ETi
NDIA

2025

EMERGING TECHNOLOGIES FOR DEFENSE

CONFERENCE & EXHIBITION

August 27 – 29, 2025 | Washington, D.C.
Walter E. Washington Convention Center
EmergingTechnologiesInstitute.org

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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**

ETI | NDIA

Supporting Emerging Technologies to Secure U.S. National Defense and Advance U.S. Economic Strength

The National Defense Industrial Association's Emerging Technologies Institute (ETI) performs research, hosts events, and bolsters public awareness through educational products and webinars focused on defense technology modernization and innovation. ETI also works to create a policy environment most conducive to the efficient development and delivery of new systems and technologies for the defense enterprise. ETI engages industry, academia, policymakers, and the public to explore emerging technologies' impact on national security and opportunities for industry-government partnerships to increase U.S. competitive advantage.

ETI reports, events, and workshops support NDIA's membership and the defense science & technology enterprise as part of its nonpartisan 501(c)(3) mission. ETI was founded in 2021 and is staffed by researchers and subject matter experts and backed by a preeminent advisory board. For more information, visit **EmergingTechnologiesInstitute.org**

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Welcome

to the 2025 NDIA Emerging Technologies for Defense Conference and Exhibition! We gather with great excitement to explore technological innovation and its transformative impact on our national defense and security. During the conference, we will hear from experts from across government, industry, academia, and the investment community. They will share urgent insights on game-changing emerging technologies like integrated missile defense, counter-UAS, AI, and digital manufacturing.

The future of our national security depends on America maintaining a technological edge amid fierce global competition. The agenda of this conference was designed to foster dialogue between technology leaders in government, industry, among allies and partners, and in the investment community. We hope the event triggers the kinds of ideas and partnerships that will be critical to enabling the delivery of new capabilities to our warfighters. Together, we can build a more efficient and effective defense ecosystem on behalf of our warfighters.

With these goals in mind, I encourage all participants to engage deeply with our programming: the distinguished experts on our main stage and breakout sessions, the abstract and classified presentations, the hackathon and autonomous UAS swarm demonstration, and one-on-one industry-government meetings. Your participation will shape the future of America's defense capabilities.

I would like to thank the Offices of the Under Secretaries of Defense for Research and Engineering and Acquisition and Sustainment, EUCOM, AFRICOM, NORTHCOM, CENTCOM, and the Chief Digital and Artificial Intelligence Offices of the Joint Staff, Department of the Navy, and Office of the Secretary of Defense, as well as our exhibitors and sponsors.

I want to also congratulate the NDIA team, including our Emerging Technologies Institute (ETI); Meetings, Divisions, & Partnerships; and Marketing and Communications teams for their considerable efforts in putting on this event. We also received great support from NDIA membership, especially the Science & Engineering Technology Division, Data Analytics and Enterprise Platforms Division, and Cyber-Augmented Operations Division.

The rapid pace of change in technology and in the world's geopolitical environment is astounding. Only with strong partnerships among government, defense and commercial industry, and academia can we ensure that the United States has national security technological superiority. With your help and participation, this event can make a significant contribution toward achieving that goal.

The Honorable William "Mac" Thornberry
Chair, NDIA ETI Advisory Board

Schedule at a Glance

Tuesday, August 26
Registration Open
Hallway E • 12:00 – 5:00 pm

Wednesday, August 27
Registration Open
Hallway E • 7:00 am – 6:00 pm

Networking Breakfast
Exhibit Hall • 7:00 – 8:00 am

Conference Programming
Exhibit Hall • 8:00 – 4:35 pm

Exhibit Hall Open
9:30 am – 6:00 pm

Networking Break
Exhibit Hall • 9:50 – 10:25 am

Lunch On Your Own
Exhibit Hall • 11:25 am – 12:25 pm

Networking Break
Exhibit Hall • 2:30 – 3:15 pm

Networking Reception
Exhibit Hall • 4:35 – 6:00 pm

Thursday, August 28
Registration Open
Hallway E • 7:00 am – 6:00 pm

Networking Breakfast
Exhibit Hall • 7:00 – 8:00 am

Conference Programming
8:00 am – 4:35 pm

Exhibit Hall Open
9:30 am – 6:00pm

Networking Break
Exhibit Hall • 9:45 – 10:25 am

Lunch On Your Own
Exhibit Hall • 11:25am – 12:25 pm

Networking Break
Exhibit Hall • 2:30 – 3:15 pm

Networking Reception
Exhibit Hall • 4:35 – 6:00 pm

Friday, August 29
Registration Open
Hallway E • 7:00 am – 12:00 pm

Networking Breakfast
Exhibit Hall • 7:00 – 8:00 am

Exhibit Hall Open
8:00 am – 12:00 pm

Conference Programming
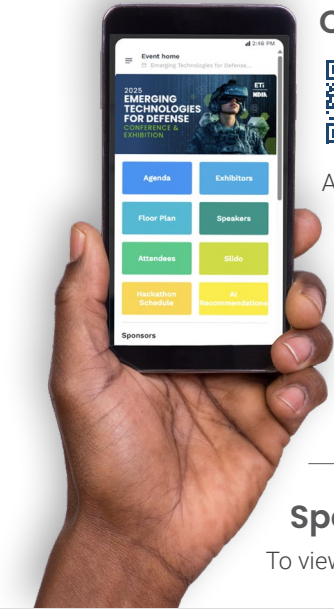8:00 am – 12:05 pm

Award Ceremony
Exhibit Hall • 11:45 am – 12:00 pm

Maximize Your Experience

Log in to the Conference App
See the latest agenda and build your custom agenda. For full access, sign in with your registered email.

Event Information

Conference Web App

Log In to the app to have full access! Connect with attendees | Schedule meetings | Explore exhibitors and floor plans | and more! Sign in with your registered email.

As a guest, you can only view the agenda and access Slido.

slido: Real-Time Crowd-Sourced Q&A

Join the conversation by asking or upvoting questions! Attendees can upvote questions with a simple thumbs-up, allowing the most relevant topics to rise to the top. Scan the QR code or access through the app. Select your room and drive meaningful discussion!

Speaker Bios

To view speaker biographies click the speaker button in the Conference web app.

Location

Walter E. Washington Convention Center

801 Allen Y. Lew Place NW, Washington, DC 20001

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 Code of Conduct

NDIA's Event Code of Conduct applies to all National Defense Industrial Association (NDIA), National Training & Simulation Association (NTSA), Emerging Technologies Institute (ETI), and Women In Defense (WID) meeting-related events, whether in person at public or private facilities, online, or during virtual events. NDIA, NTSA, ETI, 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 to review the full policy.
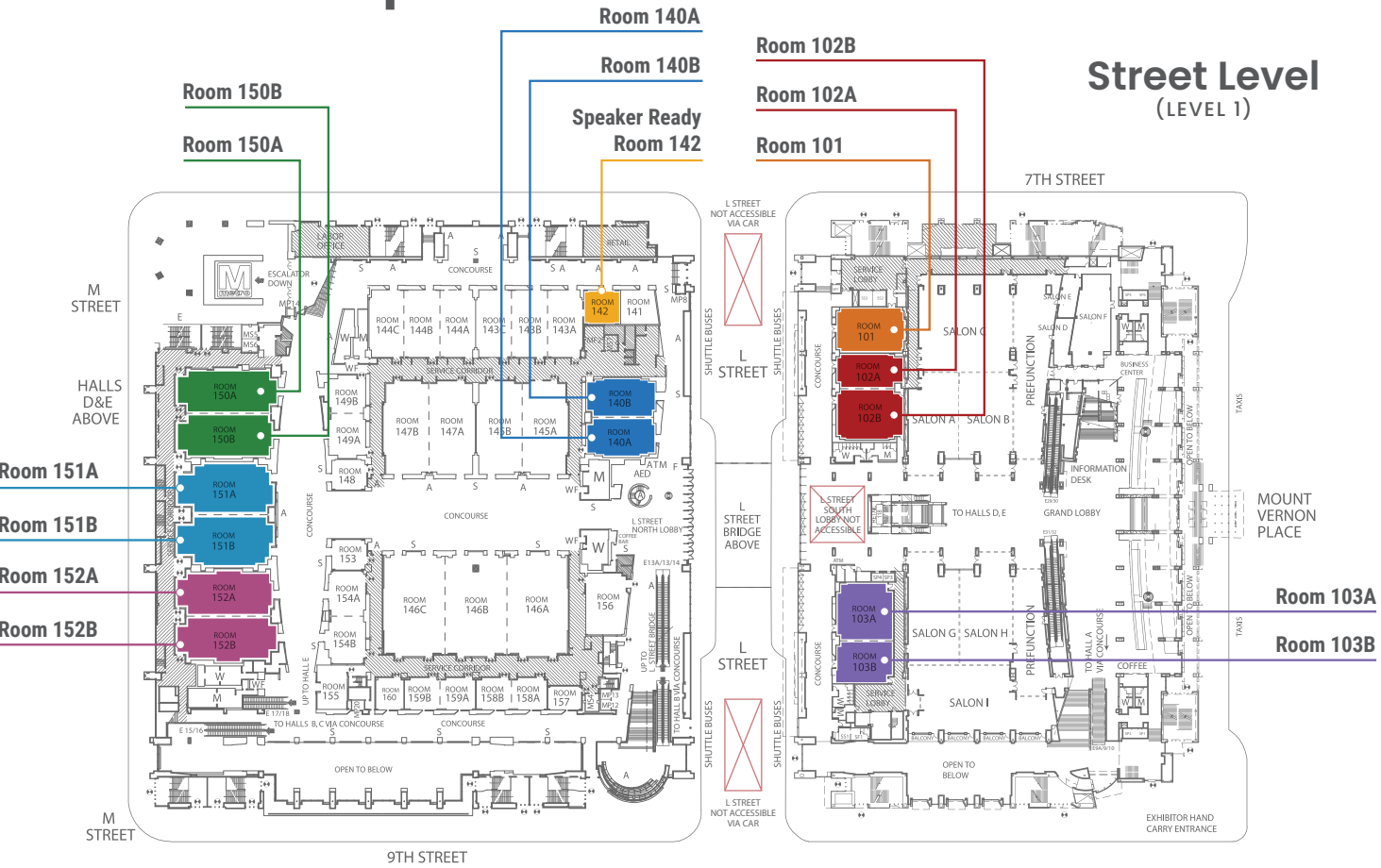
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I understand that NDIA may use photography and video to record, reproduce, and distribute the photos and video recordings of this event (webinar, conference, meeting, etc). I understand that photos or videos may be taken, and any remarks, questions, and comments that I make will/may be included in any such recording. I hereby give my consent for my name, likeness, image, voice, and appearance (as recorded by video or photography) to be used in marketing and/or video recording by NDIA or its affiliates for any purpose associated with this event (webinar, conference, meeting, etc.).

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.

Venue Map

Street Level
(LEVEL 1)

Room 150B
Room 150A
Room 140A
Room 140B
Speaker Ready Room 142
Room 102B
Room 102A
Room 101
Room 151A
Room 151B
Room 152A
Room 152B
Room 103A
Room 103B

Level Two
(LEVEL 2)

Hall E
General Session and Exhibit Hall

Registration
Meeting Room 209A

Exhibit Hall Floorplan

Hackathon

↑ **Main Stage & Audience Seating**

Food & Beverage | Lounge

| 7558 | 7557 | 7556 |
| 7658 | 7657 | 7656 |

| 7551 | 7550 | 7549 |
| 7651 | 7650 | 7649 |

Demonstration Area | Meeting Space

| 7758 | 7757 | 7756 |
| 7858 | 7857 | 7856 |

| 7754 | 7753 | 7752 |
| 7854 | 7853 | 7852 |

| 7750 | 7749 | 7748 |
| 7850 | 7849 | 7848 |

Food & Beverage

Exhibitor Services | Electronic Posters

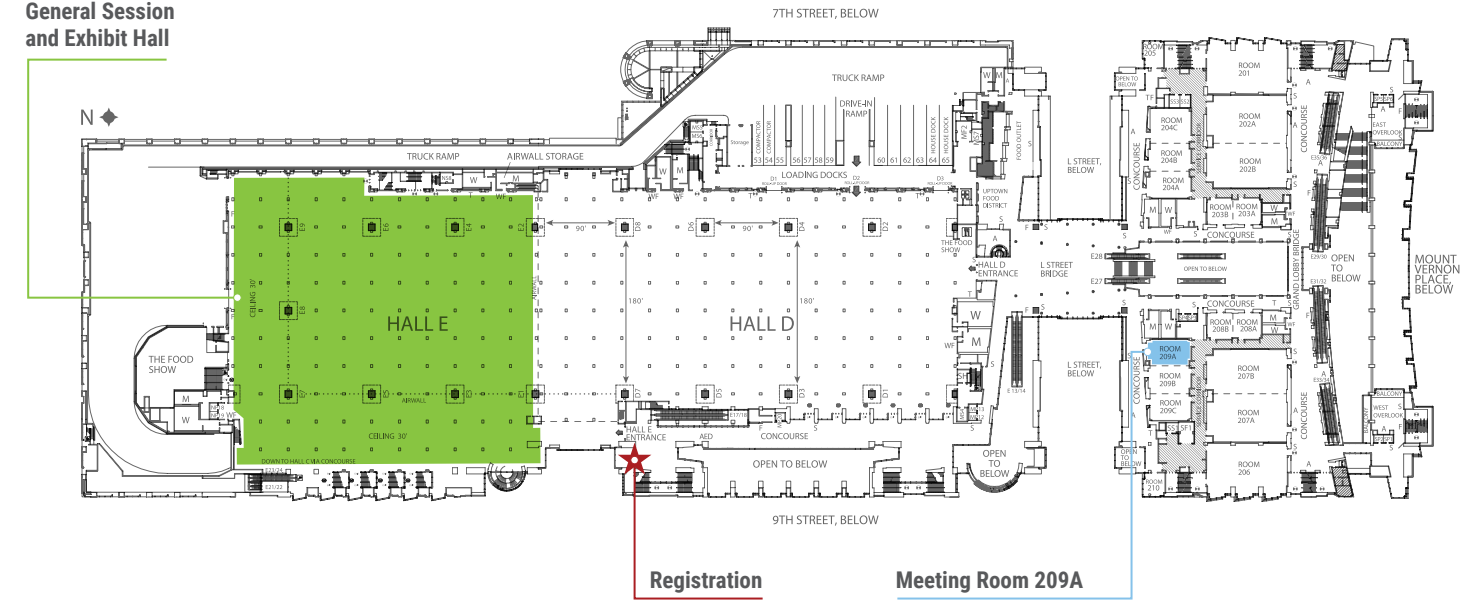| 7960 | 7959 |

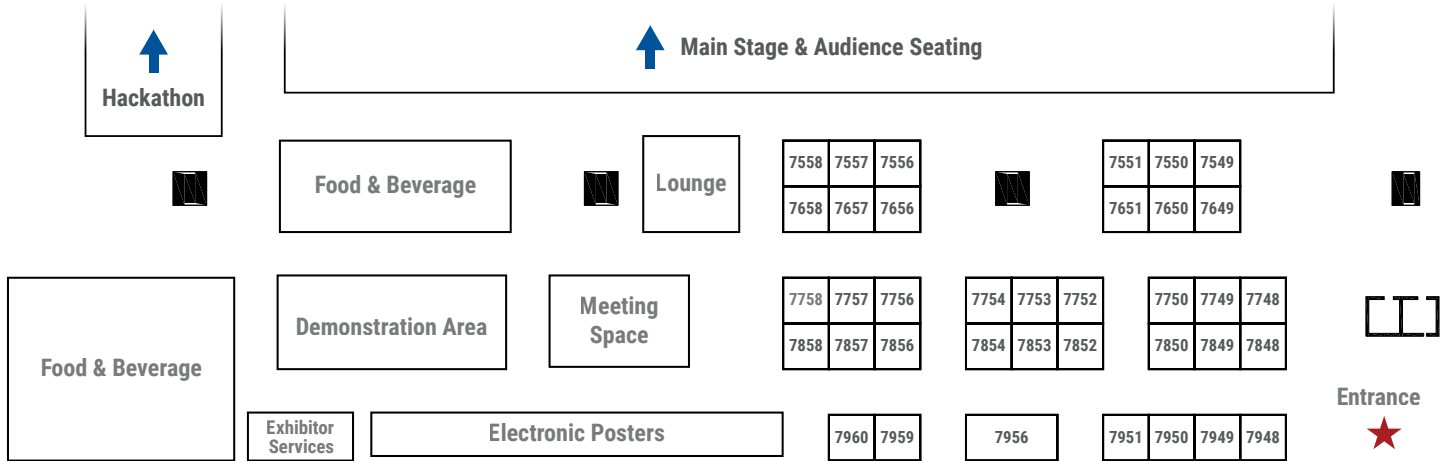| 7956 |

| 7951 | 7950 | 7949 | 7948 |

★ **Entrance**
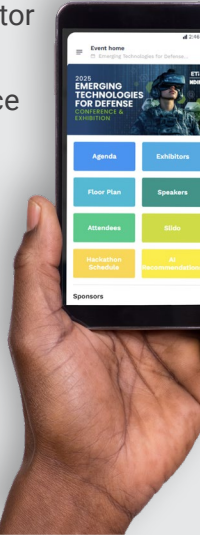
Exhibit Hall Hours

Wednesday, August 27
9:30 am – 6:00 pm

Thursday, August 28
9:30 am – 6:00 pm

Friday, August 29
8:00 am – 12:00 pm

Exhibitor Descriptions

For full exhibitor details visit the conference app and click "Exhibitors"

Exhibitors by Company

Arch Systems, LLC	7753	Maximus	7750
ARMI | BioFabUSA	7950	Missile Defense Agency	7551
ATP Gov.	7550	National Training & Simulation Association (NTSA)	7758
Black Kite	7748		
Caltech | Center for Technology and Management Education	7854	NAVSYS Corporation	7651
		NDIA	7756
Carnegie Mellon University	7856	Niron Magnetics	7656
Draper	7752	Nooks, LLC	7853
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Emerging Technologies Institute (ETI)	7757	Office of the Secretary of Defense Manufacturing Technology Program	7956
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Massachusetts Technology Collaborative's Northeast Microelectronics Coalition (NEMC)	7657	USF Institute of Applied Engineering	7650
		Zulu Pods	7852

Agenda
Log in to the app to see the latest agenda and build your custom agenda!

Tuesday, August 26

12:00 – 5:00 pm	**Exhibitor Move In/Early Registration**	Hallway E

Wednesday, August 27

7:00 am – 6:00 pm — **Registration** | Hallway E

7:00 am – 8:00 am — **Networking Breakfast** | Exhibit Hall E

8:00 – 8:15 am — **Welcome Remarks** | Exhibit Hall E
The Hon. David L. Norquist
President and Chief Executive Officer, National Defense Industrial Association

8:15 – 9:00 am — **Keynote Session** | Exhibit Hall E
The Hon. David L. Norquist
President and Chief Executive Officer, National Defense Industrial Association
Moderator

The Hon. Emil Michael
Under Secretary of Defense for Research and Engineering, United States Department of Defense

9:00 – 9:30 am — **Charting the Future of Mission Integration** | Exhibit Hall E
The Hon. David L. Norquist
President and Chief Executive Officer, National Defense Industrial Association
Moderator

Toni Townes-Whitley
Chief Executive Officer, SAIC

9:30 – 9:50 am — **Digital Frontlines: Accelerating Global Defense Effects Using Hackathons** | Exhibit Hall E
The Hon. David L. Norquist
President and Chief Executive Officer, National Defense Industrial Association
Moderator

Nick Lanham
Senior Data and AI Analyst, Kairos Inc.

Maj Culley Horne, USAF
Senior Innovation Strategist, CSAF Strategic Studies Group

9:30 am – 6:00 pm — **Exhibit Hall Open** | Exhibit Hall E

9:50 – 10:25 am — **Networking Break** | Exhibit Hall E

ROOMS	103AB	101	152AB	151AB	140AB	ABSTRACTS	
						102A	102B
10:25 – 11:25 am	**Air Force: Building the Bridge Across the Valley of Death** Audrey Decker Defense One *Moderator* Dr. Janet Wolfson, SES U.S. Department of the Air Force Lorenzo Vallone Air Force Materiel Command Brig Gen Jason Bartolomei, USAF Air Force Research Laboratory Brig Gen Matthew Groves, USAF United States Department of the Air Force	**Digital Manufacturing to Enable Business Process Change** Dr. Michael McGrath, D.Sc. McGrath Analytics LLC *Moderator* Berardino Baratta MxD Kenneth Watson, SES DLA Land and Maritime Dr. Alexis Lasselle Ross Apex Defense Strategies, LLC Dr. Suresh Rama Siemens Digital Industries Software	**CDAO: Building a Data-Driven Culture - Change Management in Government Agencies** Aaron Jaffe Federal, Palantir *Moderator* Molly Just-Behr Databricks Ashley Evans, SES Office of the Assistant Secretary of the Navy (Financial Management and Comptroller) Chandra Donelson United States Space Force	**U.S. European Command & U.S. Africa Command J8 Leadership Kickoff** The Hon. David L. Norquist President and Chief Executive Officer, National Defense Industrial Association *Introducer* Sally Pfenning, SES Director, United States European Command J8 Paul Landauer, SES Director, United States Africa Command J8	**Securing the DIB: Update on Industrial Security** Matthew Redding Defense Counterintelligence and Security Agency	Sahil Desai Divergent Adam Hicks Air Force Research Laboratory Mereb Hagos The Center for Regional Economic Competitiveness Paul Liu The Center for Regional Economic Competitiveness Lloyd Rose, PhD BioFabUSA & Defense Health Agency Richard McFarland, MD, PhD ARMI	BioFabUSA	Keirin Joyce Royal Australian Air Force Emma Bates Cachai James Kubik Somewear Labs George Dougherty Author, Beast in the Machine

11:25 am – 12:25 pm	Lunch On Your Own

ROOMS	103AB	101	152AB	151AB	140AB	ABSTRACTS	
						102A	102B
12:25 – 1:25 pm	**Igniting Innovation: Fusing USSF Needs with Industry Solutions** Dr. Reed Skaggs Lewis-Burke Associates LLC *Introducer* Jeremy Andrews United States Space Force Dr. Gillian Bussey United States Space Force Dr. Lawrence Robertson Air Force Research Laboratory	**Digital Transformation Application and Strategies** Dr. Suzette Johnson Northrop Grumman *Moderator* Laura Hart Lockheed Martin *Moderator* Renee Pasman Lockheed Martin Christopher Garrett Air Force Life Cycle Management Center Daniel Hettema Office of the Under Secretary of Defense for Research and Engineering Thomas McDermott Systems Engineering Research Center	**CDAO and CDO Summit: How Emerging Technologies are Reinventing Government** Nick Sinai Insight Partners Moderator Dr. Alexander Miller, SES Officer to the Chief of Staff, United States Department of the Army Dr. Kelly Fletcher Chief Information Officer, United States Department of State	**Task Force 66 and Task Force X** Tom Callender General Dynamics Electric Boat *Moderator* RDML Michael Mattis United States Naval Forces Europe/Africa Nora Malchin NATO Allied Command Transformation	**Cyber Resiliency in the Defense Industrial Base** Kenneth Squires Sikich *Moderator* Young Bang The Carlyle Group Terry Roberts Whitehawk CEC, Inc John Garstka, SES Office of the Principal Deputy Assistant Secretary of Defense for Industrial Base Policy	Sameer Lalwani Special Competitive Studies Project Ryan Gity G2 Michael Schneider Johns Hopkins Applied Physics Laboratory Dr. David Stoudt Directed Energy Professional Society	Paul Parazzoli IBM Zoe Mullins Leidos Abd'Malik Hakeem-Olowu SE&M Solutions, LLC Mike Keymer SE&M Solutions, LLC
1:30 – 2:30 pm	**NATO DIANA: Accelerating Solutions to Defense Challenges** Halimah Najieb-Locke Darkhive *Moderator* James Appathurai NATO DIANA	**Reforming Defense Trade for the 21st Century: Speed, Security, and Strategic Advantage** Mark Webber Lockheed Martin *Moderator* Brent Christensen United States Department of State	**The Thrilla in the Tradeoff; Optimizing Energy, Compression & Quantum AI for Persistent UAS Operations** CW3 Donovan Cooper, USA United States Army Alain Wilmouth 2CRSi Dr. Artur Dubrawski Carnegie Mellon University	**De-Risking the Future: Economic Strategies for Expanding the Defense Marketplace** Paul Landauer, SES United States Africa Command J8	**Perspectives on the Acquisition of Cyber Capabilities** Trey Hodgkins Hodgkins Consulting LLC *Moderator* Kevin Gates Senate Armed Services Committee Adolph "Rocko" Rodriguez SAIC Michael Medgyessy AWS Department of Defense Business	Isaac Mahderekal Honeywell Zoe Szajnfarber Systems Engineering Research Center (SERC) Sergio Tuberquia Equipcast Dr. Jose Ramirez OptTek Systems, Inc.	Joe Kochan National Spectrum Consortium Eric Enig Enig Associates, Inc. Nick Maynard US Ignite Mike Hartnett PowerLight Technologies

2:30 – 3:30 pm	**Networking Break**	Exhibit Hall E
3:30 – 4:30 pm	**Keynote Session**	Exhibit Hall E **ADM Christopher Grady, USN** Vice Chairman of the Joint Chiefs of Staff, United States Department of Defense **VADM Sean Buck, USN (Ret)** President, National Training and Simulation Association *Moderator*
4:30 – 4:35 pm	**Closing Remarks**	Exhibit Hall E **The Hon. David L. Norquist** President and Chief Executive Officer, National Defense Industrial Association
4:35 – 6:00 pm	**Networking Reception**	Exhibit Hall E **SPONSORED BY:** **LOCKHEED MARTIN**

Thursday, August 28

7:00 am – 6:00 pm	**Registration**	Hallway E
7:00 – 8:00 am	**Networking Breakfast**	Exhibit Hall E
8:00 – 8:15 am	**Welcome Remarks**	Exhibit Hall E Video Intro from General Dan Caine, USAF Chairman of the Joint Chiefs of Staff, United States Department of Defense

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NTSA

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8:15 – 9:00 am	**A Warfighting Perspective from USEUCOM**	Exhibit Hall E **The Hon. David L. Norquist** President and Chief Executive Officer, National Defense Industrial Association *Moderator* **General Alexus Grynkewich, USAF** Supreme Allied Commander Europe and Commander, U.S. European Command
9:00 – 9:45 am	**Private Capital's Evolving Role in Advancing Technology to the Warfighter**	Exhibit Hall E **Paul Madera** Co-Founder and Partner, Meritech Insights *Moderator* **Michael Palmer** Senior Managing Director, Cerberus Capital Management **Vance Serchuk** Managing Director, Aerospace and Defense Technology, Americas Private Equity Industrials, and Executive Director, KKR Global Institute, KKR **Matt Spence** Managing Director and Global Head of Venture Capital Banking, Barclays Corporate and Investment Bank
9:30 am - 6:00 pm	**Exhibit Hall Open**	Exhibit Hall E
9:45 – 10:25 am	**Networking Break**	Exhibit Hall E **SPONSORED BY:** **L3HARRIS**

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10:25 – 11:25 am	**Army DEVCOM: Ready Now** **Jeffrey Thomas, SES** U.S. Army Combat Capabilities Development Command (DEVCOM) *Moderator* **Meagan Metzger** Dcode **David Meyer, SES** U.S. Army Futures Command	**Electronics: You Can't Have Drones Without Electronics - How to Stay Ahead in the Global Competition** **Michael Kuiken** The Hoover Institution at Stanford University *Moderator* **Dr. Dev Shenoy** University of Southern California Information Sciences Institute **Dr. Whitney Mason** Defense Advanced Research Projects Agency **David Schild** The Printed Circuit Board Association of America	**Forging Ahead: Advanced Manufacturing Technologies for Strategic Defense Superiority** **Keith DeVries** Office of the Secretary of Defense (OSD) Manufacturing Technology (ManTech) Program *Moderator* **Justin McRoberts** Office of the Secretary of Defense **David Koch** Defense Logistics Agency **Alan Albert** Air Force Research Laboratory **Dr. Timothy White** Office of the Assistant Secretary of the Army for Acquisition, Logistics, and Technology	**C-Suite Summit** **Dr. Christian Lau** Dynamo AI **Darren Kimura** AI Squared **Dan Tadross** Scale AI **Derrick Pledger** Maximus **Dominic Delmolino** AWS **RDML Cameron Chen, USN** United States Africa Command J3	**Joint Warfighter Innovation at the Edge** **The Hon. Ellen Lord** *Moderator* **Ryan Benitez** NATO DIANA **Lt Col Jared Bindl, USAF** United States Africa Command J8 **Col Glenn McCartan, USMC** United States European Command, Defense Innovation Unit	**What's Next for National Security Policy in Cyber Space?** **Brian Stites** MAG Aerospace *Moderator* **Kirk McConnell** Former United States Senate Committee on Armed Services **Joshua Stiefel** Second Front **Christopher Cleary** ManTech	Whit Brown DuPont Electronics **Martin Slosarik** Picogrid **Alison Brown** NAVSYS Corporation **Brian Munroe, PHD** Draper **Richard Wessel**	Jeff Dobin Dynamo AI **Erin Lanus** Virginia Tech National Security Institute **Ravi Ravichandran** BAE Systems Intelligence & Security **Protima Banerjee** ASRC Federal

| **11:25 am – 12:25 pm** | **Lunch On Your Own** | | **ROOM 150 AB**

SCO Topics

Jay Dryer
Strategic Capabilities Office | | | | | |

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12:25 – 1:25 pm	**Prototyping and Experimentation: Working with Industry** **Stephanie Halcrow** The Halcrow Group *Moderator* **Devin Bohanan** Office of the Under Secretary of Defense for Research and Engineering **Lt Col Nicholas Law, USMC** OUSD (R&E)	**Regional Sustainment Framework** **Leigh Method, SES** Office of the Under Secretary of Defense for Acquisition and Sustainment *Moderator* **LTG Mark Simerly, USA** Defense Logistics Agency **VADM Jeffrey Jablon, USN** United States Department of the Navy **BG Landis Maddox, USA** United States Department of the Army	**Technologies for Offensive AI** **Hon. Stephen Welby** Georgia Tech Research Institute *Moderator* **Dr. Mark Maybury** Lockheed Martin **Jon Elliot** Chief Digital and Artificial Intelligence Office **Dr. Donald Robinson** MAG Aerospace	**CDAO: Improving Readiness w/ Predictive Analytics** **Sydney Freedberg** Breaking Defense *Moderator* **Adarryl Roberts, SES** Defense Logistics Agency **Stuart Wagner, SES** United States Department of the Navy **LT Artem Sherbinin, USN** United States Naval Surface Forces Command	**Modernizing at the Pace of Innovation: CCMD Challenges to Ensure Warfighting Capabilities** **Darren Friesz** United States European Command J6 *Moderator* **COL Guadalupe Resendez, USA** United States Africa Command J63 **Col Jonathan Cabillan, USAF** United States European Command J68 **Dennis Knoop** NORAD NORTHCOM J6	**Small Business Roundtable: How to Lower the Barrier to Entry for Innovative Cyber Technologies** **ML Mackey** Beacon Interactive Systems *Moderator* **Kevin Hancock** EXOSTAR LLC **Lauren Hanyok** Naval Surface Warfare Center, Carderock Division **Cheryl Ingstad** Defense Innovation Unit **Manuel Trujillo** Swain Techs	Laura Freeman Virginia Tech National Security Institute **John Weiler** IT Acquisition Advisory Council **James Chew** Cadence Designs Systems **Gabriel Schahor** Cassiopeia Aero-Technologies	James Giordano National Defense University **Jonathan Lee** Fork & Good, Inc. **Clem Fortman** BioMADE **Luke MacQueen** Lasso Technology

ROOMS	103AB	101	152AB	151AB	140AB	ABSTRACTS	
						102A	102B
1:30 – 2:30 pm	**How DoD is Catalyzing Manufacturing and Material Innovation** **Tracy Frost, SES** Office of the Under Secretary of Defense for Research and Engineering *Moderator* **Dr. Greg Hudas** Office of the Under Secretary of Defense for Research and Engineering **Keith DeVries** Office of the Secretary of Defense (OSD) Manufacturing Technology (ManTech) Program **Carrie Bayer** Strategic Analysis, Inc. **Bethany Harrington** Office of the Under Secretary of Defense for Research and Engineering, Science & Technology Futures **Dr. Victoria Blair** DEVCOM Army Research Laboratory **Stephen Luckowski** Office of the Assistant Secretary of Defense for Science & Technology	**Electronics for Integrated Missile Defense** **Al Shaffer** MIT Lincoln Lab *Moderator* **John Halpin** Lockheed Martin **Andrew Auerbach** Sierra Nevada Corporation **Peter Marquez** AWS	**Integrating Multi-Domain Sensors for Resilient Kill Chain and Live Chain Operations** **Oliver Hsu** Andreessen Horowitz *Moderator* **Dr. Sebastian Scherer** Carnegie Mellon University Robotics Institute **Tim Klawa** Groq	**Combatant Command Science & Technology Focus Areas** **Dr. Reed Skaggs** Lewis-Burke Associates LLC *Introducer* **LTC Timothy Hodge, USA** United States European Command J8 **Lt Col Jared Bindl, USAF** United States Africa Command J8	**DIU: Accelerating Commercial Technology into the Next 10 Years**	**Charles Reynolds** Technical Systems Integrators **Connor Forman** ObjectSecurity **Payuna Uday** Systems Engineering Research Center **Amy Quezada** ArcPoint Forensics	**Brian Mayer** Research Manager, Virginia Tech Sanghani Center for Artificial Intelligence and Data Analytics **Jeannette Jacques** Raytheon **Stephanie Hughes** North AI, LLC **Thomas McDermott** Systems Engineering Research Center

2:30 – 3:15 pm	**Networking Break**	Exhibit Hall E

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3:15 – 4:30 pm

Transformation and Innovation in the Acquisition Enterprise | Exhibit Hall E

The Hon. Michael Duffey
Under Secretary of Defense for Acquisition and Sustainment, United States Department of Defense

Jesse Tolleson, Jr.
Acting Assistant Secretary of the Army for Acquisition, Logistics, and Technology, United States Department of the Army

William Bailey, SES
Performing the Duties of Assistant Secretary of the Air Force for Acquisition, Technology, and Logistics, United States Department of the Air Force

Jason Potter
Performing the Duties of Assistant Secretary of the Navy for Research, Development, and Acquisition, United States Department of the Navy

Maj Gen Stephen Purdy, Jr., USSF
Acting Assistant Secretary of the Air Force for Space Acquisition and Integration, United States Department of the Air Force

4:30 – 4:35 pm

Closing Remarks | Exhibit Hall E

Dr. Arun Seraphin
Executive Director, NDIA Emerging Technologies Institute

4:35 – 6:00 pm

Networking Reception | Exhibit Hall E

Friday, August 29

Time	Event
7:00 am – 12:00 pm	**Registration** | Hallway E
7:00 am – 8:00 am	**Networking Breakfast** | Exhibit Hall E
8:00 – 8:15 am	**Welcome Remarks** | Exhibit Hall E **Brig Gen Guy Walsh, USAF (Ret)** Executive Vice President and Chief Operating Officer, National Defense Industrial Association
8:00 am – 12:00 pm	**Exhibit Hall Open** | Exhibit Hall E
8:15 – 9:00 am	**Strengthening National Security: Partnerships In Defense Innovation** **The Hon. William "Mac" Thornberry** Chairman, Emerging Technologies Institute Advisory Board *Moderator* **Samir Mehta** President, Communication Systems, L3Harris Technologies **The Hon. Michael Gallagher** Head of Defense, Palantir Technologies

VITAL SIGNS

NDIA

2026 SURVEY COMING SOON

Scan Here to sign up to receive the survey link once it's live!

BREAKOUT SESSIONS

ROOMS	103AB	101	152AB	151AB	140AB	ABSTRACTS 102A	102B
9:10 – 10:10 am	**R&E S&T Initiatives** **Francis Rose** Fed Gov Today *Moderator* **Michael Holthe, SES** Office of the Under Secretary of Defense for Research and Engineering	**Kill Chains to Supply Chains: Needs and Enablers** **Dr. Jerry McGinn** Center for Strategic and International Studies Moderator **Dr. John Matlik** Northrop Grumman **Tara Murphy Dougherty** Govini **VADM Dion English, USN** The Joint Staff	**How Science, Technology, and Research Will Drive the Future of Artificial Intelligence** **Dr. Theresa Mayer** Carnegie Mellon University *Moderator* **CAPT William Roeting, USN (Ret)** George Mason University **Tyler Gates** Brightline Interactive **Tess deBlanc-Knowles** U.S. National Science Foundation	**Establishing Global Deterrence** **John Muller** National Defense Industrial Association *Introducer* **COL Jerrid Allen, USA** United States Army Europe and Africa	**Status Update: Revitalizing the Defense Industrial Base** **Michael Seeds** National Defense Industrial Association *Moderator* **Dr. Vic Ramdass, SES** Office of the Secretary of Defense	**Candace Wright** Missile Defense Agency **Dr. Jay Rozzi** Creare LLC **Dr. Igor Dubinsky** BWXT Advanced Technologies **Tom Huntley** REGENT	**Karen Thornton** Acquisition Innovation Research Center **John Willison** Acquisition Innovation Research Center **Sachin Shetty** Old Dominion University **Natalie Rozman** Leidos **Lincoln Parker** Defence Innovation Network (DIN)
10:10 – 11:10 am	**Deterrence in the 21st Century: Leveraging Adversary Behavior Analysis for Strategic Advantage** **Mike Desch** University of Notre Dame *Moderator* **Dr. Adam N. Stulberg** Georgia Tech **Stephan De Spiegeleire** The Hague Centre for Strategic Studies **Dr. Austin Wright** The University of Chicago **Erik Gartzke** UC San Diego	**Enablers for Industrial Mobilization** **Dr. Chris Michienzi** MMR Defense Solutions, LLC *Moderator* **LTG Neil Thurgood, USA (Ret), PhD** Anduril Industries **Julia Torrence** Office of the Under Secretary of Defense for Acquisition and Sustainment **Gaylia Campbell** Lockheed Martin Missiles and Fire Control **Randy Altschuler** Xometry	**Agents of Autonomy: Trust, Decision-Making & Human-Machine Teaming in Contested Environments** **BG William King, USA (Ret)** Booz Allen Hamilton Moderator **Ilja Bonsen** NCT Consultants **Samuel Briere** Inertial Labs, Inc.	**Deliberate and Sustainable NATO Burden Sharing** **The Hon. Stephen Hedger** American Rheinmetall Defense, Inc. *Moderator* **Lt Col Heiko Bauer, DEU Air Force** NATO **Col Jonathan Sirard, USAF** United States European Command J5 **LTC John Bailey, UK** United States European Command J5S **Col Brett Bohne** USMC, United States Africa Command J4	**Command and Control for Offensive Capabilities in the Cyber Space Domain** **Brian Stites** MAG Aerospace *Moderator* **Gregg Smith** Technology Advancement Center **John Quigg** The Johns Hopkins University Applied Physics Laboratory	**Chris Benson** Istari Digital **Thomas Konicki** Honeywell Aerospace Technologies **Benjamin Bell** PBDC Federal Group **Vedanth Srinivasan** Amazon Web Services **Thomas Konicki** Honeywell Aerospace Technologies	**Darcie Volk** RTX **Patrick Hong** RTX **Dan O'Donohue** Owl Cyber Defense **Vikram Chauhan** Shipcom Federal Solutions, LLC

Time	Session
11:15 – 11:45 am	**Phantom Works: Speeding Defense Innovation** | Exhibit Hall E **Colin Demarest** Future of Defense Reporter, Axios *Moderator* **Colin Miller** Vice President and General Manager, Boeing Phantom Works
11:45 am – 12:00 pm	**NDIA Global Defense Hackathon Award Ceremony** | Exhibit Hall E **The Hon. David L. Norquist** President and Chief Executive Officer, National Defense Industrial Association **Charles Ott** Vice President and Solutions Strategist, Maximus **Harley Stout** Acting Chief Data and AI Officer, Joint Staff, Joint Staff Office of the Chief Digital and AI Officer
12:00 – 12:05 pm	**Closing Remarks** | Exhibit Hall E **The Hon. David L. Norquist** President and Chief Executive Officer, National Defense Industrial Association

Exportability Methodology and Analysis: Forming a Design Strategy with Exportability Considerations
Michael Schneider
12:55 PM–1:10 PM | 102A

Edge Computing and Quantum-Secured Credential Generation
Abd'Malik Hakeem-Olowu and Mike Keymer
12:55 PM–1:10 PM | 102B

Electronic Warfare and Directed Energy Synergies for Countering UAS Threats
Dr. David Stoudt
1:10 PM–1:30 PM | 102A

Novel Hydrated Complex Compound Phase Change Material (HCC-PCM) based Thermal Energy Storage System for Directed Energy application
Isaac Mahderekal
1:30 PM–1:45 PM | 102A

Command, Control, Coexistence? Spectrum Sharing for Mission Success
Joe Kochan
1:30 PM–1:45 PM | 102B

Task, Workflow and System-level Opportunities for AI-based Tools to Support Defense Enterprise Efficiency
Zoe Szajnfarber
1:45 PM–2:00 PM | 102A

VLFtron™: Deployable Charged-Particle Beam Antenna for Global Subsurface Sensing and Low-Frequency Communications
Eric Enig
1:45 PM–2:00 PM | 102B

Sustainable HMIF and Machine Risk Deployment and Management, Through Real Time Predictive Battlefield Health Readiness, Using Less Energy Consuming AI-Based

Non-Large Language Auto Banding Models
Sergio Tuberquia
2:00 PM–2:15 PM | 102A

Scaling Smart Infrastructure: How 5G, AI, and Public-Private Innovation Are Transforming Communities and Defense
Nick Maynard
2:00 PM–2:15 PM | 102B

Brittle to Battle-Ready: Forging Trusted Artificial Intelligence (AI) with OptDef in Continuous Integration and Continuous Delivery/Deployment (CI/CD) Testing & Evaluation (T&E) Pipelines
Jose Ramirez
2:15 PM–2:30 PM | 102A

Wireless Power Beaming: Creating and Capturing New Competitive Advantage for Autonomy at Scale
Mike Hartnett
2:15 PM–2:30 PM | 102B

Abstract Descriptions

Wednesday Presentations

A Game-Changing Digital Manufacturing Platform for Defense and Aerospace
Sahil Desai
10:25 AM–10:40 AM | 102A

Analysing Autonomous Drone Racing's technology readiness for contemporary military operations
Keirin Joyce
10:25 AM–10:40 AM | 102B

Advanced Laser Manufacturing at Defense Scale
Adam Hicks
10:40 AM–10:55 AM | 102A

Altiro: A Resilient Software Backbone for Collaborative Autonomy in Contested Environments
Emma Bates
10:40 AM–10:55 AM | 102B

Building the Defense Workforce of the Future: Insights from Hybrid Electronics Talent Readiness
Mereb Hagos and Paul Liu
10:55 AM–11:10 AM | 102A

Uninterrupted Autonomy: The Need for Network Redundancy and Resilience for Scalable Unmanned Operations
James Bubik
10:55 AM–11:10 AM | 102B

Biotechnology as a National Security Imperative: Advancing Resilience Through Automated Manufacturing
Lloyd Rose, PhD & Richard McFarland
11:10 AM–11:25 AM | 102A

Beast in the Machine: How Robotics and AI Will Transform Warfare and the Future of Human Conflict
George Dougherty
11:10 AM–11:25 AM | 102B

INDUS-X
Sameer Lalwani
12:25 PM–12:40 PM | 102A

The Emerging Potential for Quantum Computing in National Security Applications
Paul Parazzoli
12:25 PM–12:40 PM | 102B

Reimagining Warfare - lessons learned from the 12 days war and the role of AI
Ryan Gity
12:40 PM–12:55 PM | 102A

Quantum Enhanced Warfare and the Future of Defense
Zoe Mullins
12:40 PM–12:55 PM | 102B

Thursday Presentations

Strategic Radiation Hardening of Advanced Space Systems
Brian Munroe
10:25 AM–10:40 AM | 102A

Invisible Threats, Irreversible Consequences: Fortifying GenAI for Defense
Jeff Dobin
10:25 AM–10:40 AM | 102B

Thermal Management & Anti-Static Materials for Mission-Critical Electronic Equipment
Whit Brown and Richard Wessel
10:40 AM–10:55 AM | 102A

Tailorable Risk-Informed AI Test and Evaluation Strategy (TRAITES) Framework
Erin Lanus
10:40 AM–10:55 AM | 102B

Architecting for Proliferation: A Data Layer Approach to Scalable Satellite Operations
Cameron Kondo
10:55 AM–11:10 AM | 102A

Automation, Artificial Intelligence, and Autonomy for Emerging Defense Applications
Ravi Ravichandran
10:55 AM–11:10 AM | 102B

Deployment of a hybrid GEO/LEO solution as a Backup to GPS through PNT as a Service (PNTaaS)
Alison Brown
11:10 AM–11:25 AM | 102A

Finding the Curious Incidents: A Language Modeling Approach to Maritime Anomaly Detection
Protima Banerjee
11:10 AM–11:25 AM | 102B

Autonomous Mission Operation System ? - AMOS – The Big Bang in Autonomous Systems Technologies A??shift from task-executing platforms to mission-executing systems.
Gabriel Schahor
12:25 PM–12:40 PM | 102A

Sustaining US Military Technological Advantage: Toward a Multi-Factorial Approach
James Giordano
12:25 PM–12:40 PM | 102B

From Data to Decision: Transforming T&E with Digital Engineering, Automation, and Artificial Intelligence
Laura Freeman
12:40 PM–12:55 PM | 102A

A secure and supply chain resilient meat production technology
Jonathan Lee
12:40 PM–12:55 PM | 102B

Transforming Defense IT Acquisition and Management (EO14222)
John Weiler
12:55 PM–1:10 PM | 102A

BioMADE: Pathways to Procurement for Industrial Biotechnology
Clem Fortman
12:55 PM–1:10 PM | 102B

Be like Apple: What This Means for the DoD
James Chew
1:10 PM–1:30 PM | 102A

Decentralized, energy-efficient, and easy-to-deploy food production system
Luke MacQueen
1:10 PM–1:30 PM | 102B

Next Generation PCIe Network Fabric for Simulators and High-Performance Computing
Charles Reynolds
1:30 PM–1:45 PM | 102A

An Approach Using LLMs and NLP to Support Large Document Changes
Brian Mayer
1:30 PM–1:45 PM | 102B

AI in Disguise: Unveiling Machine Learning Hidden in Binaries
Connor Forman
1:45 PM–2:00 PM | 102A

APQP Implementation to Facilitate Rapid Deployment of Emerging Technologies
Jeannette Jacques
1:45 PM–2:00 PM | 102B

From Silos to Synergy: A System-of-Systems Approach to Advancing the National Security Cyber Workforce
Payuna Uday
2:00 PM–2:15 PM | 102A

Using AI to tell the Story of DoD Spending-Scoring & Ranking RDT&E Technology Projects
Stephanie Hughes
2:00 PM–2:15 PM | 102B

ATRIO MK II: Enabling Edge-Based Digital Forensics for Tactical Cyber Operations
Amy Quezada
2:15 PM–2:30 PM | 102A

Generative AI, Visualization, and the Future of Managing Megaprojects
Thomas McDermott
2:15 PM–2:30 PM | 102B

Friday Presentations

Innovation Pathways at MDA: SBIR/STTR Programs
Candace Wright
9:10 AM–9:25 AM | 102A

Building Capacity to Produce Talent Needed to Win
John Willison
9:10 AM–9:25 AM | 102B

The Path to a Program of Record
Dr. Jay Rozzi
9:25 AM–9:40 AM | 102A

NextG RDT&E Testbed for Radar Co-existence and Non-Kinetic Effects
Sachin Shetty
9:25 AM–9:40 AM | 102B

Fundamentally Shifting Defense Logistics and Operations with Transportable Nuclear Power
Igor Dubinsky
9:40 AM–9:55 AM | 102A

Quantum Thin Film Lithium Niobate Photonics
Natalie Rozman
9:40 AM–9:55 AM | 102B

The REGENT Seaglider: A Game-Changing Emerging Technology for Maritime Dominance
Tom Huntley
9:55 AM–10:10 AM | 102A

Australia-U.S. Defence Innovation: Allied Technologies for a Complex World
Lincoln Parker
9:55 AM–10:10 AM | 102B

Internet of Models: Creating a Level Digital Engineering Playing Field for the Defense Industrial Base
Chris Benson
10:10 AM–10:25 AM | 102A

Environmental Monitoring of Missiles & High Value Assets Using the Raytheon System Health Monitor
Darcie Volk
10:10 AM–10:25 AM | 102B

Model Based System Engineering enabling Counter-UAS
Thomas Konicki
10:25 AM–10:40 AM | 102A

Making Exploitation a Guessing Game: Dynamic Fragmented Address Space Layout Randomization (DFASLR)
Patrick Hong
10:25 AM–10:40 AM | 102B

Accelerating Mission Engineering with a Digital Twin Command Center
Benjamin Bell
10:40 AM–10:55 AM | 102A

Unlocking Product Lifecycle Intelligence using Graph based Digital Thread and Generative AI
Vedanth Srinivasan
10:40 AM–10:55 AM | 102A

The Evolving Future of OT Network Defense: Lessons from National Security
Dan O'Donohue
10:40 AM–10:55 AM | 102B

Shipcom Quantum Command, Control, Computers, Communications, Cyber, Intelligence, Surveillance, and Reconnaissance - SQC5ISR
Vikram Chauhan
10:55 AM–11:10 AM | 102B

2025 Undersea Warfare Fall Conference

September 15 – 17, 2025* | Groton, CT

28ᵗʰ Annual Systems & Mission Engineering Conference

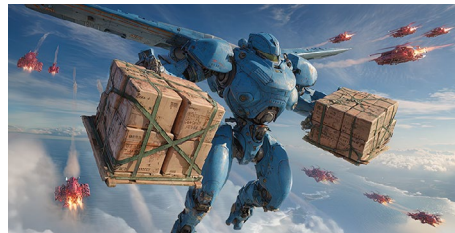October 27 – 30, 2025 | Tampa, FL

40ᵗʰ Annual National Logistics Forum

February 17 – 19, 2026 | Tampa, FL

Women In Defense 2025 National Conference

September 23, 2025 | Arlington, VA

2025 Aircraft Survivability Symposium

November 4 – 6, 2025 | Colorado Springs, CO

2026 Tactical Wheeled Vehicle Conference

February 23 – 25, 2026 | Pittsburgh, PA

Fall 2025 Integrated Program Management Division Forum

September 23 – 25, 2025 | La Jolla, CA

Interservice/Industry Training, Simulation and Education Conference

December 1 – 4, 2025 | Orlando, FL

2026 Pacific Operational Science & Technology (POST) Conference

March 9 – 13, 2026** | Honolulu, HI

Future Force Capabilities Conference & Exhibition

September 30 – October 3, 2025 | Fort Worth, TX

36ᵗʰ Annual Special Operations Symposium

February 17 – 18, 2026 | Washington, D.C.

2026 Human Systems Conference

March 17 – 18, 2026 | Arlington, VA