



NDIA



23RD ANNUAL
**SCIENCE &
ENGINEERING**
TECHNOLOGY CONFERENCE

How DoD S&T Applies to the Mission and Beyond

May 23 – 25, 2023 | San Antonio, TX | [NDIA.org/SET23](https://ndia.org/SET23)

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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 than 100 years, NDIA and its predecessor organizations have been at the heart of the mission by dedicating their time, expertise, and energy to ensuring our warfighters have the best training, equipment, and support. For more information, visit NDIA.org

GET INVOLVED

Learn more about NDIA's Divisions and how to join one at NDIA.org/Divisions



LEADERSHIP

James Chew

Division Chair

SCIENCE AND ENGINEERING TECHNOLOGY DIVISION

WHO WE ARE

The Science & Engineering Technology Division was formed to examine all aspects of science and technology affecting national defense. The division provides a venue for discussion of the nation's defense needs by examining existing capabilities and suggesting ways to overcome deficiencies in defense research and development (R&D). Individuals from industry, government, and academia have the opportunity to examine vital information in an open forum on technical needs and planned efforts. The division is dedicated to raising interest in meeting Department of Defense technology requirements through creative research and advanced development across industry, government, and academia.

SCHEDULE AT A GLANCE

TUESDAY, MAY 23

Networking Breakfast

San Pedro 1 Foyer
7:30 am – 8:30 am

Registration

San Pedro 1 Foyer
7:30 am – 6:00 pm

Tabletop Displays Open

Room 104
7:30 am – 6:00 pm

General Session

San Pedro 1 Conference Center
8:30 am – 5:05 pm

Networking Lunch

San Pedro 1 Room 100
11:45 am - 1:00 pm

Networking Reception

San Pedro 1 Foyer
5:05 – 6:00 pm

WEDNESDAY, MAY 24

Networking Breakfast

San Pedro 1 Foyer
7:00 – 8:00 am

Registration

San Pedro 1 Foyer
7:00 am – 4:35 pm

Tabletop Displays Open

Room 104
7:00 am – 4:35 pm

General Session

San Pedro 1 Conference Center
8:00 am – 4:35 pm

Networking Lunch

San Pedro 1 Foyer
11:20 am - 12:30 pm

THURSDAY, MAY 25 (CLASSIFIED)

Networking Breakfast

San Pedro 1 Foyer
7:00 – 8:00 am

Registration

San Pedro 1 Foyer
7:00 – 11:05 am

Tabletop Displays Open

Room 104
7:00 – 11:05 am

General Session

San Pedro 1 Conference Center
8:00 - 11:05 am



JOIN THE CONVERSATION



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NDIA.org/LinkedIn



@NDIAToday



@NDIAToday

THANK YOU TO OUR SPONSOR



EVENT INFORMATION

LOCATION

University of Texas San Antonio: San Pedro 1
506 Dolorosa Street
San Antonio, TX 78204

ATTIRE

Civilian: Business Casual
Military: Uniform of the Day

SURVEY AND PARTICIPANT LIST

You will receive via email a survey and list of participants (name and organization) after the conference. Please complete the survey to make our event even more successful in the future.

EVENT CONTACT

Jenica Seguine
Meeting Planner
(703) 247-2561
jseguine@NDIA.org

Andrew Peters
Associate Director, Meetings
(703) 247-2572
apeters@NDIA.org

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Associate Director, Divisions
(703) 247-2599
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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.

EVENT CODE OF CONDUCT

NDIA's Event Code of Conduct applies to all National Defense Industrial Association (NDIA), National Training & Simulation Association (NTSA), and Women In Defense (WID) meeting-related events, whether in person at public or private facilities, online, or during virtual events. NDIA, NTSA, and WID are committed to providing a productive and welcoming environment for all participants. All participants are expected to abide by this code as well as NDIA's ethical principles and practices. Visit [NDIA.org/CodeOfConduct](https://www.ndia.org/CodeOfConduct) to review the full policy.

**REAL-TIME
CROWD-SOURCED
Q&A**



Slido is an audience engagement platform that allows users to crowd-source top questions to drive meaningful conversations and increase crowd participation. Participants can up-vote the questions they would most like to hear discussed. Simply tap the thumbs-up button to up-vote a question. Top questions are displayed for the moderator and speaker to answer.

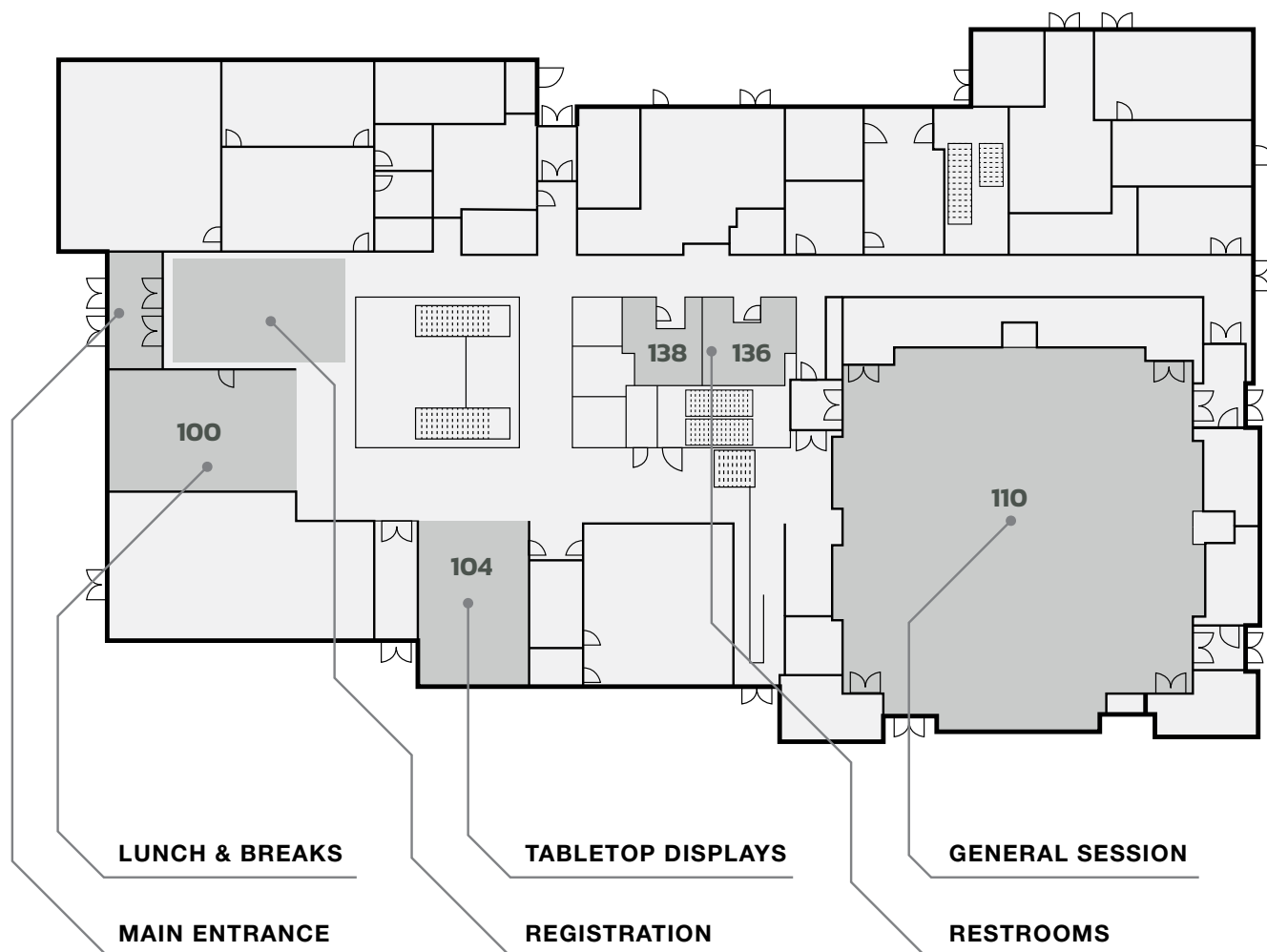


Event code: **SET23**

**ANTI-TRUST
STATEMENT**

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.

VENUE MAP



AGENDA

TUESDAY, MAY 23

6:00 – 10:00 am

TRANSPORTATION TO SAN PEDRO 1

THE EMILY MORGAN SAN ANTONIO - A DOUBLETREE BY HILTON HOTEL

A bus will loop from the hotel to the event venue every 20 minutes.

7:30 am – 6:00 pm

REGISTRATION

SAN PEDRO 1 FOYER

7:30 – 8:30 am

NETWORKING BREAKFAST

SAN PEDRO 1 FOYER

7:30 am - 6:00 pm

TABLETOP DISPLAYS OPEN

SAN PEDRO 1 FOYER

8:30 – 8:45 am

WELCOME

SAN PEDRO 1 CONFERENCE CENTER

James Chew

Senior Global Group Director, Aerospace & Defense, Cadence Design
Science & Engineering Technology Division Chair, NDIA

8:45 – 9:15 am

TODAY'S NDIA

SAN PEDRO 1 CONFERENCE CENTER

Arun Seraphin

Executive Director, NDIA Emerging Technologies Institute

9:15 – 9:45 am

HUMANITARIAN ASSISTANCE DISASTER RELIEF MISSION AND SCIENCE TECHNOLOGY NEEDS

SAN PEDRO 1 CONFERENCE CENTER

James Miner

Chief Humanitarian Assistance & Demining Division, Defense Security Cooperation Agency

9:45 – 10:15 am

NETWORKING BREAK

SAN PEDRO 1 FOYER

10:15 – 10:45 am

ARMY NORTH KEYNOTE

SAN PEDRO 1 CONFERENCE CENTER

LTG John Evans, Jr., USA

Commander, United States Army North

- 10:45 – 11:15 am **ASA (AL&T) S&T PRIORITIES**
SAN PEDRO 1 CONFERENCE CENTER
William Nelson, SES
Deputy Assistant, Secretary of the Army for Research & Technology, U.S. Army
- 11:15 – 11:45 am **DTIC MODERNIZATION**
SAN PEDRO 1 CONFERENCE CENTER
Michele Finley
Chief of Staff, Defense Technical Information Center (DTIC)
- 11:45 am – 1:00 pm **NETWORKING LUNCH**
SAN PEDRO 1 ROOM 100
- 1:00 – 1:30 pm **AFRL S&T PRIORITIES**
SAN PEDRO 1 CONFERENCE CENTER
Dr. Timothy Bunning, SES
Chief Technology Officer, AFRL
- 1:30 – 2:00 pm **DEPARTMENT OF AIR FORCE MICROELECTRONICS STRATEGY UPDATE**
SAN PEDRO 1 CONFERENCE CENTER
Dr. Yadunath Zambre
Chief Microelectronics Technology Officer, Air Force Research Laboratory
- 2:00 – 2:30 pm **TRANSCOM HUMANITARIAN ASSISTANCE DISASTER RELIEF
MISSION S&T NEEDS**
SAN PEDRO 1 CONFERENCE CENTER
Lou Bernstein
RDT&E Program Director, U.S. Air Force
- 2:30 – 3:00 pm **NETWORKING BREAK**
SAN PEDRO 1 FOYER
- 3:00 – 3:30 pm **DEFENSE INNOVATION UNIT UPDATE**
SAN PEDRO 1 CONFERENCE CENTER
Mike Madsen
Deputy Director and Director of Strategic Engagement, Defense Innovation Unit (DIU)
- 3:30 – 4:00 pm **THINKING OUT OF THE BOX GEOTHERMAL ENERGY FOR THE DOD**
SAN PEDRO 1 CONFERENCE CENTER
Maj Gen Ken Wisian, PhD USAF (Ret)
Associate Director, Environmental Division, Bureau of Economic Geology
The University of Texas at Austin

4:00 – 4:30 pm

THE POWER OF ERDC – SUPPORT OF HA/DR MISSIONS

SAN PEDRO 1 CONFERENCE CENTER

Dr. Jeff Jorgeson

Research Engineer, U.S. Army Corps of Engineers, Engineer Research & Development Center

4:30 – 5:00 pm

DESIGNING MULTI-USE FACILITIES: SAN PEDRO 1 NATIONAL SECURITY COLLABORATION CENTER

SAN PEDRO 1 CONFERENCE CENTER

Brig Gen Guy Walsh, USAF (Ret)

Executive Director, National Security Collaboration Center, University of Texas

5:00 – 5:05 pm

CLOSING REMARKS

SAN PEDRO 1 CONFERENCE CENTER

Brig Gen Guy Walsh, USAF (Ret)

Executive Director, National Security Collaboration Center, University of Texas

5:05 – 6:00 pm

NETWORKING RECEPTION

SAN PEDRO 1 FOYER

3:00 – 7:00 pm

TRANSPORTATION TO THE EMILY MORGAN HOTEL

SAN PEDRO 1

A bus will loop from the hotel to the event venue every 20 minutes.

WEDNESDAY, MAY 24

6:00 – 10:00 am

TRANSPORTATION TO SAN PEDRO 1

THE EMILY MORGAN SAN ANTONIO - A DOUBLETREE BY HILTON HOTEL

Bus looping from hotel to event venue every 20 minutes

7:00 am – 4:35 pm

REGISTRATION

SAN PEDRO 1 FOYER

7:00 – 8:00 am

NETWORKING BREAKFAST

SAN PEDRO 1 FOYER

7:00 am - 4:30 pm

TABLETOP DISPLAYS OPEN

SAN PEDRO 1 FOYER

8:00 – 8:10 am

OPENING REMARKS

SAN PEDRO 1 CONFERENCE CENTER

James Chew

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

Council Member Manny Pelaez

City of San Antonio

8:10 – 8:40 am

HOW DOD S&T INVESTMENT HELPED QUICKLY DEVELOP THE COVID-19 VACCINES

SAN PEDRO 1 CONFERENCE CENTER

Dr. David Norwood

Deputy Director, Military Infectious Diseases Research Program, U.S. Army Medical Research & Materiel

8:40 – 9:10 am

HOW NGA IS USING DATA STRATEGY TO DRIVE MISSION

SAN PEDRO 1 CONFERENCE CENTER

Deepak Kundal, SES

Chief Data Officer, National Geospatial-Intelligence Agency

9:10 – 9:40 am

RAPID INNOVATION FUND UPDATE

SAN PEDRO 1 CONFERENCE CENTER

David Busigo

Independent Public Accounting, U.S. Department of Defense, Office of Small Business Programs

9:40 – 10:15 am

NETWORKING BREAK

SAN PEDRO 1 FOYER

10:15 – 11:20 am

LEVERAGING TECH INNOVATION IN PUBLIC SAFETY AND DISASTER RESPONSE

SAN PEDRO 1 CONFERENCE CENTER

Patricia Baumhart

Chief Connection Officer, Autonomy Institute
President, NDIA Lone Star Chapter
Moderator

Jeoff Williams, Lt. Colonel

Deputy Director, Law Enforcement Services, Texas Department of Public Safety

Jim Perschbach

President & CEO, Tech Port San Antonio

James Glass

Deputy Director, Southwest Fusion Center

11:20 am – 12:30 pm

NETWORKING LUNCH

SAN PEDRO 1 ROOM 100

12:30 – 1:30 pm

NORAD & USNORTHCOM KEYNOTE

SAN PEDRO 1 CONFERENCE CENTER

Brig Gen Paul Murray, USAF

Deputy Director of Operations, Headquarters North American Aerospace Defense Command

1:30 – 1:45 pm

NORAD & USNORTHCOM BI-NATIONAL COMMAND

SAN PEDRO 1 CONFERENCE CENTER

Col Donald Saunders

Director, NORAD Forward Element Ottawa

1:45 – 2:00 pm

NORAD MODERNIZATION

SAN PEDRO 1 CONFERENCE CENTER

Col Donald Saunders

Director, NORAD Forward Element Ottawa

2:00 – 2:30 pm

NETWORKING BREAK

SAN PEDRO 1 FOYER

2:30 – 2:45 pm

NORAD & USNORTHCOM DIGITAL TRANSFORMATION

SAN PEDRO 1 CONFERENCE CENTER

James Rizzo

Division Chief, Cyber Plans

2:45 – 3:00 pm

NORAD & USNORTHCOM CAMPAIGN OF EXPERIMENTATION

SAN PEDRO 1 CONFERENCE CENTER

Col Derrick Franck, USAF

Chief, N&NC Experimentation & Strategic Analysis (J8)

3:00 – 4:30 pm

NORAD & USNORTHCOM UNCLASSIFIED PANEL

SAN PEDRO 1 CONFERENCE CENTER

Brig Gen Paul Murray, USAF

Deputy Director of Operations (J3), Headquarters North American Aerospace Defense Command

Col Donald Saunders

Director, NORAD Forward Element Ottawa

James Rizzo

Division Chief, Cyber Plans (J6)

Gregory Looney

Chief, Joint Concepts & Domestic Policy (J5)

Col Jason Golaboski, USAF

Chief, N&NC Science & Technology (J8)

4:30 – 4:35 pm

CLOSING REMARKS

SAN PEDRO 1 CONFERENCE CENTER

James ChewSenior Global Group Director, Aerospace & Defense, Cadence Design
Science and Engineering Technology Division Chair, NDIA

3:00 – 7:00 pm

TRANSPORTATION TO THE EMILY MORGAN HOTEL

SAN PEDRO 1

*A bus will loop from the hotel to the event venue every 20 minutes.***THURSDAY, MAY 25 (CLASSIFIED)**

6:00 – 10:00 am

TRANSPORTATION TO SAN PEDRO 1

THE EMILY MORGAN SAN ANTONIO - A DOUBLETREE BY HILTON HOTEL

Bus looping from hotel to event venue every 20 minutes

7:00 – 11:05 am

REGISTRATION

SAN PEDRO 1 CONFERENCE CENTER

7:00 – 8:00 am

NETWORKING BREAKFAST

SAN PEDRO 1 FOYER

7:00 - 11:05 am

TABLETOP DISPLAYS OPEN

SAN PEDRO 1 FOYER

8:00 – 8:05 am

OPENING REMARKS

SAN PEDRO 1 CONFERENCE CENTER

Dr. Michelle AtchisonDirector, Federal Relations (Washington DC), Senior National Security Strategist, Office of the Vice President of
Research, Economic Development & Knowledge Enterprise (REDKE), University of Texas at San Antonio

8:05 – 8:50 am

NORAD & USNORTHCOM GLOBAL PERSPECTIVE

SAN PEDRO 1 CONFERENCE CENTER

Col Derrick Franck

Chief, N&NC Experimentation & Strategic Analysis (J8)

8:50 – 9:25 am

**NORAD & USNORTHCOM HOMELAND DEFENSE DESIGN
2025, 2030 & NEXT**

SAN PEDRO 1 CONFERENCE CENTER

Gregory Looney

Chief, Joint Concepts & Domestic Policy

9:25 – 9:40 am

NETWORKING BREAK

SAN PEDRO 1 FOYER

9:40 – 10:10 am

NORAD & USNORTHCOM INTEGRATED PRIORITIES & STRDI HOMELAND DEFENSE SYMPOSIUM

SAN PEDRO 1 CONFERENCE CENTER

Col Jason Golaboski, USAF

Chief, N&NC Science & Technology (J8)

10:10 – 11:00 am

NORAD & USNORTHCOM CLASSIFIED PANEL

SAN PEDRO 1 CONFERENCE CENTER

Brig Gen Paul Murray, USAF

Deputy Director of Operations (J3), Headquarters North American Aerospace Defense Command

Col Donald Saunders

Director, NORAD Forward Element Ottawa

James Rizzo

Division Chief, Cyber Plans (J6)

Gregory Looney

Chief, Joint Concepts & Domestic Policy (J5)

Col Jason Golaboski, USAF

Chief, N&NC Science & Technology (J8)

11:00 – 11:05 am

CLOSING REMARKS

SAN PEDRO 1 CONFERENCE CENTER

Michelle Atchison

Director, Federal Relations (Washington DC), Senior National Security Strategist, Office of the Vice President of Research, Economic Development & Knowledge Enterprise (REDKE), University of Texas at San Antonio

10:30 am – 2:00 pm

TRANSPORTATION TO THE EMILY MORGAN HOTEL

SAN PEDRO 1

A bus will loop from the hotel to the event venue every 20 minutes.

BIOGRAPHIES



LTG JOHN EVANS, JR., USA

Commander
U.S. Army North

LTG John R. Evans, Jr. is the Commanding General of U.S. Army North (Fifth Army),

headquartered at Fort Sam Houston, TX. U.S. Army North is the Theater Army and Army Service Component Command to U.S. Northern Command, the geographic combatant command for North America. U.S. Army North's mission is Homeland Defense, Defense Support of Civil Authorities, and Theater Security Cooperation.

Prior to assuming command of U.S. Army North, he served as Commanding General, United States Army Cadet Command, Fort Knox, KY.

After completing flight school, he was assigned as an Attack Platoon Leader in C / 1-82nd Aviation Battalion, 82nd Airborne Division, Fort Bragg, NC, where he served in

Operation Desert Shield/Desert Storm. Upon departing Fort Bragg in 1995, he served his first of three tours with the 160th Special Operations Aviation Regiment (Airborne) which included duties as A Company Commander; Regiment S3; Regiment Operational Assessment Element Commander Regiment Deputy Commander; Battalion Commander, 2nd Battalion; and Regiment Commander, Fort Campbell, KY.

Other assignments include: Deputy Commanding Officer of the Combined Forces Special Operations Component Command – Afghanistan, Kabul Afghanistan; Chief of Staff of the Army Senior Fellow at The Brookings Institution, Washington, DC; Deputy Commanding General –Support for 2nd Infantry Division / Republic of Korea - U.S. Combined Division in the Republic of Korea; and Commanding General, U.S. Army Special

Operations Aviation Command (A), Fort Bragg, NC. He has served multiple combat tours in Iraq and Afghanistan.

Evans was commissioned in 1988 as a Distinguished Military Graduate from Appalachian State University and is a graduate of the Armor Advanced Course, the U.S. Army Command and General Staff College and the U.S. Naval War College. He holds a Master of Arts in Adult Education from Kansas State University, and a Master of Arts in National Security and Strategic Studies from the U.S. Naval War College.

His military awards and decorations include the Distinguished Service Medal, Defense Superior Service Medal, Legion of Merit with two oak leaf clusters, Bronze Star with three oak leaf clusters, the Air Medal with V device and numeral 2.



MICHELE FINLEY

Chief of Staff
Defense Technical Information Center (DTIC)

Michele Finley is the Defense Technical Information Center (DTIC) Chief of Staff, a

position she has held since her appointment in October of 2019. As the Chief of Staff, she supports DTIC's mission to ensure the innovation and knowledge stemming from the Department of Defense's past and current investment in science and technology (S&T) forms the building blocks for the next generation of discovery, enhancing and accelerating American warfighters capabilities. Her responsibilities include: promote a unified strategic approach to ensure DTIC's Science and Technology goals are aligned and nested with the DoD's; shape and mold the organization's culture and atmosphere;

foster collaboration within the organization as well as with others from government, industry, and academia; and manage the efforts of a team of DoD civilians and contractors to accomplish DTIC's near and long term goals.

In addition, Finley is part of the senior leadership team that manages an organization whose annual operating budget is \$65M and whose Information Analysis Centers (IACs) generated over \$2.5 billion in R&E related contracts. She also serves as the Managing Editor for the Journal of DoD Research and Engineering (JDR&E), which publishes scientific research articles, commentary, and cutting-edge research from the research and engineering communities of interest.

Prior to her appointment as the Chief of Staff, Finley served as the Deputy Director of User Services, one of DTIC's six directorates, as well as serving as DTIC's Public Affairs Officer and Strategic Communications Specialist. Before joining the Department of Defense as a DoD Civilian, Finley spent 13 years working for a non-profit medical organization advocating for physicians and their patients in the field of otolaryngology, a medical specialty concerned especially with the ear, nose, and throat and related parts of the head and neck.

Finley is a recipient of the DTIC Exceptional Civilian Service Award and a graduate of Radford University, where she earned a Bachelor of Science in communications.



WILLIAM NELSON, SES

Deputy Assistant, Secretary of the Army for Research & Technology
U.S. Army

William Nelson is a member of the Senior Executive Service and currently serves as the

Deputy to the Commanding General of Army Futures Command. As the Commanding General's Senior Civilian Advisor, he serves as an Army transformation and technical expert working closely with industry and academia to design the Army of 2040. In addition, he oversees command-wide programs for 26,000 personnel and approximately \$10 billion in financial resources.

Prior to this assignment, Nelson was the Deputy Assistant Secretary of the Army for Research and Technology / Army Chief Scientist under the Office of the Assistant Secretary of the Army (Acquisition, Logistics & Technology). He was the principal advisor to the Secretary of the Army on Science and Technology and provided strategic direction and oversight of basic, applied, and advanced technology development for all Army laboratories, research, development, and engineering centers with a combined annual budget of approximately \$3 billion.

Preceding his position with the Assistant Secretary of the Army (Acquisition, Logistics & Technology), Nelson was the Director of the Assured Positioning, Navigation and Timing/

Space (APNT/Space) Cross-Functional Team (CFT), Army Futures Command (AFC). He was responsible for accelerating the development and delivery of advanced APNT, Tactical Space and Electronic Warfare capabilities. Working across the Army Modernization Enterprise, his team informed technology and system requirements through continuous experimentation and prototyping, technology integration and Soldier feedback and delivered next generation weapons, vehicles, and equipment to the field at an unprecedented rate.

Nelson previously served as the Director, Programs and Technology at the U.S. Army Space and Missile Defense Command / Army Forces Strategic Command (SMDC/ARSTRAT), where he directed research, development and test programs for all space, missile defense, directed energy and hypersonic weapon technologies. He served as the Deputy Director and Director of Space and Strategic Systems at the SMDC Technical Center and served as the Acting Deputy Chief of Staff G-3/4 for Current Operations at US Army Materiel Command.

Nelson spent 13 years at the Missile Defense Agency, where he led agency-level programs and technical integration of the Ballistic Missile Defense System as MDA's

Deputy Chief Engineer. He also served as the Chief Engineer for the Targets and Countermeasures Office and as the Director for Mission Management & Integration.

Nelson earned a U.S. Air Force commission through ROTC at the University of Texas at Austin and retired as a Space and Missile Officer after 20 years of combined active duty and reserve service. His operational deployments include Operations Northern Watch, Noble Eagle, and Enduring Freedom. He is a graduate of Harvard's Senior Executives in National and International Security and Oxford's Advanced Management & Leadership Programs.

Nelson earned a U.S. Air Force commission through ROTC at the University of Texas at Austin, and retired as a Space and Missile Officer after 20 years of combined active duty and reserve service. His operational deployments include Operations Northern Watch, Noble Eagle, and Enduring Freedom. He is a graduate of Harvard's Senior Executives in National and International Security and Oxford's Advanced Management & Leadership Programs.



MIKE MADSEN

Acting Director
Deputy Director & Director of Strategic Engagement at the Defense Innovation Unit (DIU)

Before joining DIU, Mike Madsen was the Executive Director for the Section

809 Congressional Advisory Panel on Streamlining Acquisition. The Panel provided the intellectual underpinnings for acquisition reform language in defense authorization

statutes. Prior to this, Madsen served for 22 years in the U.S. Air Force, where he led at the group and squadron levels and is a decorated combat pilot. He retired from the Air Force while he was the Senior Air Force Advisor to the Director, Cost Assessment and Program Evaluation (CAPE) in the Office of the Secretary of Defense. Madsen

also served as Division Chief in Legislative Liaison in the Office of the Secretary of the Air Force, directly advising the Secretary of the Air Force and Chief of Staff of the Air Force on issues before the congressional defense committees.



DR. TIMOTHY BUNNING, SES

Chief Technology Officer
Air Force Research Laboratory (AFRL)

Dr. Timothy J. Bunning, a member of the Scientific and Professional Cadre of Senior Executives, is Chief Technology Officer, Air Force Research Laboratory, Air Force Materiel Command, Wright-Patterson Air Force Base, OH. As the primary science and technology advisor to the AFRL Commander, he is responsible for assisting with the planning and execution of an annual \$2.8 billion Air Force science and technology program and considerable resources executed on behalf of a variety of customers. He serves as the corporate-level science and technology interface for a government workforce of nearly 6,000 people in the laboratory's nine technology directorates and 711th Human Performance Wing.

Dr. Bunning joined AFRL in 1990 in the Materials and Manufacturing Directorate as a Ph.D. student. His research was funded

through an Air Force Office of Scientific Research doctoral fellowship and conducted on-site within the directorate. After earning his doctorate and conducting post-doctoral studies at Cornell University, he spent six years as an on-site contractor in the directorate before transitioning to civil service there in 1998. He has served in numerous positions, including as a bench scientist/engineer, first- and second-level supervisor and research leadership positions within the directorate between 1998 and 2015 when he was selected to be the directorate's Chief Scientist. He served in that position until his appointment as the AFRL Chief Technology Officer.

Dr. Bunning is active in numerous technical communities and is a Fellow of AFRL, the Optical Society of America, the Society of Optical Engineering, the American Physical Society, the American Chemical Society, the Royal Society of Chemistry,

the Materials Research Society and the Polymeric Materials Science and Engineering Division of ACS. His research interests center on responsive optical, electro-optical, and photo-optical structured organic and hybrid materials and approaches for utility in optical sensing, laser beam control and filtering (modulation) applications. He has co-authored more than 300 referred papers and more than 130 proceedings, has provided editorial in several books and holds 18 patents. He is currently an adjunct professor in the Department of Materials Science and Engineering at Georgia Institute of Technology and is on the editorial boards of several materials-centric journals.

Parallax

ADVANCED RESEARCH

We help to realize Ohio's vision with our technology, people, and expertise.

We apply the Science of Intelligent Teaming™ by melding human and machine intelligence research and development to deliver innovative solutions to our nationwide clients.

We facilitate scientific and technological innovation through our suite of entrepreneur and research networks that enable optimal performance in the national defense.

Through our affiliation with the Ohio Aerospace Institute, a 501(c)3 nonprofit research institute, we accelerate Ohio's aerospace workforce development by connecting academia, industry, and the government to a global aerospace network and educational programs.



parallaxresearch.org

TABLE TOP DISPLAY HOURS

TUESDAY, MAY 23
7:30 am – 6:00 pm

WEDNESDAY, MAY 24
7:00 am – 4:30 pm

THURSDAY, MAY 25
7:00 – 10:45 am

DISPLAYER DESCRIPTIONS

DEFENSE TECHNICAL INFORMATION CENTER (DTIC)

1

The Defense Technical Information Center (DTIC) is responsible for managing DoD, industry, academic, and public access to defense-funded scientific research. As the Department's scientific and technical information knowledge provider, DTIC plays a key role in facilitating classified and unclassified information sharing on research & engineering efforts relevant to national defense.

NORTHEASTERN UNIVERSITY

2

Northeastern is the world leader in experiential learning. Here, graduate students—from the master's through the doctorate, and in professional and certificate programs—put knowledge to work at Fortune 500 and startup companies, universities, government agencies, nonprofits, and global organizations. With more than 3,300+ corporate partners in 90 countries, on every continent, Northeastern forges educational, experiential, and research partnerships. Our worldwide network of professionals and engaged university citizens includes more than 255,000 alumni.

TROVERLO, INC.

3

Troverlo is a platform for the collection of utilization and location data on assets anywhere in the world leveraging the existing Wi-Fi infrastructure without establishing data connections or breaching individual privacy. Troverlo enables tracking of virtually any asset with a Wi-Fi chip or addition of an external tag for effortless, secure data collection.

ZULU PODS

4

Zulu Pods are the world's first decentralized lubrication system that combines the function of a reservoir, pump, and nozzle into a single, self-contained, hermetically sealed, packaged oil delivery system. Zulu Pods can be used for primary lubrication for limited life engines or backup lubrication during a loss of lubrication event. www.zulupods.com



2023 JADC2: ALL DOMAIN WARFARE SYMPOSIUM

July 18 – 19, 2023 | Alexandria, VA



2023 UNDERSEA WARFARE FALL CONFERENCE

September 18 – 20*, 2023 | Groton, CT



26TH ANNUAL SYSTEMS & MISSION ENGINEERING CONFERENCE

October 16 – 19, 2023 | Norfolk, VA



2023 CBRN DEFENSE CONFERENCE & EXHIBITION

July 24 – 26, 2023 | Baltimore, MD



FUTURE FORCE CAPABILITIES

CONFERENCE & EXHIBITION

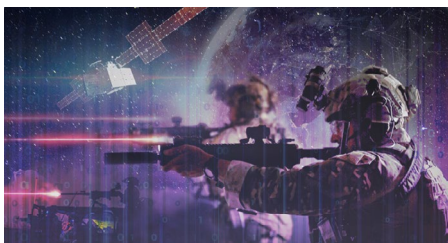
COLOCATED WITH
66th Annual Fuze Conference &
23rd Global Demilitarization
Symposium & Exhibition

September 25 – 28, 2023 | Huntsville, AL



PRECISION STRIKE TECHNOLOGY SYMPOSIUM (PSTS-23)

October 17 – 19, 2023 | Laurel, MD



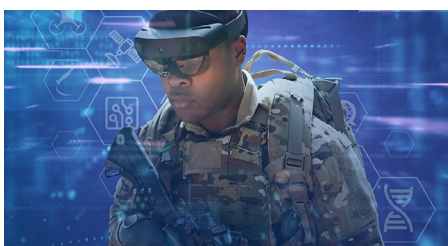
2023 SPACE WARFIGHTING FORUM

August 17 – 18**, 2023 | Colorado Springs, CO



34TH ANNUAL NDIA SO/LIC SYMPOSIUM

October 30 – 31, 2023 | Washington, DC



EMERGING TECHNOLOGIES FOR DEFENSE CONFERENCE & EXHIBITION

August 28 – 30, 2023 | Washington, DC



2023 WID NATIONAL CONFERENCE

September 26, 2023 | Arlington, VA



I/ITSEC 2023

November 27 – December 1, 2023 | Orlando, FL

*All Classified | **Partially Classified