engineering Lead, Naval Air Warfare Center Aircraft Division (NAWCAD)

4:15 – 4:30 pm

CLOSING REMARKS

ROOM 1H220

Lt Gen Robert Elder, USAF (Ret)

Chair, NDIA Cyber-Augmented Operations Division

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.

THANK YOU TO OUR SPONSORS



BIOGRAPHIES



MAJ GEN ROBERT E. WHEELER, USAF (RET)

Senior Executive Advisor
Avascent Global Advisors

Major General Robert E. Wheeler has spent a majority of his life serving the Nation

and protecting what it stands for throughout the world. His experience encompasses all facets of combat flying operations, cyber, electronic warfare, nuclear operations, command and control (C2), communications as well as international negotiations. He also has broad leadership and budgeting experience at the Secretary of Defense staff level, interagency, Congress, White House, as well as with our international partners. He is skilled at bringing together unique capabilities and new technologies into novel strategic constructs and shepherding them through the DoD processes.

As the former DoD Deputy Chief Information Officer for Command, Control, Communications/Computers (C4) at the Office Secretary of Defense he was responsible for leading cyber security modernization and standardization in critical legacy National Security Systems while managing many of the Nation's most sensitive communications programs. He also led and executed the DoD's largest spectrum auction in U.S. history with industry, White House and Congress.

Major General Wheeler graduated from the University of Wisconsin with a Bachelor's degree in Industrial Engineering and has been awarded three separate Master's degrees. He was commissioned in the United States Air Force in 1984. After pilot training he went on to become a combat pilot in the B-52 and B-2. A command pilot with more than 5,000 hours and seven operational commands including Wing Commands in the two largest bomber wings in the US Air Force. Under his leadership, B-2 bombers from the 325th Bomb Squadron were the first group to strike targets in Afghanistan on record breaking 40+-hour combat sorties during the first days of Operation Enduring Freedom.

Retired in March of 2016, after 32 years of service, Major General Wheeler continues serving his country by advising various senior advisory panels and advocating on issues of national importance.

He served in multiple staff assignments including air campaign analyst for the Air Force Studies and Analysis Agency, and division chief for the Joint Chiefs of Staff for European security issues. In addition, he was the senior military adviser to the U.S. Mission Vienna, Austria for the Organization for Security and Cooperation Europe (OSCE) and served as the senior US military representative to the NATO command & control, communications and cyber board.



RONALD PONTIUS

Deputy to the Commanding General
U.S. Army Cyber Command

Mr. Ronald W. Pontius serves as the Deputy to the Commanding General, U.S. Army

and organizational concepts, and oversees strategic support planning and resourcing strategy to enable the Army to achieve the right mix of cyber capabilities for the future.

Prior to his current assignment, Mr. Pontius served as the Director for Command and Control (C2) and Intelligence, Surveillance, and Reconnaissance (ISR) within the Office of the Undersecretary of Defense for Acquisition, Technology and Logistics (USD(AT&L)), providing functional and acquisition oversight for all C2 and ISR programs across the Department of Defense (DoD). Prior to this, Mr. Pontius served as the Director of Executive Programs at the Defense Acquisition University School of Program Managers. In this capacity he mentored senior Program Managers and Program Executive Officers in the art of successfully leading and managing major defense acquisition programs and major automated information systems. Prior to these assignments, Mr. Pontius had a distinguished military career in the U.S. Army Signal Corps with over 26 years of operational and major acquisition assignments.

Cyber Command. In this capacity, he manages and provides strategic direction to all aspects of Army Cyber Command and 2nd Army operations to include planning, coordinating, integrating, synchronizing and supervising organization efforts for the conduct of full spectrum Cyberspace operations to include DoD Information Network (DODIN) operations, Defensive Cyberspace Operations (DCO) and Offensive Cyberspace Operations (OCO). Mr. Pontius serves as a Senior Advisor, providing authoritative expert advice on all aspect of Cyberspace operations, force structure

Mr. Pontius holds a Bachelor's of Science degree in Electrical Engineering and Business Administration from Carnegie-Mellon University, a Master's of Science degree in Business Administration from Boston University, and a Master's degree in National Resource Strategy from the Industrial College of the Armed Forces, National Defense University.

SAVE THE DATE



2018 CYBER-AUGMENTED OPERATIONS DIVISION SPRING CONFERENCE

Learn about the most significant technological trends that affect military operations at the NDIA Cyber-Augmented Operations Division Spring Conference, March 26-27, at the AT&T Hotel and Conference Center in Austin, TX. Experts will cover key issues such as Cyber-EW Applications, Artificial Intelligence, Virtual Training Systems, and more.

CALL FOR ABSTRACTS

Call for Technical Abstracts and Demonstrations will be opening soon! Visit NDIA.org/Events for more information.

March 26 – 27, 2019

AT&T Hotel and Conference Center
at The University of Texas at Austin
NDIA.org/Events

