Scan QR for updated agenda

Department of the Air Force

Modeling, Simulation & Analytics Summit

CONVERGING HORIZONS

HOSTED & ORGANIZED BY:
Department of the Air Force (DAF),
Director of Studies and Analysis (SAF/SA),
Chief Modeling and Simulation Officer (CMSO),
Space Training and Readiness Command (STARCOM),
and the National Training & Simulation Association (NTSA)

NTSA

5 – 8 May 2026 | Colorado Springs, CO | DAFMSS.org

Welcome!

2026 Department of the Air Force Modeling, Simulation & Analytics Summit

On behalf of the Department of the Air Force (DAF) Modeling, Simulation, and Analysis (MS&A) community, welcome to the 2026 DAF MS&A Summit!

The purpose of the 2026 DAF MS&A Summit is to cultivate a distinguished MS&A community composed of professionals from across the Department of War, industry, academia, and international partners. Together, we aim to learn about new MS&A initiatives and techniques, network across military services and with industry experts, and to hear our technological leaders' perspectives on leveraging MS&A to drive innovation, accelerate capability development, and enhance decision-making across all functional domains, while highlighting the critical role of analytics within the enterprise M&S community.

The DAF Chief Modeling and Simulation Officer (CMSO) has partnered with the SecAF Office of Studies and Analysis (SAF/SA) and Space Training Command (STARCOM) to bring you this year's theme: ***"Converging Horizons."***

Converging Horizons isn't just a theme—it's the reality shaping how the USAF and USSF train, plan, analyze, and decide.

Our CMSO, SAF/SA, and STARCOM teams have put together a comprehensive agenda for you over the next few days. Please seize this opportunity to network, discuss current and future MS&A activities, tackle shared challenges, explore collaboration opportunities, and expand your understanding of how MS&A supports our Airmen and Guardians.

- SAF/SA Mission: To Shed Light... Modeling, Simulation, and Analytic Excellence at the Speed of Relevance.
- CMSO Mission: Advance warfighting lethality by collectively forging reusable, common, and interoperable M&S-enabled capabilities yielding informed decisions on investments and competitive advantages vital to air, space, and cyber power.
- STARCOM Mission: Forge the world's most combat-credible space force.

The **DAF Modeling, Simulation, and Analytics Summit** is now the premier annual forum for advancing capability, accelerating integration, and strengthening the Department of the Air Force's decision advantage.

Join us as we shape the future—together.

CMSO
Mr. Richard N. Tempalski, HQE, DAF
Chief Modeling and Simulation Officer,
Chief Modeling and Simulation Office,
Department of the Air Force

SAF/SA
Mr. William D. Dries, Jr., SES
Acting Director, Headquarters Air Force
Studies & Analysis, Office of the Secretary
of the Air Force

STARCOM
Maj Gen James E. Smith, USSF
Commander, Space Training
and Readiness Command

Scan QR for updated agenda

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Event Information

Summit Badge	For security purposes, please wear your Summit badge at all times while in the hotel. You will not be permitted to enter the sessions without it. Please remember to remove your badge when leaving the hotel property.
Payments	If you need to settle your registration fee or need a copy of your receipt, please see an NTSA representative at the registration desk.
Exhibits	Be sure to check out each of the exhibits! The exhibitors are located in the Constellation Ballroom of the Hotel Polaris. Sufficient time has been allotted throughout the agenda to give you an opportunity to visit the exhibits.
Refreshments	Meals will be provided for Full Conference Academia, Industry, and paid Military/Government attendees. A list of local dining options will also be available at the registration desk.
Slido	We will be using Slido to submit questions for some sessions. Website: Slido.com Code: DAFMSAS26
Online Agenda	Scan the QR code for the most up to date agenda.
Survey & Participant List	You'll receive a survey and list of attendees (name and organization) via email a few days after the conference. Please complete the survey to make the DAFMSA Summit even more successful in the future.
Dress Code	Military: Utility Uniform Civilian: Business Casual Speakers: Per Panel Instructions

Schedule-At-A-Glance

Tuesday, 5 May

Registration Open
Ballroom Foyer
0645 – 1700

Continental Breakfast
Constellation Ballrooms
0715 – 0815

Exhibit Hall Open
Constellation Ballrooms
0715 – 1830

General Session
Generations Ballroom
0815 – 1000

Networking Break & Exhibit Hall
Constellation Ballrooms
1000 – 1030

General Session
Generations Ballroom
1030 – 1200

Lunch & Exhibit Hall
Generations Ballroom/Terrace
1200 – 1300

Briefing Breakouts
See Agenda for Rooms
1300 – 1400

Networking Break & Exhibit Hall
Constellation Ballrooms
1400 – 1415

Briefing Breakouts
See Agenda for Rooms
1415 – 1515

Networking Break & Exhibit Hall
Constellation Ballrooms
1515 – 1530

Briefing Breakouts
See Agenda for Rooms
1530 – 1700

Opening Networking Reception
Constellation Ballrooms
1700 – 1830

Wednesday, 6 May

Registration Open
Ballroom Foyer
0700 – 1700

Continental Breakfast
Constellation Ballrooms
0715 – 0815

Exhibit Hall Open
Constellation Ballrooms
0715 – 1700

General Session
Generations Ballroom
0815 – 1015

Networking Break & Exhibit Hall
Constellation Ballrooms
1015 – 1030

General Session
Generations Ballroom
1030 – 1145

Lunch & Exhibit Hall
Generations Ballroom/Terrace
1145 – 1300

Briefing Breakouts
See Agenda for Rooms
1300 – 1400

Networking Break & Exhibit Hall
Constellation Ballrooms
1400 – 1415

Briefing Breakouts
See Agenda for Rooms
1415 – 1515

Networking Break & Exhibit Hall
Constellation Ballrooms
1515 – 1530

Briefing Breakouts
See Agenda for Rooms
1530 – 1700

Thursday, 7 May

Registration Open
Ballroom Foyer
0700 – 1500

Continental Breakfast
Constellation Ballrooms
0715 – 0815

Exhibit Hall Open
Constellation Ballrooms
0715 – 1500

General Session
Generations Ballroom
0815 –1015

Networking Break & Exhibit Hall
Constellation Ballrooms
1015 – 1030

STEM Tour
Constellation Ballrooms
1030 – 1300

General Session
Generations Ballroom
1030 – 1130

Lunch & Exhibit Hall
Generations Ballroom/Terrace
1130 – 1215

Analytic Awards Ceremony
Generations Ballroom
1215 – 1315

Networking Break & Exhibit Hall
Constellation Ballrooms
1315 – 1330

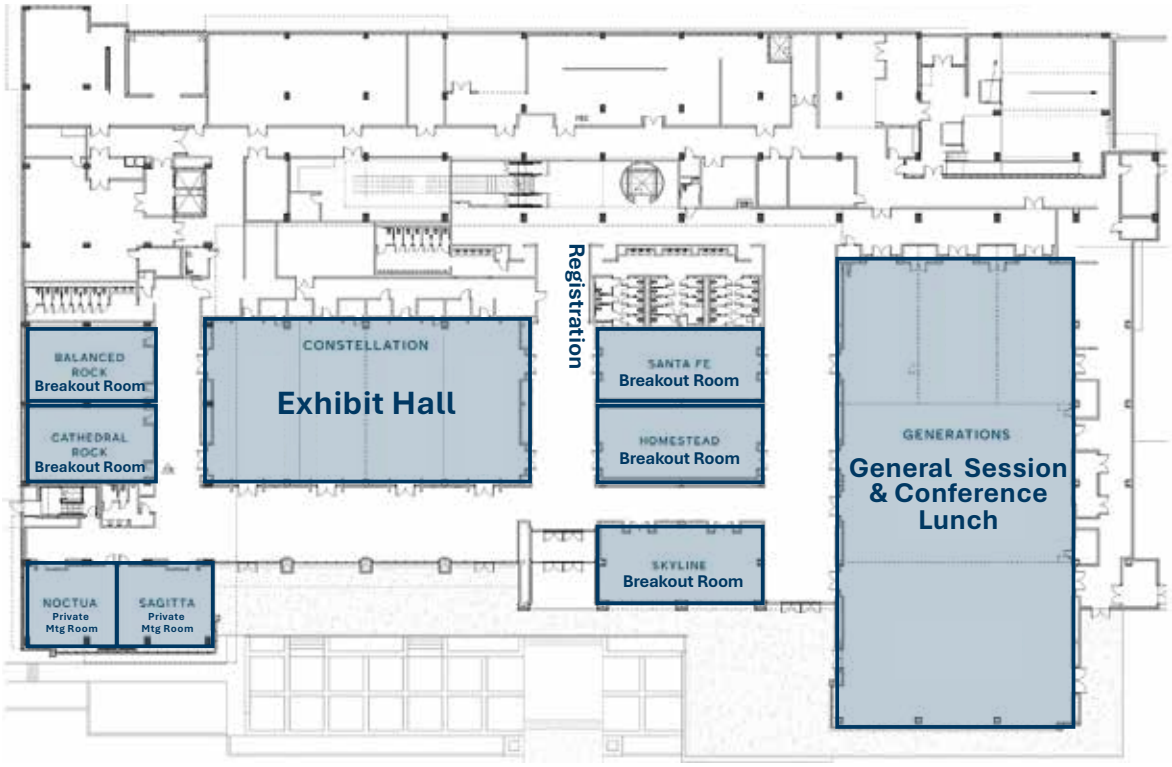
Briefing Breakouts
See Agenda for Rooms
1330 – 1515

Networking Break & Exhibit Hall
Constellation Ballrooms
1515 – 1530

Briefing Breakouts
See Agenda for Rooms
1530 – 1600

Scan QR for updated agenda

Event Floorplan



Leadership & Keynote Biographies

Tuesday, 5 May | 0830 – 0900 | Generations Ballroom

Hon. Matthew Lohmeier • *Under Secretary of the Air Force*

Matthew Lohmeier is the 29th Under Secretary of the Air Force. As the second-highest ranking civilian official, he is responsible for organizing, training and equipping the U.S. Air Force and U.S. Space Force. Mr. Lohmeier oversees an annual budget exceeding $200 billion, provides air and space forces to combatant commanders in support of global military operations and is accountable for the welfare of nearly 680,000 active duty, Guard, Reserve and civilian Airmen and Guardians and their families. Prior to his appointment as Under Secretary, Lohmeier was Executive Vice President of the education-based nonprofit STARRS, Inc., and was a public speaker and consultant, educating audiences on the need for a strong, non-partisan military as the fundamental foundation of our national defense. Engaging audiences throughout the country, he sought to elevate the national security discourse in alignment with the Department of Defense's vision of Restoring the Warrior Ethos and a Focus on Warfighting, Rebuilding the Military and Reestablishing Deterrence. Uniquely, Mr. Lohmeier is a veteran of both the U.S. Air Force and the U.S. Space Force. A 2006 graduate of the U.S. Air Force Academy, he served on active duty as a fighter pilot, flying over 1,200 hours in the T-38 and F-15C. At home, he was an instructor pilot, teaching the next generation of U.S and allied aviators. Overseas, he served in the Indo-Pacific theater, maintaining combat readiness and reassuring our partners of American resolve in the DOD's most strategic area of responsibility. Following his transfer into the U.S. Space Force, Mr. Lohmeier was entrusted with command of our nation's $18 billion space-based missile warning architecture, leading a combined team of U.S. and allied operators. Mr. Lohmeier has two post-graduate degrees—a Master of Military Operational Art and Science and a Master of Philosophy in Military Strategy from the School of Advanced Air and Space Studies, one of the DOD's premier strategy schools.

Tuesday, 5 May | 1030 – 1200 | Generations Ballroom

Mr. William D. Dries, Jr., SES • *Acting Director, Headquarters Air Force Studies & Analysis, Office of the Secretary of the Air Force*

Mr. William D. Dries, Jr., a member of the Senior Executive Service, is the Acting Director, Headquarters Air Force Studies & Analysis, Office of the Secretary of the Air Force, the Pentagon, Arlington, Virginia. He is responsible for the development of Air and Space Force-wide policy, guidance, modeling, simulation, and analyses that inform Air and Space Force leadership decisions concerning current and future warfighting capabilities.

Mr. Dries served on active duty in the Air Force from 1988 to 2011 in a variety of operational, training, and staff assignments. He commanded at the squadron level, deployed three times, and accumulated more than 3,000 flying hours, including over 500 combat hours. Following his active-duty retirement, he transitioned to federal civil service in 2012. Prior to his current position, Mr. Dries served as Deputy Director of Training and Readiness on the Air Staff, responsible for policy, guidance, and oversight of Air Force operational training infrastructure, officer and enlisted operations career field management, operational readiness and reporting, and aircrew management.

Mr. Dries was appointed to the Senior Executive Service in 2022.

Tuesday, 5 May | 1030 – 1200 | Generations Ballroom

Maj Gen James E. Smith, USSF • *Commander, Space Training and Readiness Command (STARCOM)*

Maj. Gen. James E. Smith is the Commander, Space Training and Readiness Command, headquartered at Patrick Space Force Base, Florida. As Commander he is responsible for preparing the U.S. Space Force and more than 14,000 military and civilian Guardians to prevail in competition and conflict through innovative education, training, doctrine and test activities.

Originally from Boise, Idaho, Maj. Gen. Smith commissioned in 1997 as the top graduate of the U.S. Air Force Academy. His career spans numerous space operations and acquisition positions including command at the squadron, group, wing, garrison and Field Command levels. His staff assignments include Headquarters, North Atlantic Treaty Organization; Headquarters, Air Force Space Command; the Air Staff; the Space Staff; and the Joint Staff.

Maj. Gen. Smith has deployed to Afghanistan in support of Operation Enduring Freedom and to the U.S. Embassy in Iraq in support of Operation Inherent Resolve. Prior to his current position, Maj. Gen. Smith served as the Vice Director, Joint Force Development, J-7, the Joint Staff, Arlington, Virginia.

Tuesday, 5 May | 0900 – 1000 | Generations Ballroom

Mr. Richard Tempalski, HQE, DAF • *Chief Modeling and Simulation Officer, Chief Modeling and Simulation Office (CMSO)*

Mr. Richard Tempalski, a Department of the Air Force (DAF) designated Highly Qualified Expert (HQE), serves as the Chief Modeling and Simulation Officer (CMSO). As the CMSO, he leads this newly established mission in overseeing DAF modeling and simulation investments, circa 3 Billion dollars, and opportunities while looking for optimization across the Enterprise. Tempalski engages with stakeholders in the U.S. Department of Defense (DoD), academia, industry, federal agencies, and coalition partners, to identify, initiate, and revise policy, develop the workforce, and establish modeling and simulation (M&S) architecture standards. Tempalski is also leading the work to design a knowledge management system enabling re-use of resources, as well as developing an M&S certification mechanism for Major Defense Acquisition Programs in support of Milestone A reviews.

Tempalski has over 32 years' experience in the U.S. Department of Defense, with the majority being in the research and development (R&D) community, developing modeling and simulation capabilities, and creating systems and processes for advanced analytics. In addition to his experience in R&D, Tempalski served as an active duty officer in the Air Force and as an enlisted member in the U.S. Army Reserve.

Prior to assuming his current position as CMSO for the Department of the Air Force, Tempalski worked in the Adaptive Capabilities Office (ACO) within the Defense Advanced Research Projects Agency (DARPA) as the Modeling and Simulation Program Manager, where he was responsible for development of M&S architectures enabling the vetting of novel, joint warfighting constructs. He also served in the Office of Naval Intelligence (ONI) as head of the Modeling & Simulation Division, where he executed and oversaw all aspects of the production and experimentation of verified and validated models. In addition to this role at ONI, Tempalski was principal for the Maritime GEOINT Intelligence Cell (MaGIC) and was instrumental in designing and building ONI's Advanced Visualization Environment Laboratory. He also served as the Naval Intelligence liaison to Fleet Cyber Command, and as a senior engineer, enhancing modeling and simulation capability for threat-based systems. Tempalski holds a Master of Science in engineering management and technology management and a Bachelor of Science in electronics engineering.

Wednesday, 6 May | 0915 – 1015 | Generations Ballroom

Mr. Mark D. Stankiewicz • *Acting Director, Modeling and Simulation, Secretary of the Air Force Office of Studies and Analysis*

Mr. Mark D. Stankiewicz is Acting Director, Modeling and Simulation, Secretary of the Air Force Office of Studies and Analysis, the Pentagon, Arlington, Virginia. He is responsible to the Director of SAF/SA, the Secretary, the Chief of Staff of the Air Force, and the Chief of Space Operations for implementing the DAF enterprise modeling and simulation strategy as defined by the Chief Modeling and Simulation Officer.

He leads a military, civilian, and contractor team examining and developing architectures to provide the DAF with a model repository, shared license library and single login authentication across networks. His team manages the Advanced Framework for Simulation (AFSIM) at the joint and enterprise level and is responsible for the development of the next generation of campaign analytic tools for the DoD. He sits as the Air Force's liaison to the Office of the Secretary of Defense Analytic Working Group's Modeling and Simulation sub-group.

Mr. Stankiewicz has over 24 years of experience in the U.S Department of Defense, with the majority spent as an operations research analyst for the Department of the Air Force developing strategic analysis and creating models. Mr. Stankiewicz started out designing manufacturing equipment in Massachusetts. In 1997 he moved to the DC area to design ship parts for the Navy as a contractor. He worked on the DDG 51 class Destroyers and the PMS 385 Strategic Sealift programs. In 1999 he moved contracting firms to support the Air Force where he performed mission level analysis supporting Air Force POM scenarios in Air Force Studies and Analyses office. In 2005 Mr. Stankiewicz was detailed to support Air Force Checkmate providing strategic analytic support to current day operations. In addition to his experience with the Air Force, he served as an analyst for the Joint Staff J-8 Warfighting Analysis Directorate analyzing and assessing current day operations plans. He spent five years as a technical advisor for future warfare analysis reviewing and ensuring the analytic integrity of studies and analyses and managing the resources and computing required to perform speed-of-relevance analysis informing senior leader decisions on future warfighting capabilities and resource allocation.

Throughout his career Mr. Stankiewicz has gained experience in many of the modeling and simulation tools that are used throughout the Department of Defense. He came over to the civilian service in 2008.

Wednesday, 6 May | 0825 – 0910 | Generations Ballroom

Dr. Eliahu (Eli) H. Niewood • *Director, Integrated Capabilities Office, Department of the Air Force*

Eliahu (Eli) H. Niewood is the Director of the Integrated Capabilities Office in the Department of the Air Force. In this role, he supports the development of integrated modernization plans for the Air Force and Space Force. He is responsible for facilitating the efforts of Integrated Development Campaign teams to provide data driven solutions to imperative operational problems. ICO will work with Integrated Capabilities Command and Space Futures Command to optimize capability development and modernization across the Department. Previously, Niewood served as vice president, Air and Space Forces, in MITRE's National Security (MNS) Sector. Niewood set strategy and priorities to ensure MITRE delivered technical capabilities to meet the Air Force and Space Force's most critical mission objectives and priority efforts. These included needs in space warfighting, air operations, nuclear enterprise modernization, cyber operations and multi-domain operations. He previously was vice president, Cross-cutting and Intelligence, leading MITRE's efforts to identify national security problems that require joint and multi-agency solutions and to shape MITRE's and the nation's response to those problems. He also led MITRE in applying systems engineering, technology expertise, and innovation to help the intelligence and federal law enforcement communities leverage cutting-edge technology for mission success, integrate across agencies, and operate effectively in a dynamic environment. He joined MITRE in 2017, bringing rich experience in systems analysis and tactical system technologies. Previously, Niewood was a technical adviser to the director of the U.S. Air Force Rapid Capabilities Office. He also served as head of the Engineering Division at the MIT Lincoln Laboratory, where he oversaw mechanical, aerospace, and control systems engineers building space payloads and aircraft sensor systems. From 2011 to 2014, Niewood chaired the Air Force Scientific Advisory Board, a Federal Advisory Committee of 50 national experts in science and technology fields. He was a member of the Defense Science Board Task Force on unexploded ordnance. Niewood holds bachelor's, master's, and doctoral degrees in aeronautics and astronautics from the Massachusetts Institute of Technology.

Thursday, 7 May | 0825 – 0910 | Generations Ballroom

Mr. Matthew Quinn • *CEO, Data Machines*

Matthew "Quinn" Quinn serves as CEO of Data Machines, where he drives the company's strategic vision and leads a dynamic, collaborative culture centered on innovation and growth. With over 20 years of experience spanning industry, academia, and government, Quinn is a results-driven leader recognized for his ability to align teams, strategy, and execution to achieve exceptional outcomes. Known for his entrepreneurial approach and forward-thinking leadership, Quinn has a proven record of securing funding for high-impact R&D initiatives and transitioning groundbreaking technologies to warfighters and decision-makers. He thrives in navigating complex, sensitive programs, fostering a balance of technical depth and strategic foresight that empowers his teams to deliver creative, scalable solutions to critical challenges. Under Quinn's leadership, Data Machines has solidified its reputation as a trusted partner, particularly in federal markets, excelling at delivering secure, scalable cloud environments and cutting-edge capabilities in DevSecOps, AI/ML, and advanced modeling and simulation. His hands-on, team-oriented leadership style ensures a clear alignment between the company's mission and the value it delivers to customers and communities alike. Quinn holds a Master of Engineering Management from Penn State University and a B.S. in Computer Science with a Mathematics minor from Bloomsburg University. Prior to joining Data Machines, he built a distinguished 17-year career at Penn State's Applied Research Laboratory, where he progressed from software developer to Division Director, overseeing major initiatives in DevSecOps, ML/AI, Experimentation, and Modeling & Simulation. Quinn's leadership philosophy is rooted in empowering teams, fostering collaboration, and championing innovation, driving Data Machines to continually redefine what's possible in today's rapidly evolving technology landscape.

Scan QR for updated agenda

Agenda

As of 1 May 26

MONDAY, 4 MAY

1300 – 1700 Early Registration Check-in
BALLROOM FOYER

1700 – 1800 NTSA Speakers Reception – Invite Only
CONSTELLATION TERRACE • INVITE ONLY FOR AUTHORS & CONFERENCE LEADERSHIP

TUESDAY, 5 MAY

0645 – 1700 Registration Open
BALLROOM FOYER

0715 – 0815 Continental Breakfast
CONSTELLATION BALLROOMS
*Included in paid conference package with meals only

0715 – 1830 Exhibit Hall Open
CONSTELLATION BALLROOMS

0815 – 0830 Day One Welcome Remarks
GENERATIONS BALLROOM

Dr. Brian McBee
Portfolio Lead, Model-Based Systems Engineering & Analysis, Space Vehicles Directorate - Air Force Research Laboratory (AFRL)

0830 –0900 Keynote: U.S. Air Force Senior Leader
GENERATIONS BALLROOM

Hon. Matthew Lohmeier
Under Secretary of the Air Force - Department of the Air Force

SCHOLARSHIP AWARDS PRESENTATION

Mr. Richard Tempalski, HQE, DAF
Chief Modeling & Simulation Officer - Chief Modeling and Simulation Office (CMSO)

VADM Sean Buck, USN (Ret.)
President, National Training and Simulation Association (NTSA)

0900 –1000 DAF M&S Update
GENERATIONS BALLROOM

Mr. Richard Tempalski, HQE, DAF
Chief Modeling & Simulation Officer - Chief Modeling and Simulation Office (CMSO)

1000 – 1030 Networking Break & Exhibit Hall
CONSTELLATION BALLROOMS

NTSA Scholarship Winner

The Annual RADM Fred Lewis Postgraduate Scholarships are offered to stimulate student interest and university participation in preparing individuals for leadership in the Modeling & Simulation, Training, and Education communities. RADM Fred Lewis served as the NTSA President from 1995 – 2012 and initiated important core programs to identify and credential a professional workforce and established educational programs to stimulate interest in M&S careers at all grade levels. RADM Lewis knew that by investing in our future workforce, these scholarships will encourage expansion of the community and promote innovation through direct investment in our community's future leaders.

Carlie Swords
Human Factors, Florida Institute of Technology

1030 – 1200 Panel: Senior Leadership Discussion

GENERATIONS BALLROOM

The Department of the Air Force is reshaping to meet the demands of a rapidly evolving global landscape. Central to this effort is our ability to design, test, and validate warfighting concepts in realistic digital environments. In this panel, key leaders will discuss how Modeling and Simulation, backed by robust analysis, are the crucibles for forging our competitive edge. This discussion will highlight how advanced M&S environments are foundational to developing the interconnected kill webs and autonomous systems required to deter our adversaries, a priority outlined in the Department's latest posture statement. The conversation will focus on integrating these powerful digital tools across the air and space domains to accelerate capability development, foster innovation, and forge the force of the future.

MODERATOR: Mr. William D. Dries, Jr., SES
Acting Director, Headquarters Air Force Studies & Analysis - Office of the Secretary of the Air Force

Lt Gen Donna D. Shipton, USAF
Commander - Air Force Life Cycle Management Center (AFLCMC)

Maj Gen James E. Smith, USSF
Commander - Space Training and Readiness Command (STARCOM)

Ms. Susan K. Davenport, SES
Chief Data and Artificial Intelligence Officer (CDAO) - Department of the Air Force, Office of the Chief Information Officer

Mr. Thomas J. Lawhead, SES
Assistant Deputy Chief of Staff, Strategy, Integration and Requirements - Headquarters U.S. Air Force

1200 – 1300 Lunch & Exhibit Hall

*Included in paid conference package with meals only

1300 – 1400 Briefing Breakouts

Cross Cutting Technologies
1300 – 1330
BALANCED ROCK

A Federated Semi-Supervised Approach to Predicting Parkinson's Disease Severity

Dr. Jennifer Allsop
AETC/SAS

Simulation
1300 – 1330
CATHEDRAL ROCK

CoDA: An Agentic AI–Enabled Course-of-Action Analysis with Physics-Trusted Model Integration

Dr. Paul Cummings
Booz Allen Hamilton, Inc.

Policy, Standards, Data
1300 – 1330
SANTA FE

From Model-Centric to Data-Centric M&S: Enabling Analytics, AI, and Reuse at Scale

Sonia von der Lippe
FuturaSage, LLC

Emerging Technologies
1300 – 1330
HOMESTEAD

Neuromorphic Correlated Tracks for an Integrated Cockpit Display

Daniel Barber
Southwest Research Institute

Decision Support
1300 – 1330
SKYLINE

Revolutionizing Air Force Wargaming: FORECAST, An Organic Decision Support Toolkit

Matthew Ledwith
HQ AFMC/A9AA

Cross Cutting Technologies
1300 – 1400
GENERATIONS BALLROOM

Building Multinational Readiness through the NATO Distributed Synthetic Training (DST) Capability

Dr. Robert Siegfried
NATO DST

Cross Cutting Technologies
1330 – 1400
BALANCED ROCK

A Decade of USAF XR: Lessons Learned, Gaps, and Trends

CJ Hale
HTX Labs

Policy, Standards, Data
1330 – 1400
SANTA FE

AI-Enabled Knowledge Discovery in Multi-Level Security Environments

David Marshburn
SimVentions

Cross Cutting Technologies
1330 – 1400
SKYLINE

Bio-Inspired Swarm Intelligence through Integrated Evolutionary and Deep Learning Methods

Dr. David Hillstrom
Infinity Labs, LLC

1345 – 1400 Advancing Allied Readiness: NATO Distributed Synthetic Training HVP Signing Ceremony

GENERATIONS BALLROOM

Join us for the formal signing of the NATO Distributed Synthetic Training High Visibility Project Confidentiality and Security Arrangement. This important milestone marks the U.S. participation as an Associated Member in a multinational, three-year effort to advance secure, distributed training and mission rehearsal capabilities. With fourteen nations already committed, the initiative underscores the growing importance of international collaboration in modeling and simulation. Don't miss this opportunity to witness a key moment in allied cooperation and the future of distributed synthetic training.

Mr. Richard Tempalski, HQE, DAF
Chief Modeling & Simulation Officer - Chief Modeling and Simulation Office (CMSO)

Dr. Robert Siegfried
Chair - NATO Distributed Synthetic Training (DST) Capability High Visibility Project (HVP)

1400 – 1415 Networking Break & Exhibit Hall
CONSTELLATION BALLROOMS

1415 – 1515 Briefing Breakouts

Policy, Standards, Data
1415 – 1445
SANTA FE

Expanding the Reach of Operations Analysis within Air Combat Command

LtCol Micah Hafich
USAF ACC OAS

Emerging Technologies
1415 – 1445
HOMESTEAD

Agentic AI Knowledge Assistants for the Full Defense Acquisition Lifecycle

Mark Kaschner
Amazon Web Services (AWS)

Decision Support
1415 – 1445
SKYLINE

Decision Advantage Modeling for Command and Control

Camden Long
Air Force Active Duty - 325th Maintenance Squadron - Tyndall AFB

Training
1415 – 1445
GENERATIONS BALLROOM

Training the Next Generation of AI-Ready Air Force Analysts

Dr. Brianna Hitt
United States Air Force Academy

Training
1445 – 1515
BALANCED ROCK

An End to End AI Pipeline for Immersive Training Content Generation

JoAnn Archer
Design Interactive

Cross Cutting Technologies
1445 – 1515
CATHEDRAL ROCK

Elevating Existing System Interfaces and Architectures into the Environment Data Mesh

Douglas Gill
FlightSafety International

Policy, Standards, Data
1445 – 1515
SANTA FE

Scenario Decomposition for Mission Context Traceability in Simulation

Jonathan Andrews
Trideum Corporation

Emerging Technologies
1445 – 1515
HOMESTEAD

AI-Accelerated RF Signal Analytics at Speed

Mark Kaschner
Amazon Web Services (AWS)

Decision Support
1445 – 1515
SKYLINE

Addressing Multi-System Data Federation for Observation Collection

Andrei Dylan Magistrado
HQ AMC/A9

Simulation
1445 – 1515
GENERATIONS BALLROOM

Evolving Fidelity Requirements for Visual Systems in USAF Pilot Training Simulators: Lessons Learned and Recommendations

Mark Parsons
SAIC

1515 – 1530 Networking Break & Exhibit Hall
CONSTELLATION BALLROOMS

1530 – 1700 Briefing Breakouts

Cross Cutting Technologies
1530 – 1600
BALANCED ROCK

Sustaining Lifesaving Skills: Mobile XR for Medical Readiness

JoAnn Archer
Design Interactive

Cross Cutting Technologies
1530 – 1600
CATHEDRAL ROCK

USAFA Operations Research – Students Developing Analytic Solutions to Sponsors/Customers

Dr. Gerry Gonzalez
United States Air Force Academy

Simulation
1530 – 1600
SANTA FE

Embedding Adversarial Supply Chain Risk into Air and Space Force Modeling Environments

Clinton West
Aardwolf Global Solutions

Simulation
1530 – 1600
HOMESTEAD

Rapid Development of Effects-Based Simulations using Open-Source Frameworks

James Arruda
Georgia Tech Research Institute

Simulation
1530 – 1600
SKYLINE

Point Cloud Generation for Damage Assessment over Ukraine Region

Tomas Diaz
Karagozian & Case, Inc.

Emerging Technologies
1530 – 1600
GENERATIONS BALLROOM

STARBUCKs: Scoring, Tooling, and Agentic RAG for Building Understanding, Citations, and Knowledge in High-Stakes Environments

Gregory Winkler
U.S. Air Force

Emerging Technologies
1600 – 1630
BALANCED ROCK

Adventures in Vibe Coding for M&S Interface Prototyping

Christina Padron
Redshred

Simulation
1600 – 1630
CATHEDRAL ROCK

Evaluating Replenishment Policies for Proliferated LEO Constellations

Dr. Gerry Gonzalez
United States Air Force Academy

Training
1600 – 1630
SANTA FE

Why Physics-based Data Matters for Simulation, Training, and Algorithms

Michael Buttram
Information Systems Laboratories

Cross Cutting Technologies
1600 – 1630
HOMESTEAD

Digital Twin Environment for Space Systems Development and Operations

Justin Morris
NASA

Decision Support
1600 – 1630
SKYLINE

Compound AI Agents and Digital Twins for Multi-Domain Wargaming

Dr. Will Dupree
Aptima, Inc.

Decision Support
1600 – 1630
GENERATIONS BALLROOM

Air Mobility Command's Elcano Allocation System

Hannah Garwood
U.S. Air Force/Air Mobility Command

Policy, Standards, Data	Simulation	Training	Emerging Technologies	Decision Support	Cross Cutting Technologies
1630 – 1700	1630 – 1700	1630 – 1700	1630 – 1700	1630 – 1700	1630 – 1700
BALANCED ROCK	CATHEDRAL ROCK	SANTA FE	HOMESTEAD	SKYLINE	GENERATIONS BALLROOM
Role of the Prime Integrator in MOSA Ecosystems Jorge Cisternas Aptima, Inc.	**Accelerating Doctrine Updates for M&S Behavior Models Through Structured Document Intelligence** Christina Padron Redshred	**Behavior-Based Performance Modeling in Simulation-Based Pilot Training** Dr. Audrey Zlatkin Design Interactive	**Closing the Sim-to-Real Gap with Conditioned Diffusion Models for Mission Autonomy** Dr. John Kalantari YRIKKA	**AI for Mission Planning, Analysis & Rehearsal** Gary DeYoung Battlespace Simulations, Inc.	**Space and Counter-space in STORM: a Survey of Mission Areas, Successes & Challenges** Richard Shertzer KBR

1700 – 1830 **Opening Networking Reception & Exhibit Hall**

CONSTELLATION BALLROOMS

The opening reception is a networking event for industry, academia, and government attendees involved in the modeling, simulation and analytics community. Participants will have the chance to network and visit exhibitors to discover the latest in MS&A technology.

WEDNESDAY, 6 MAY

0700 – 1700 **Registration Open**

BALLROOM FOYER

0715 – 0815 **Continental Breakfast**

CONSTELLATION BALLROOMS

0715 – 1700 **Exhibit Hall Open**

CONSTELLATION BALLROOMS

0815 – 0825 **Day Two Opening Remarks**

GENERATIONS BALLROOM

Dr. Brian McBee
Portfolio Lead, Model-Based Systems Engineering & Analysis, Space Vehicles Directorate - Air Force Research Laboratory (AFRL)

0825 – 0915 **Keynote: U.S. Space Force Senior Leader**

GENERATIONS BALLROOM

Dr. Eliahu (Eli) H. Niewood
Director, Integrated Capabilities Office - Department of the Air Force

0915 – 1015 ## Panel: Analysis Power

GENERATIONS BALLROOM

This panel convenes the Department of War's most senior analytical leaders who provide the data-driven insights that shape major budget, acquisition, and strategic decisions. For the Department of the Air Force, understanding this enterprise-level analytical framework is critical to successfully justifying and shaping its modernization priorities for air and space dominance. The discussion will provide direct insights into how the DAF can best align its programs and analyses with the methodologies valued by DOW analysis groups.

MODERATOR: Mr. Mark Stankiewicz
Acting Director, Modeling and Simulation - Secretary of the Air Force Office of Studies and Analysis

Dr. Steven A. Stoddard, SES
Director, Center for Army Analysis and Director, Army Modeling and Simulation Office - Headquarters, Department of the Army

Mr. Tucker D. Hughes, SES
Deputy Director for Studies and Analysis (DDSA) - Joint Staff's Force Structure, Resources and Assessment Directorate (J-8)

Dr. Julia Phillips
Technical Advisor - SAF Studies and Analysis Agency

Ms. Lauren Murphy
Acting Deputy Director for Analysis & Innovation - OSW-CAPE

Mr. William S. (Stew) Sharp
Senior Leader Associate Director, Campaign Analysis and Modeling - OPNAV N81C

Dr. Mike Garrity
CEO - Aptima, Inc.

1015 – 1030 ## Networking Break & Exhibit Hall

CONSTELLATION BALLROOMS

1030 – 1130 ## Panel: M&S and Multi-Domain

GENERATIONS BALLROOM

This panel convenes senior leaders from across the U.S. Air Force, U.S. Space Force, and the space industry to provide a comprehensive look at the pivotal role of Modeling and Simulation (M&S) in modernizing national defense. The discussion offers an opportunity to hear directly from the key decision-makers responsible for the entire capability lifecycle, from foundational research to operational command and control. Ultimately, this session is essential for anyone seeking to understand the digital transformation and strategic imperatives that are defining the future of multi-domain operations and M&S enabling capabilities.

MODERATOR: Ms. Kris Acosta, SES
Deputy Director, Space Systems Integration Office - Space Systems Command (SSC)

Dr. Heather Pringle, Maj Gen USAF (Ret.)
Chief Executive Officer - Space Foundation

Dr. Russell E. Partch, SES
Director, Space Warfighting Analysis Center (SWAC)

Mr. Arthur Huber II, SES
Executive Director - Air Force Test Center (AFTC)

Mr. Michael W. Johanek, SES
Director of Intelligence Analysis, Partnership and Engagement, Deputy Chief of Staff for Intelligence, Surveillance, Reconnaissance and Cyber Effects Operations - Headquarters U.S. Air Force

1145 – 1300 ## Lunch & Exhibit Hall

*Included in paid conference package with meals only

1300 – 1400 Briefing Breakouts

Decision Support	Training	Simulation	Decision Support	Training	Decision Support
1300 – 1400	1300 – 1330	1300 – 1330	1300 – 1330	1300 – 1330	1300 – 1400
BALANCED ROCK	CATHEDRAL ROCK	SANTA FE	HOMESTEAD	SKYLINE	GENERATIONS BALLROOM
Wargaming for the Space Domain Workshop Damian Ochs Space Delta 10	**Predictive Cognitive Modeling for Air and Space Training** Lawrence Franchini HarmonEyes	**A Government-Led Open-Source Architecture for Transforming the M&S Enterprise** Omar Valverde KBR, Inc.	**Measuring Impacts of AI-Assisted Adjudication in Live Wargaming** Brian Hall New York University / AlphaPlay AI	**The Challenges of Using Surrogate ORBATs in Wargames** Devin Norrell U.S. Air Force CUI*	**AI Approach for Addressing the Data Layer of Model Integration – MAPPy.ai** Arvin Alvarez STRATCOM J81

Cross Cutting Technologies	Training	Simulation	Decision Support
1330 – 1400	1330 – 1400	1330 – 1400	1330 – 1400
CATHEDRAL ROCK	SANTA FE	HOMESTEAD	SKYLINE
Explaining Ethical Decision-Making in Human-Machine Teams Richard Niemeyer United States Air Force Academy	**Boosting Training Efficiency through Automated Careerlong Learner Performance Evaluation** Robert Siegfried Aditerna GmbH	**Virtual Range Architecture: Hybrid AI for Space Simulation** Allan Grosvenor MSBAI	**A Methodology for Quantifying Infrastructure Risk-to-Mission** Capt Matthew Sauer U.S. Air Force CUI*

1400 – 1415 Networking Break & Exhibit Hall
CONSTELLATION BALLROOMS

1415 – 1515 Briefing Breakouts

Emerging Technologies	Cross Cutting Technologies	Emerging Technologies	Policy, Standards, Data	Training	Simulation
1415 – 1445	1415 – 1445	1415 – 1445	1415 – 1445	1415 – 1445	1415 – 1445
BALANCED ROCK	CATHEDRAL ROCK	SANTA FE	HOMESTEAD	SKYLINE	GENERATIONS BALLROOM
Narrative Analytics: Extracting Executable Simulation Models from Natural Language Text Dr. H. Parunak Parallax Advanced Research	**Adaptive Biofeedback Testbed for Human–Robot Interaction** Mikayla McBride United States Air Force Academy	**Voice-Informed Autonomous Wingman with Heart Rate Variability Fusion: Dual-Modal Cognitive State Detection for Adaptive Human-Autonomy Teaming** Ancuta Margondai University of Central Florida	**Transforming Leadership: Joint Doctrine and AI for Proactive M&S Innovation** Maj Caleb Werner U.S. Space Force	**Machine Learning Applied to MH-139A Live Fire Testing** Elizabeth Berta 96TW/413th FLTS CUI*	**Scalable Markovian Analyses on Complex Mission Simulations** Dr. David Hillstrom Infinity Labs, LLC

Simulation	Cross Cutting Technologies	Emerging Technologies	Policy, Standards, Data	Policy, Standards, Data	Decision Support
1445 – 1515	1445 – 1515	1445 – 1515	1445 – 1515	1445 – 1515	1445 – 1515
BALANCED ROCK	CATHEDRAL ROCK	SANTA FE	HOMESTEAD	SKYLINE	GENERATIONS BALLROOM
Using the Behavior Modeling Language to Create a Mission Model Dale Ormond Ormond Consulting, LLC	**Evaluating Cognitive Security in Operational Command-and-Control Environments** Victoria Leppert United States Air Force Academy	**Adaptive Transparency for Trust Calibration in Pilot-Autonomous Wingman Teaming** Ancuta Margondai University of Central Florida	**Competencies: The Missing Link that Digitizes the Human for More Effective Human–Machine Teaming** Dr. Kent Halverson Aptima, Inc.	**The Digital "Test and Evaluation" Transformation** Chante Baker 780th Test Squadron CUI*	**Mission-Engineered Network Communications Resiliency for C-UAS Base Defense** Kevin Benson The MITRE Corporation

1515 – 1530 Networking Break & Exhibit Hall
CONSTELLATION BALLROOMS

*CUI – Approved ID required to attend

1530 – 1700 Briefing Breakouts

Decision Support	Training	Emerging Technologies	Simulation	Decision Support	Emerging Technologies
1530 – 1600	1530 – 1600	1530 – 1600	1530 – 1600	1530 – 1600	1530 – 1600
BALANCED ROCK	CATHEDRAL ROCK	SANTA FE	HOMESTEAD	SKYLINE	GENERATIONS BALLROOM
Converging Multi-Stage Personnel Decisions into Integrated Linear Optimization Dr. Gerry Gonzalez United States Air Force Academy	**AI-Enabled Virtual Training for Real-World Assets and Environments** Macy Lundgren Schemata, Inc.	**Speed without Surrender: Preserving Airman Cognitive Resilience in the Age of Agentic AI** Sylvain Bruni Aptima, Inc.	**Use of AI in Air Force Intelligence Training Simulation** Matthew Martin CAE USA	**An Overview of U.S. Air Forces Europe – Air Forces Africa (USAFE-AFAFRICA)'s Point Defense Operational Utility Assessment (OUA)** Christiana Corbett HQ USAFE/A9 **CUI***	**Leveraging Generative AI to Augment Instructor Pilot Expertise in USAF Pilot Training** Mark Parsons SAIC

Policy, Standards, Data	Emerging Technologies	Decision Support	Simulation	Policy, Standards, Data	Cross Cutting Technologies
1600 – 1630	1600 – 1630	1600 – 1630	1600 – 1630	1600 – 1630	1600 – 1630
BALANCED ROCK	CATHEDRAL ROCK	SANTA FE	HOMESTEAD	SKYLINE	GENERATIONS BALLROOM
Insights on the Defense Standards Landscape for Digital Engineering, Modeling & Simulation Scott Schutzmeister Institute for Defense Analyses	**Natural Language AI Generation of Assets for Multimodal Digital Twins and LVC Simulation Environments** David Metcalf University of Central Florida Mixed Emerging Technology Integration Lab (UCF METIL)	**AI-Enabled Decision Support for Contested Ecosystems** Clinton West Aardwolf Global Solutions	**Hybrid Risk-Aware Path Planning for Survivability Against IADS** Younhyuck Chang MOASOFT / Business Planning	**Risk-based Assessments for AI Use Case Reporting** Jason Hepp Department of the Air Force **CUI***	**SCARS and US INDOPACOM LVC** Matthew Martin CAE USA

Policy, Standards, Data	Decision Support	Training	Emerging Technologies	Training	Training
1630 – 1700	1630 – 1700	1630 – 1700	1630 – 1700	1630 – 1700	1630 – 1700
BALANCED ROCK	CATHEDRAL ROCK	SANTA FE	HOMESTEAD	SKYLINE	GENERATIONS BALLROOM
DAF CMSO M&S Standards Handbook for Standards Guidance Ronald Lehmer SAIC	**Quantitative Framework for Optimizing Modernization Prioritization of Mission-Critical Software** Karen Chalfant Silverthread	**Developing Mobile Game-based Learning Wargames using Game Engines** Dr. Summer Rebensky Aptima, Inc.	**ELLMGROVE: Trustworthy Agents with Explainable Decisions for Modeling and Simulation** Eric Wilbanks Assured Information Security, Inc.	**The Impact on Cognition and Motivation Using Gaming, Simulation, and Visual Learning in Military Flight Training** Ariah Elmore iPerformX **CUI***	**Evaluating and Explaining Generative AI System Behaviors for Training Scenario Generation and Mission Planning** Dr. Will Dupree Aptima, Inc.

THURSDAY, 7 MAY

0700 – 1500 **Registration Open**
BALLROOM FOYER

0715 – 0815 **Continental Breakfast**
CONSTELLATION BALLROOMS

0715 – 1530 **Exhibit Hall Open**
CONSTELLATION BALLROOMS

0815 – 0825 **Day Three Opening Remarks**
GENERATIONS BALLROOM
Dr. Brian McBee
Portfolio Lead, Model-Based Systems Engineering & Analysis, Space Vehicles Directorate - Air Force Research Laboratory (AFRL)

***CUI – Approved ID required to attend**

0825 – 0915 ## Keynote: Industry Senior Leader

GENERATIONS BALLROOM

Mr. Matthew Quinn
CEO - Data Machines

0915 – 1015 ## Panel: Digital Space Range

GENERATIONS BALLROOM

In this panel, key leaders will discuss how Modeling and Simulation, backed by robust analysis, are the crucibles for forging our competitive edge. This discussion will highlight how advanced M&S environments are foundational to developing the interconnected kill webs and autonomous systems required to deter our adversaries, a priority outlined in the Department's latest posture statement. The conversation will focus on integrating these powerful digital tools across the air and space domains to accelerate capability development, foster innovation, and forge the force of the future.

MODERATOR: Brig Gen Guy Walsh, USAF (Ret.)
Executive Vice President and Chief Operating Officer - National Defense Industrial Association (NDIA)

Col Jeremy Cotton, USSF
Director, Training, Development, & Force Generation Headquarters - Space Operations Command (SpoC)

Col Maxwell E. Fuldauer, USSF
Combat Credibility Division Chief - Space Training and Readiness Command (STARCOM)

Col Agustin Carrero, USSF
Commander, Space Delta 11 (Ranges & Aggressors, Training & Exercises, Weapons School) - Space Training and Readiness Command (STARCOM)

Mr. F R. Schnell
Deputy Portfolio Acquisition Executive (PAE) for Infrastructure - Operational Test and Training Infrastructure (OTTI)

1015 – 1030 ## Networking Break & Exhibit Hall

CONSTELLATION BALLROOMS

1030 – 1300 ## STEM Tour

CONSTELLATION BALLROOMS

NTSA is focused on filling our workforce pipeline with prospects who are better prepared, more confident, and highly engaged to take on careers in the Science, Technology, Engineering & Math (STEM) fields, particularly those in our industry. As such, NTSA recognizes the critical importance of engaging students early in hands-on STEM activities while supporting educators who are our front line in shaping and building our future workforce. Participating schools: Air Academy High School and the Colorado Springs School of Technology

1030 – 1130 ## Panel: Warfighter/NCO

GENERATIONS BALLROOM

The NCO's role in multiple services for leadership, training and operations are critical. This panel will provide a forum for our NCO Service Members to discuss their training challenges and how M&S will be used to overcome those challenges.

MODERATOR: SMSgt Michael Sullivan, USSF
Senior Enlisted Advisor - Space Delta 12

MSgt Carlos Manzanares, USSF
Superintendent S4 - STARCOM/Delta 10

TSgt Tylar A. Cravens, USAF
Aerospace Propulsions Instructor - 373rd Training Squadron Detachment 15

TSgt Daniel Ramsden, USAF
9I Futures Airman - 82nd Training Support Squadron

1130 –1215 ## Lunch & Exhibit Hall

GENERATIONS BALLROOM

1215 – 1315 ## Department of the Air Force Analytic Community Annual Awards Ceremony

GENERATIONS BALLROOM

The Department of the Air Force Analytic Community annual awards recognize analysts and data professionals whose work in data science, operational analysis, modeling, assessments, and decision-support has significantly advanced the Department's analytic mission. This year's honorees demonstrated exceptional technical expertise, analytic rigor, and mission-focused impact across the Air Force and Space Force. Their contributions strengthened data-driven decision-making, improved operational insight, and reinforced the vital role of analytics in supporting strategic and operational priorities.

See page 24 for a full list of winners.

Scan QR for updated agenda

1315 – 1330 Networking Break & Exhibit Hall
CONSTELLATION BALLROOMS

1330 – 1515 Briefing Breakouts

Simulation
1330 – 1400
BALANCED ROCK

Simulated Digital Shrapnel: Using Mission-Level M&S to Quantify Cyber Survivability
Dr. William Bryant
DAF/CROWS

Cross Cutting Technologies
1330 – 1400
CATHEDRAL ROCK

Designing the Future: A Hands-On Undergraduate Course in Model-Based Systems Engineering
James Walliser
Sierra Nevada Corporation

Cross Cutting Technologies
1330 – 1400
SANTA FE

Operationalizing Digital Engineering: Leveraging Machine Learning to Transform the DAF MS&A Ecosystem for Decision Superiority
Dr. Nathaniel Crews
Caltech CTME

Decision Support
1330 – 1400
HOMESTEAD

From Stochastic to Strategic: Fusing Human-in-the-Loop Wargaming with AI-Driven M&S
Daniel Hill
HAF/A5/7

Decision Support
1330 – 1400
SKYLINE

Proving Warfighter Value: Digital Evidence for Enterprise Investment
Christian Randolph
Booz Allen Hamilton
CUI*

Decision Support
1330 – 1400
GENERATIONS BALLROOM

Object Tracker Confidence Measures to Improve Human Machine Teaming
Terry Stanard
Air Force Research Laboratory

Decision Support
1415 – 1515
BALANCED ROCK

The Operations Analysis Mentoring Workshop
Col Gregory White
SAF/SA

Policy, Standards, Data
1415 – 1515
CATHEDRAL ROCK

CMSP 3.0 – Certified Modeling and Simulation Professional Workshop
Dr. George Stone
Qinetiq

Policy, Standards, Data
1415 – 1445
SANTA FE

UAF-Driven Architecture for USSF Model Federation and Mission Alignment
Maj Caleb Werner
U.S. Space Force

Cross Cutting Technologies
1415 – 1445
HOMESTEAD

Expert Power Dynamics in Human-Robot Team Decision-Making
Campbell Dorsey
United States Air Force Academy

Cross Cutting Technologies
1415 – 1445
SKYLINE

Project Launchpad: AI-Powered Development for Mission-Critical Applications
James Ryan
Department of the Air Force Chief Data and AI Office
CUI*

Policy, Standards, Data
1415 – 1445
GENERATIONS BALLROOM

DAF Metadata Standards: A Tiered Framework and Implementation Roadmap
Gregory Nolder
Department of the Air Force Chief Data and AI Office

Policy, Standards, Data
1445 – 1515
SANTA FE

Model Validation Levels: A Framework for Creating Models You Can Trust
Adam Butler
Northrop Grumman

Cross Cutting Technologies
1445 – 1515
HOMESTEAD

Bio-Inspired Communication for Human-Quadruped Robot Teaming
Jack Culp
United States Air Force Academy

Training
1445 – 1515
SKYLINE

Air Force Accession Center Match Assist: When Flexible is Better than Optimal
George Valaika
HQ Air Force Accession Center/A9 (AFAC)
CUI*

Policy, Standards, Data
1445 – 1515
GENERATIONS BALLROOM

High Performance Computing Enabled Modeling Simulation and Analysis Institute Overview
Dr. David McDaniel
DoD HPCMP

1515 – 1530 Networking Break & Exhibit Hall
CONSTELLATION BALLROOMS

1530 – 1600 Briefing Breakouts

Decision Support
1530 – 1600
BALANCED ROCK

USAFA Operations Research – Students Providing Decision Support to Sponsors/Customers
Lt Col Taylor Leonard
United States Air Force Academy

Cross Cutting Technologies
1530 – 1600
CATHEDRAL ROCK

AI Wargaming for Information Environments: Modeling Influence, Power, and Decisions
Richard Niemeyer
United States Air Force Academy

Emerging Technologies
1530 – 1600
SANTA FE

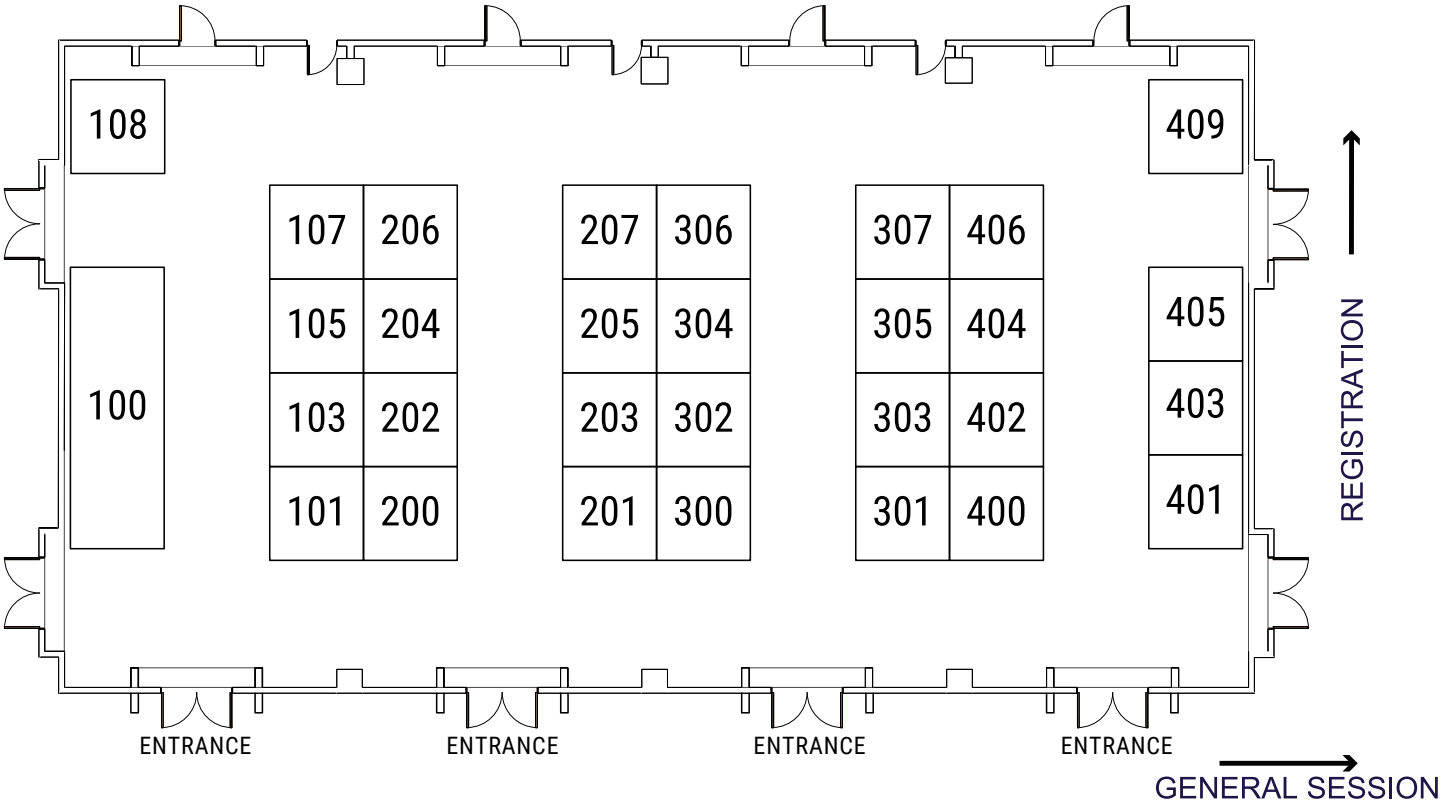
Active Slice Discovery for Realistic Testing of Computer Vision Models
Benjamin Thengvall
OptTek Systems, Inc.

Simulation
1530 – 1600
HOMESTEAD

~~**A New Domain for Land Warfare: Advancing AFSIM with Unprecedented Scale and Environmental Fidelity**~~
~~Steven Biebel~~
~~OUSD(R&E) Mission Integration~~
CANCELED

*CUI – Approved ID required to attend

Exhibitors by Company



Scan QR for updated agenda

Exhibitor & Support Information

Aptima, Inc. 200

Aptima is a technological leader in the national security industry, engineering innovative solutions that transform how individuals and teams train, develop and perform in mission-critical environments. By integrating advanced technology with core insights into human behavior and cognition, Aptima's scalable solutions are shaping the future of national security.

Aptima brings together experts from a wide variety of disciplines, working in unison to foster innovation, stay ahead of ever-evolving customer needs, and tackle some of the most complex national security challenges.

Through hands-on innovation and a culture of fearless experimentation, Aptima designs, tests, and scales proven solutions across the defense landscape.

By fusing the power and precision of advanced technology with human's endless potential, Aptima is helping people learn faster, think more critically and perform in ways we'd never thought possible.

aptima.com

Astrion

SUPPORTER

Astrion supports defense, homeland security, intelligence, and space missions with integrated technology solutions and services. With our "always on" approach, relentless pursuit of bold ideas, and unmatched execution, Astrion works side by side with our customers in the toughest scenarios to deliver results with real impact.

astrion.us

Augmentr, Inc. 103

Augmntr provides geospatial solutions for advanced data collection systems and specializes in displaying these highly accurate digital data sets in augmented reality and/or virtual reality. We hold multiple patents covering georegistered augmented reality technologies and continue to invest in developing industry leading solutions in this area. With a hardware-agnostic philosophy and a standards-based approach, all informed by decades of rigorous systems engineering experience, Augmntr is able to provide unique solutions for our customers that need high precision geolocation, tightly synchronized data feeds, complete and accurate metadata, and robust, fieldable designs that are well positioned for overall mission success.

augmntr.com

Barco

SUPPORTER

Barco, headquartered in Kortrijk (Belgium), is a global company leading in visualization and collaboration technology. With over 90 years of experience, Barco drives advancements across healthcare, enterprise and entertainment markets.

The Barco Simulation team holds a long-standing legacy in the industry excelling in developing advanced visualization solutions for training markets. Barco's offering has robustness, image quality and speed at its core, ensuring consistent performances in various training environments. From flight training for civil and military aircrafts, to vehicle training and ship-bridge simulation, Barco's broad portfolio always delivers a vision to trust. With projectors like the F400, F70 and F40 to cater diverse simulation needs and global service capabilities, Barco is a trusted simulation partner known for their reliability and excellence.

barco.com/en/solutions/simulation-training

Battlespace Simulations, Inc. 401

SUPPORTER

DON'T SETTLE FOR ONLY PART OF THE BATTLESPACE

BSI specializes in Multidomain Combat Simulation & Analysis in Near Peer Threat Environments. We simulate the entire battlespace, seen and unseen, so users are better prepared for combat. BSI has decades of experience providing industry-leading solutions in Modelling Simulation.

Militaries and companies all over the world use BSI products for multiple use cases including: Joint Fires training; wargaming; mission planning, analysis and rehearsal; electronic warfare training; and operational research & analysis.

Built on high-fidelity physics-based engines and visualization systems, simulating multidomain and multi-spectrum combat; customers describe us as their "Swiss army knife" of combat simulation. With user authorable content, using open standards for GIS data and configured to use a multitude of military standards, users can customize our products and content to a multitude of use cases without the need for additional tools.

dafmss.org/exhibitors-sponsors/battlespace-simulations-inc

C2 Technologies, Inc. 207

C² Technologies delivers next-gen immersive training, AI-powered adaptive learning, MODSIM, cybersecurity, and digital transformation for defense, federal, and private sector clients. Our Adapt2Learn platform boosts performance and slashes development time and cost. With 500+ experts across 37 global locations, we support 150+ clients through major contracts and emerging tech. From combat readiness to enterprise transformation, C² empowers America's heroes to lead, adapt, and win. Headquartered in McLean, VA.

c2ti.com

CAE

SUPPORTER

At CAE, we exist to make the world safer. We deliver cutting-edge training, simulation, and critical operations solutions to prepare aviation professionals and defense forces for the moments that matter. Every day, we empower pilots, cabin crew, maintenance technicians, airlines, business aviation operators, and defense and security personnel to perform at their best and when the stakes are the highest. Around the globe, we're everywhere customers need us to be with approximately 13,000 employees at around 240 sites and training locations in over 40 countries. For nearly 80 years, CAE has been at the forefront of innovation, consistently seeking to set the standard by delivering excellence in high-fidelity flight simulators and training solutions, while embedding sustainability at the heart of

everything we do. By harnessing technology and enhancing human performance, we strive to be the trusted partner in advancing safety and mission readiness—today and tomorrow.
cae.com/defense-security

Cordoniq, Inc. 203

Cordoniq delivers a secure, mission-ready video collaboration platform that integrates with existing simulation and training solutions for defense, government and enterprise environments. Chosen by the U.S. Department of Defense (DoD), U.S. Special Operations Command (SOCOM) and the National Guard, our dual-use technology enables real-time, low-latency video, voice, data and AI-powered workflows across distributed teams, command centers and training environments.

Built with security and control at its core, Cordoniq supports on-premises, private cloud and hybrid deployments—ensuring sensitive communications and operational data remain protected.

Integrate live video feeds, AI analytics, digital twins and scenario-based simulations into a single interactive environment to enhance decision-making, readiness and performance.

Visit us to see how real-time video collaboration and simulation can modernize training, improve situational awareness and accelerate mission outcomes.
cordoniq.com

Department of Air Force Modeling, Simulation, and Analysis 306

The Department of the Air Force Chief Modeling and Simulation Office (SAF/SAM partnered with HAFA5/7), mission and vision is to synchronize Air Force and Space Force investments in M&S from an enterprise perspective, providing affordable tools and infrastructure to enable Reusability, Commonality, and Interoperability across the DAF and DoW. Two of the enterprise tools being developed are GEMSTONE and WarMatrix.

DAF GEMSTONE: Achieve decision superiority by creating an integrated, collaborative storefront providing the DAF MS&A community access to authoritative data, artifacts, extensible models, simulation frameworks, CI/CD and repository capabilities enabling rapid decision superiority and operational readiness.

WarMatrix: Transformational software development approach to achieve joint decision support and human-machine teaming for DAF operations and planners. WarMatrix is an operation-level planner focused, purpose-built "digital sandbox" designed to deliver decision-quality analysis that helps senior leaders understand the tradeoffs between investment, risk, and effectiveness, ensuring force decisions are grounded in rigorous analysis.
modsim.af.mil

ESTECO NA Inc. 201

ESTECO is a pioneer in numerical optimization solutions, specializing in the research and development of engineering software for Multidisciplinary Design Optimization (MDO) and Simulation Process Data Mgmt (SPDM). ESTECO's products, modeFRONTIER and VOLTA, help companies increase efficiency in design simulation and accelerate product innovation.
esteco.com

FlightSafety International Inc.

SUPPORTER

FlightSafety International is the world's preeminent professional aviation training company and supplier of flight simulators, visual systems, and displays to educational, commercial, government, and military organizations. In 2026, the company celebrates its 75th anniversary, marking more than seven decades of advancing aviation safety through rigorous, real-world training programs delivered to pilots, technicians, and other professionals from 170+ countries. FSI currently operates the world's largest fleet of advanced full-flight simulators at learning centers and training locations on six continents.
flightsafety.com

HTX Labs 301

HTX Labs delivers secure, scalable warfighter readiness solutions exclusively for the Department of War. EMPACT is an AI-enabled platform, IL4-authorized enterprise environment that unifies immersive training, real-time knowledge access, and secure content management in a single pane of glass. With capabilities like the Digital Asset Repository and AI-powered EMPACT Assistants, HTX Labs modernizes training and strengthens mission readiness for the next generation of defense forces.
htxlabs.com

InfiniteTactics 403

InfiniteTactics presents the Gateway Platform - a proven, production-grade digital engineering platform that directly accelerates mission autonomy, HPC, AI, and SAP strategic pillars across the DOW. It is a sandbox for prototyping, a technology transfer and transition mechanism, and a path to scale horizontally, vertically, and across security fabrics and caveats. Gateway is trusted by DAF CMSO, HPCMP, DARPA, AFTC, AFRL, ERDC, NRL, and others to provide simple, secure, and scalable workflows that:

- Remove procurement friction for active mission partners through our third-party on-platform marketplace
- Enable DevSecOps with cost-controlled Kubernetes operational GPU-powered infrastructure in multi-tenant above-secret level systems from CUI to TS/SCI
- Integrate AWS cloud-native agentic AI technologies within secure, isolated enclaves
- Execute hybrid modeling, simulation, and analytics workflows across on-premise supercomputers or virtual, on-demand systems in the cloud

infinitetactics.com

Infinity Labs 300

SUPPORTER

Infinity Labs is a non-traditional defense company driving the future of national security and advanced technologies. With a relentless focus on our customers and their needs, iLabs combines deep technical expertise with agile, forward-thinking strategies to deliver unparalleled capabilities in modeling, simulation, software development, cyber, and mission-critical R&D solutions. Backed by a team of elite engineers and scientists, the company accelerates innovation cycles and transforms bold ideas into operational realities.

Scan QR for updated agenda

Rooted in a culture of excellence, collaboration, and integrity, Infinity is not just solving tomorrow's challenges today—it's engineering the future of defense. Ditch the ordinary. Embrace the Infinite.
i-labs.tech

Inhance Digital 204

Inhance is an experiential technology partner supporting the advancement of modeling, simulation, and analytics across defense and aerospace. We work with government and industry teams to develop interactive, real-time 3D applications that enhance training, analysis, and mission understanding.

Our focus is translating complex systems and data into intuitive, immersive environments that support digital engineering, multi-domain operations, and next-generation training. From high-fidelity simulation interfaces to cloud-streamed digital experiences, we help teams move from static tools to interactive, scalable solutions.

Inhance is proud to support the MS&A community by enabling clearer communication, faster insight, and more effective use of emerging technologies across air, space, and cyber domains.
inhance.com

iPerformX 100

iPerformX is a unified training and readiness platform that converts training into measurable performance.

By combining adaptive learning, intelligent scheduling, simulation integration, and real-time analytics, iPerformX enables personalized instruction at scale, reduces instructor workload, and provides leaders with a continuous view of proficiency and readiness.
iperformx.com/#home-vision

KBR 307

We deliver science, technology and engineering solutions to governments and companies around the world. KBR employs approximately 37,000 people worldwide with customers in more than 80 countries and operations in over 29 countries. KBR is proud to work with its customers across the globe to provide technology, value-added services, and long-term operations and maintenance services to ensure consistent delivery with predictable results. At KBR, We Deliver.
kbr.com

Military Operations Research Society 302

The Military Operations Research Society (MORS) is a non-profit member association that brings together analysts, researchers, and decision-support professionals dedicated to strengthening national and homeland security through rigorous, mission-focused analysis. MORS serves as a professional nexus for operations research and analytics across the military, government, industry, and academia. Our year-round offerings support analysts at every career stage and include: the MORS Symposium; the Education and Professional Development Colloquium; online certificates and courses; both classified and unclassified meetings, workshops, and forums; a curated catalog of publications, reports, and historically significant analytical manuals; fifteen active Communities of Practice; a Mentorship Program; and a Career Center.
mors.org/home

Nullspace, Inc. 101

SUPPORTER

Nullspace delivers electromagnetic simulation software that is over 25x faster than legacy tools, while maintaining full-fidelity accuracy. Validated over 12+ years on mission-critical defense hardware before commercialization, our solvers enable engineers to simulate electrically large RF problems (full aircraft antenna systems, massive phased arrays, satellite constellations) that exceed the capabilities of legacy solutions.

Built from the ground up for modern computing architecture, Nullspace gives aerospace, defense, communications, and quantum computing engineers the power to design complex RF systems faster, at lower risk, and with fewer prototype iterations.
nullspaceinc.com

Purdue University 105

For over 150 years, generations of Boilermakers have left their mark in small steps and giant leaps. Today, we continue in those footsteps as we bring our best and learn to build a better world, together.
purdue.edu

Redshred 405

Redshred is a defense technology company that transforms unstructured raw data—spanning 2D/3D formats, text, engineering schematics, technical orders, & complex documentation—into structured, actionable knowledge. This powers modeling & simulation, XR, digital twins, mobile platforms, & other immersive applications. With SBIR/STTR awards from the Navy, Army, Air Force, DLA, & DTRA, Redshred consistently tackles one of defense's most persistent challenges: critical information locked inside unstructured documents that remains inaccessible to AI-driven systems, maintainers, & decision-makers. Redshred's foundational document processing platform serves as the engine behind a growing portfolio of purpose-built tools. Leveraging LLMs, machine learning, NLP & computer vision, these tools extract, structure, & deliver information at the speed modern defense demands—transforming raw content into formats ready for MBSE, digital twins, & XR environments.
redshred.com

Sigmatech, Inc. 108

Founded in 1986, Sigmatech delivers training, education, and technical solutions to defense and civilian customers. Our core expertise covers adult education, curriculum design, XR training, strategy, systems engineering, program management, and software development. We lead the National Security Space Institute, managing the NRO Enterprise Training contract, and creating officer courses for the 319th Combat Training Squadron.

Our Software Group modernizes legacy platforms and builds cloud native apps on DoD DevSecOps Kubernetes. Our Training & Education teams produce multimedia eLearning and immersive XR scenarios, exemplified at the National Security Space Institute. Our Algorithms Group applies AI and network science to products for cost-schedule analytics. Our engineering specialists deliver electrical/mechanical design and simulation.

With 550+ cleared SMEs—including 200 at TS/SCI—Sigmatech offers secure instruction and solutions across space and Army domains.
sigmatech.com

Systems Planning & Analysis 303

SPA is a premier, independent global provider of data-driven analytical insights advancing national security for Defense, Intelligence, and Homeland Security clients. SPA delivers innovative strategies and approaches for solving national security challenges with mission-specific tools and deep subject matter expertise across all domains. From policy support to program management, cloud and cybersecurity, systems engineering and AI/ML, SPA delivers unbiased, objective analysis, tailored exclusively to our clients' needs. Awards include Washington Post Top Workplace consecutively since 2014, and Department of Labor HIRE Vets Gold Medal for the past seven consecutive years. SPA is a portfolio company of Arlington Capital Partners.

spa.com

Ti DEFENSE 409

Ti DEFENSE, a wholly owned subsidiary of Ti Training LE, LLC, is a trusted provider of highly interactive and immersive training solutions for military units worldwide. With more than 20 years of commitment to the Simulation Training industry, Ti DEFENSE has identified critical gaps in currently fielded systems and directly targeted those gaps in the development of our latest capability: the Military Virtual Trainer (MVT). MVT is built on its three core training pillars, Shooter (Marksmanship/weapon drills), Judgment (Use of Force decision making), and Shockwave (Joint Fires).

MVT addresses training gaps through innovating development to include, the patent pending, individual grouping and weapon zeroing tool, Smart Firing Point (SFP).

Ti DEFENSE is dedicated to delivering integrated hardware, software, and content solutions that evolve with the needs of today's—and tomorrow's—Warfighters.

tidefense.com

Torch Technologies, Inc. (Torch) 400

Torch Technologies, Inc., a 100% employee-owned defense contractor headquartered in Huntsville, AL, is dedicated to supporting the DoW and the Warfighter. As a premier provider of high-end engineering and technical services, we specialize in research, development, and applied science. Torch has deep expertise in modeling and simulation, systems engineering, and test and evaluation. Torch provides critical technical solutions for complex challenges in missile defense, aviation, and emerging technologies like artificial intelligence and cybersecurity. By bridging the gap between innovative prototyping and rigorous performance analysis, Torch ensures national security systems remain cutting-edge. Torch's culture is built on a unique ownership model where every employee is personally invested in the mission's success. This drives accountability and cost-effective delivery. Torch is "Lighting the Pathway of Freedom" by delivering technological advantages to protect our nation.

torchtechnologies.com

Traain 206

Traain is an enterprise learning platform built to replace outdated LMS systems and transform how teams actually learn, perform, and grow. Instead of relying on passive content, Traain combines adaptive learning, AI-driven role play, and real-time feedback to build true skill—not just track completion. With Navigator AI™, employees can practice real-world scenarios at scale, receiving consistent coaching tailored to their role, experience level, and performance. Traain Engine™ converts existing SOPs, documents, and training materials into structured, engaging learning pathways, while Traain Cadence™ reinforces knowledge through repetition, application, and feedback.

Traain gives leaders visibility into readiness, not just activity—helping organizations reduce training drift, accelerate onboarding, and improve performance across teams. From enterprise organizations to growing SMBs, Traain turns learning into a measurable, repeatable driver of business outcomes.

traain.com

Training and Readiness Accelerator II (TReX II) Consortium 202

TReX II provides leading-edge modeling, simulation, and training (MS&T) solutions to increase warfighter readiness and enhance national security.

trexii.org

UpSkillAI 406

UpSkillAI creates AI-enabled extended reality education, training, and certification for mission-critical, hands-on training in healthcare, EMS, higher education, pharma, and defense. Our rapid, custom-build approach allows clients to address their specific, real-world challenges. UpSkillAI has published research proving accelerated learning and extended retention when every second counts.

upskillai.com

Worldscape Federal 402

Worldscape is an AI-native technology company building a data fabric platform that unifies massive, distributed datasets into a secure, real-time operating environment. The company specializes in geospatial intelligence and advanced analytics, enabling complex agentic AI workflows across the Kill Chain and the Supply Chain.

Its platform integrates disparate data sources to power dynamic modeling, simulation, and autonomous decision-making, allowing users to orchestrate multi-step workflows that adapt in real time. By combining AI agents with continuously updated data, Worldscape delivers a persistent operational picture across domains.

Designed for defense, government, and enterprise applications, Worldscape helps organizations achieve decision advantage—accelerating the speed, accuracy, and confidence of critical decisions in complex, high-stakes environments.

worldscape.ai

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Mrs. Nikole Sanchez

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Who We Are

VADM Sean S. Buck, USN (Ret.)

President, National Training and Simulation Association

VICE ADMIRAL SEAN S. BUCK, USN (RET.) is the President of the National Training and Simulation Association (NTSA). VADM Buck is a seasoned leader with over 40 years of experience in commissioned military service and higher education. He served as the 63rd Superintendent of the U.S. Naval Academy, where he led the institution through significant challenges, including the COVID-19 pandemic, ensuring continuous operations in support of its critical mission of developing the leaders of tomorrow for our nation. Throughout his career, he commanded at many levels, including as Commander of U.S. Fourth Fleet & Naval Forces Southern Command, where he was responsible for key security and humanitarian operations across the Americas. In his current role, VADM Buck leads NTSA in advancing the training, modeling, and simulation industry, representing and advocating for its membership that drives innovation in defense and technology sectors. His leadership extends to serving on advisory boards for Academy Securities, Synergist Technology, and First Command Financial Services, and contributing to the development of the U.S. Naval Academy's athletic programs. VADM Buck holds a Master's in Security Policy Studies from The George Washington University and has completed executive education at Harvard and MIT. His commitment to excellence continues to shape the future of training and simulation.

Debbie Langelier, CEM

Senior Vice President, National Training and Simulation Association

DEBBIE LANGELIER, CEM serves as the Senior Vice President of the National Training and Simulation Association (NTSA), a nonprofit affiliate of the National Defense Industrial Association (NDIA), headquartered in Arlington, VA. In this executive leadership role, she is responsible for the strategic direction and operational oversight of NTSA's portfolio, encompassing membership engagement, marketing and communications, certification programs, and a suite of premier events—most notably, the Interservice/Industry Training, Simulation, and Education Conference (I/ITSEC), the world's largest event dedicated to training and simulation.

Since joining NTSA in 2004, Langelier has played a pivotal role in shaping the organization's growth and reputation. Initially serving as Director of Exhibits & Sponsorships, she rapidly increased sponsorship and exhibit revenue by over 30%, setting the foundation for NTSA's year-round success across multiple industry-leading events. Her promotion to Assistant Vice President and later Senior Vice President reflects her visionary leadership, deep industry knowledge, and steadfast commitment to excellence. A champion for security and operational excellence, Langelier spearheaded the development of NTSA's high-level security protocols, ensuring both NTSA and I/ITSEC align with evolving federal requirements and best practices in cybersecurity, information handling, and international engagement.

NTSA National Training and Simulation Association

The National Training and Simulation Association (NTSA) is America's premier organization representing the interests of the modeling and simulation community worldwide. As such, it serves as a constant point of contact for government, academia, industry, research organizations and the military to exchange information, share knowledge, align business interests and in general stimulate growth and overall advancement of the industry. NTSA pursues these goals through a series of conference, meetings and exhibitions throughout the year. NTSA produces The Interservice/Industry Training, Simulation and Education Conference (I/ITSEC), which is the world's largest conference and exhibition dedicated to modeling and simulation. While NTSA primarily serves the North American community of practice, many of its members and participants are non-US. NTSA is a key member of the International Training and Simulation Alliance (ITSA), a worldwide group of simulation associations that promotes knowledge and information about training and simulation worldwide.

NTSA NATIONAL TRAINING AND SIMULATION ASSOCIATION
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