Schedule at a Glance

TUESDAY, 18 AUGUST

Registration & Exhibits Open
Lower Foyer
0700 – 1830

Continental Breakfast
Lower Foyer
0730 – 0830

Welcome & Opening Remarks
Plaza Ballroom
0830 – 0845

Opening Keynote
Plaza Ballroom
0845 – 0915

Networking Break & Dedicated Exhibit Time
Lower Foyer
0915 – 0930

Special Event
Plaza Ballroom
0930 – 1030

Presentation Session I
Plaza Ballroom I, II, III
1030 – 1145

Lunch & Dedicated Exhibit Time
Terrace
1145 – 1245

Presentation Session II
Plaza Ballroom I, II, III
1245 – 1400

Networking Break & Dedicated Exhibit Time
Lower Foyer
1400 – 1415

Special Event
Plaza Ballroom
1415 – 1515

Presentation Session III
Plaza Ballroom I, II, III
1515 – 1630

Special Event
Plaza Ballroom
1630 – 1700

Opening Reception
Lower Foyer
1700 – 1830

MODSIM After Dark
Terrace
2000 – 2200

WEDNESDAY, 19 AUGUST

Registration & Exhibits Open
Lower Foyer
0700 – 1420

Continental Breakfast
Lower Foyer
0730 – 0830

Day Two Welcome & Opening Remarks
Plaza Ballroom
0830 – 0840

Industry Keynote Address
Plaza Ballroom
0840 – 0900

Special Event
Plaza Ballroom
0900 – 1000

Networking Break & Dedicated Exhibit Time
Lower Foyer
1000 – 1015

Government Keynote
Plaza Ballroom
1015 – 1035

Presentation Session IV
Plaza Ballroom I, II, III
1035 – 1150

Lunch & Dedicated Exhibit Time
Terrace
1150 – 1250

Presentation Session V
Plaza Ballroom I, II, III
1250 – 1405

Networking Break & Dedicated Exhibit Time
Lower Foyer
1405 – 1420

Special Event
Plaza Ballroom
1420 – 1520

Closing Remarks & Adjourn
Plaza Ballroom
1520 – 1525

Keynote Speakers

Opening Keynote

TUESDAY, 18 AUGUST | 0845 – 0915 | PLAZA BALLROOM

Dr. Eric Davis

Program Manager, DARPA Strategic Technology Office

Eric Davis, Ph.D., joined DARPA in February 2024 as a program manager in the Strategic Technology Office. His research interests include artificial intelligence, cognitive science, human-machine teaming, and data science.

Prior to DARPA, Davis was the principal scientist of artificial intelligence, machine learning, and human-machine teaming at Galois, where he led programs that focus on the creation of cognitive architectures to allow next-generation artificially intelligent systems to team with humans in real-world environments.

Prior to Galois, Davis was a professor and director of the Trustworthy Data Engineering Laboratory at Iowa State University and the University of Miami where he was named a Frontiers of Engineering Education faculty member by the National Academy of Engineering.

Industry Keynote

WEDNESDAY, 19 AUGUST | 0840 – 0900 | PLAZA BALLROOM

Rahul C Thakkar

President, BAE Systems OneArc

Rahul is the President of OneArc. He is responsible for the expansion of OneArc's business and product portfolios. He also owns OneArc's overall strategic direction and day-to-day business operations. He is in charge of assessing key domestic and international markets to pursue new opportunities for OneArc's portfolio of products.

An Academy Award® winner and inventor on 60+ patents, Rahul is a seasoned technology leader with experience in cloud computing, defense and intelligence, aerospace, geographic information systems (GIS), and media and entertainment. He most recently served as the director and general manager of Simulation Technologies and Geospatial at AWS, where he led the development of services that made it easier for simulation engineers, scientists, and technicians to scale their simulations on AWS. Prior to AWS, he served as the Director of Infrastructure Transformation at Boeing, where he led various enterprise infrastructure transformation efforts and built cloud-based capabilities for their unmanned systems. Rahul also had a long history of building foundational technologies for visual effects in feature films such as Antz and Shrek (winner of the 2002 Academy Award® for Best Animated Feature Film). In 2016, he received an Academy Award® for Technical Achievement for "the groundbreaking design of the DreamWorks Media Review System."

Rahul has a Masters in Computer Science from Utah State, and a Bachelors in Computer Engineering from University of Mumbai.

Government Keynote

WEDNESDAY, 19 AUGUST | 1015 – 1030 | PLAZA BALLROOM

Elmer Roman, SES

Deputy Assistant Secretary of War for Acquisition Integration and Interoperability , US Department of War

Mr. Elmer L. Roman currently serves as the Deputy Assistant Secretary of War for Acquisition Integration and Interoperability. In this position, he leads the Department's efforts to accelerate the delivery of integrated joint capabilities. He oversees Department-wide Capability Portfolio Management, executing Integrated Acquisition Portfolio Reviews to align acquisition strategies with critical operational gaps. Additionally, he drives new technology integration, enforces Modular Open Systems Architecture standards, and partners with the Mission Engineering and Integration Activity to bridge the "Valley of Death," ensuring the rapid fielding of interoperable, system-of-systems solutions for the Joint Force.

Previously, Mr. Roman served as the Principal Deputy Assistant Secretary of the Navy for Energy, Installations and Environment (EI&E). From July to December 2025, he also performed the duties of Assistant Secretary of the Navy for EI&E. In this role, he advised the Secretary of the Navy on policies for the Department of the Navy's energy, installations, and environmental programs while ensuring compliance with federal and Department of War policies. During this tenure, he oversaw Department-wide policies for Navy and Marine Corps infrastructure, energy resilience, contested logistics, environmental stewardship, and safety programs.

Additionally, he held key leadership roles within the Office of the

Keynote Speakers

Under Secretary of Defense for Research and Engineering. As Deputy Assistant Secretary of Defense for Mission Integration, he co-led the development of the Department's Capability Portfolio Management framework and established the Mission Engineering discipline now used to reform weapons acquisition across the Joint Force. He previously served as Director of the Joint Capabilities Demonstration Program, where he fielded operational capabilities to meet urgent theater requirements.

From 2019 to 2020, he served the Commonwealth of Puerto Rico in several confirmed senior executive roles, including Acting Governor, Lieutenant Governor, Secretary of State, and Secretary of Public Safety. His earlier civil service career included technical and leadership assignments at the Joint Warfare Analysis Center, the Naval Surface Warfare Center, and the Office of the Chief of Naval Operations (N3/N5). This culminated in a diplomatic post as Director for the Office of Naval Research Global at the U.S. Embassy in Santiago, Chile.

Before his civil service career, Mr. Roman served in the U.S. Marine Corps from 1991 to 1997 in reconnaissance and landing support. He later transitioned to the Navy Reserve as an Engineering Duty Officer, leading heavy-lift salvage support missions worldwide, including the recovery operations for the destroyers USS John S. McCain (DDG 56) and USS Fitzgerald (DDG 62) after their respective collisions in 2017. Additionally, he served in Operation Iraqi Freedom.

Currently, he serves as a Captain in the U.S. Navy Reserve.

His awards include the Department of War Meritorious Civilian Service Medal, U.S. Navy Meritorious Civilian Service Medals (two awards), U.S. Navy Meritorious Service Medals (two awards), and the Chilean Armed Forces Military Star. He is a recipient of the U.S. Navy League's Rear Admiral William S. Parsons Award for Scientific and Technical Progress, the General Carl A. Spaatz Award, the STEM Hispanic Engineer National Achievement Luminary Award, the Department of State Meritorious Honor Award, and a NASA Technical Achievement Commendation.

Mr. Roman holds a B.S. in Mechanical Engineering from the University of Puerto Rico at Mayagüez, and an M.S. in Systems Engineering from the Virginia Polytechnic Institute and State University.

NTSA Leadership

VADM Sean S. Buck, USN (Ret.)

President, National Training and Simulation Association

Vice Admiral Sean S. Buck, a native of Indianapolis, Indiana, graduated from the U.S. Naval Academy in 1983 and retired from naval service after 40+ years of commissioned service. His active-duty career culminated as the 63rd Superintendent of the U.S. Naval Academy, our nation's premier leadership development institution where he gained invaluable and in-depth knowledge and experience running an institution of higher education. Having commanded six times in the military, he has tremendous applied-leadership experience at the highest levels of military and government as well as specialization in strategy and policy development and international affairs. On June 3rd, 2024, VADM Buck embarked on his current position as the President of the National Training and Simulation Association (NTSA), a non-profit affiliate of the National Defense Industry Association (NDIA). In his role, he leads a team of 15 full time staff and over 300 volunteers that represent and advocate for its membership of technology companies involved with cutting edge innovation and research in the modeling and simulation space for training systems. VADM Buck's operational naval service was as a Naval Flight Officer in the Maritime Patrol and Reconnaissance naval aviation community accumulating over 4000 flight hours and command- level leadership at the Squadron, Air Wing, and three higher-level organizations culminating with command of the US FOURTH Fleet. Ashore, he had over a decade of service in the Pentagon on multiple tours of duty with the Navy Staff as well as the Joint Chiefs of Staff. During these tours he specialized in strategy and policy development, international affairs, as well as personnel management. Additionally, he leveraged unique opportunities in his career by earning designation as a member of the Navy's Space Cadre while serving at the National Reconnaissance Office and gained tremendous experience within collegiate sports by serving both as a Division I athlete (Tennis) as well as a member of the NCAA's Division I Board of Directors and a member of the Executive Committee of the American Athletic Conference. VADM Buck's academic credentials include: a Master of Arts in Security Policy Studies from The George Washington University; completed studies at the College of Naval Command and Staff, U.S. Naval War College; the Armed Forces Staff College; a year-long fellowship with the Massachusetts Institute of Technology's Seminar XXI Foreign Politics, International Relations, and the National Interest program; Executive Certificate Programs at both the Harvard Kennedy School and Harvard Graduate School of Education; and a special assignment as a Senior Fellow on the Chief of Naval Operations Strategic Studies Group-an innovation think tank for the Navy, tasked with solving the service's most vexing problem sets. Additionally, he serves on the Advisory Board of Academy Securities and its Geopolitical Intelligence Group, the Advisory Board for Synergist Technology, the Military Advisory Board for First Command Financial Services, as a Trustee to the US Naval Academy's Athletic and Scholarship Program, and as a member of the Leadership Committee for the US National Naval Museum Development Foundation. To date, he has also been engaged as a keynote speaker for the U.S Department of Agriculture and Babson College's E-Tower Young Entrepreneurs Conference.

Debbie Langelier, CEM

Senior Vice President, National Training and Simulation Association

Debbie Langelier, CEM is the Senior Vice President of the National Training and Simulation Association (NTSA), a nonprofit organization based in Arlington, VA. In her role, she oversees the management of all NTSA staff and operations, including membership, marketing, certification, and events. Langelier has been instrumental in initiating and maintaining a high-level security program for both NTSA and I/ITSEC, the organization's flagship event. Her passion for industry, combined with an unwavering focus on client satisfaction, enables her to lead with innovative solutions and unmatched expertise across every project she manages.

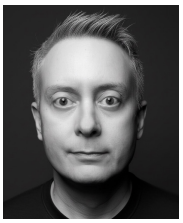
Joining NTSA in 2004, Langelier initially served as the Director of Exhibits & Sponsorships before advancing to the role of Assistant Vice President. In her initial role, she was credited with driving a growth rate of more than 30 percent, managing exhibits, sponsorships, and marketing for six key events, including the Interservice/Industry Training, Simulation, and Education Conference (I/ITSEC), the largest training and simulation event in the world. Her strategic approach to marketing has established NTSA with a strong year-round digital presence, positioning the organization for continued success and growth in the future.

Langelier's event career began in 1989 as a General Service Contractor, where she quickly advanced through the ranks, gaining invaluable hands-on experience and mastering every facet of event organization. Specializing in comprehensive solutions for conferences, trade shows, corporate events, and private functions, she earned a reputation for excellence and a keen attention to detail. Her work laid the foundation for her expertise in the events industry, where she has become a trusted leader and advisor.

As a Certified Exhibit Manager with over 30 years of experience in the industry, Langelier's background in customer service, creative services, and association sales management gives her a deep understanding of the nonprofit sector and the trade show industry. She believes strongly in the power of connecting people and values the role of events in fostering important relationships and collaborations.

As Senior Vice President at NTSA, Langelier continues to advocate for the use of advanced simulation technologies—such as artificial intelligence, virtual reality, and serious gaming—to support training, education, and analysis within national security markets. NTSA, an affiliate of the National Defense Industrial Association (NDIA), supports these efforts, representing a membership of over 80,000 individuals and nearly 1,600 corporate members, all while ensuring the defense industrial base remains at the forefront of innovation and technological advancement.

Conference Leadership



Vance Souders | Conference Chair

Founder, Plas.md; Senior Manager, Digital Innovation, Thermo Fisher Scientific

Vance Souders has over 23 years of software engineering, design, and leadership experience focused on creating cutting-edge immersive experiences. He has played a critical role or spearheaded the development of over 40 innovative projects, driving value across various verticals, including health care, defense, and education. He has led diverse teams composed of on-site and remote engineers, artists, designers, clinicians, and scientists across multiple time zones.

Dr. Benjamin Bell | Deputy Conference Chair

General Manager, Advanced Capabilities Engineering, LLC

Benjamin Bell is General Manager, Advanced Capabilities Engineering, a subsidiary of Potawatomi Ventures Federal Group, a Tribally-owned corporation with 15 subsidiaries and over 40 Joint Ventures. He leads initiatives to help Government and industry partners create and apply emerging techniques in AI to improve training, assessment, and readiness. He has led multiple companies and launched two startups in the defense sector. His research has focused on AI-enabled performance assessment, and automated content and training creation. Dr. Bell holds a Ph.D. in Artificial Intelligence, Masters degrees in Human Factors and Computer Science, and is a graduate of the University of Pennsylvania.

Conner Parsey | Program Chair

Science and Technology Manager, U.S. Army DEVCOM SC STTC

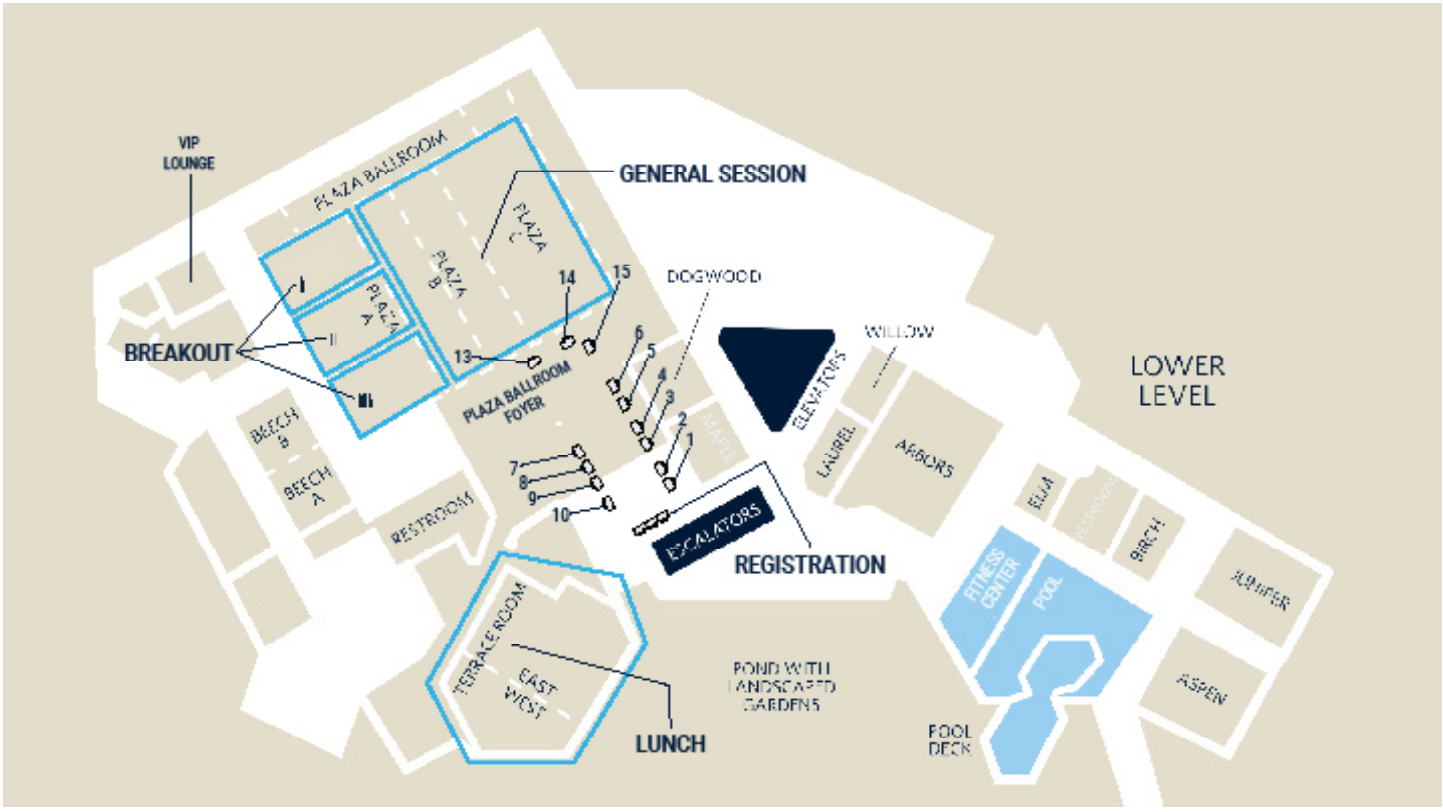
Conner Parsey is a Science and Technology Manager for the U.S. Army DEVCOM at the Simulation and Training Technology Center (STTC) in Orlando. Mr. Parsey manages medical simulation research and development projects aimed to advance simulation technology, increase training effectiveness, improve haptic fidelity, and ultimately impact the warfighter. His research interests include dynamic wounds, human tissue characterization, synthetic tissue surrogates, virtual and augmented reality simulations, 3D printing, bioprinting, and medical haptics. He has a BS in Mechanical Engineering and a MS in Mechanical Engineering from the University of Central Florida.

Frank Karluk | Deputy Program Chair

Senior Principal, Subject Matter Expert, Medical Simulation and Training, DLH Holdings Corporation

Frank serves as DLH's Medical Simulation Account Executive focusing on building the DLH portfolio in the simulation and training practices. Frank has over 30 years' experience in the medical field in multiple areas to include advancing patient care on the battlefield, direct patient care in the hospital setting, instruction, and curriculum development. Twenty-one of these years were in service to the United States Army with various assignments that included combat operations in the Helmand Province of Afghanistan. During this deployment he served as the Non-Commissioned Officer in Charge of an Army MEDEVAC detachment that was tasked to directly support the Special Operations Command during high-risk kinetic operations involving active warfare, including lethal force. He and his unit were the first Army MEDEVAC unit to conduct in-flight blood resuscitation and he is credited with being the first flight paramedic to perform an emergency escharotomy in flight under the remote direction of a trauma surgeon. He maintains active licensure and certifications and is currently a faculty member at The George Washington University. Mr. Karluk has been invited to speak at international conferences and has been a spokesperson within the Medical/Chemical, Biological, Radiological, Nuclear, and high yield Explosives (CBRNE) community before the Joint Chiefs, and other high level governmental leadership post 9/11. He holds a master's degree in emergency and disaster management and graduated with high honors. He continues to share is experiences in the development of future medical simulation and training efforts and has been cited in multiple efforts that have expanded the abilities of a multidisciplinary practitioner community that includes medical providers both inside and outside the military. Most recently he managed the over $190M efforts within the Defense Health Agency, Medical Simulation portfolio, and designed and implemented curriculum within the U.S. Department of State, Special Agent training that was based on recent lessons learned during worldwide deployments into austere locations of conflict.

Tuesday Agenda



TUESDAY, 18 AUGUST

0700 – 1830 REGISTRATION & EXHIBITS OPEN
LOWER FOYER

0730 – 1830 CONTINENTAL BREAKFAST
LOWER FOYER

0830 – 0845 WELCOME & OPENING REMARKS
PLAZA BALLROOM

Vance Souders
2026 Conference Chair, Thermo Fisher

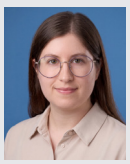
VADM Sean Buck, USN (Ret.)
President, National Training and Simulation Association (NTSA)

SCHOLARSHIP AWARDS PRESENTATION

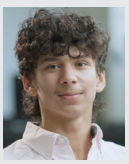
VADM Sean Buck, USN (Ret.)
President, National Training and Simulation Association (NTSA)

RADM JAMES ROBB SCHOLARSHIP AWARD @ MODSIM

The NTSA RADM James Robb scholarships are being offered to prepare individuals for leadership in the Modeling & Simulation, Training, and Education communities. RADM James Robb served as the NTSA President from 2012 – 2023, a keystone achievement during his presidency was the continued expansion of the NTSA Scholarship program. RADM Robb's continued commitment to growing the modeling and simulation technology workforce was evident through his unwavering support of these scholarships. These core programs continue to identify and credential a professional workforce and established educational programs to stimulate interest in M&S careers at all grade levels. RADM Robb believed that by investing in our future workforce, these scholarships will encourage expansion of the I/ITSEC community and promote innovation through direct investment in our community's future leaders.



Vanessa Barth
Ph.D. Information Technology with a Concentration in Mechanical Engineering
George Mason University



Yevin Nikhel Goonatilake
Ph.D. Computer Science
George Mason University

Tuesday Agenda

0845 – 0915 OPENING KEYNOTE
PLAZA BALLROOM

Dr. Eric Davis
Program Manager, DARPA Strategic Technology Office

0915 – 0930 NETWORKING BREAK & DEDICATED EXHIBIT TIME
LOWER FOYER

0930 – 1030 SPECIAL EVENT: The Simulation Century - Digital Twins and AI in Space
PLAZA BALLROOM

This is our 15th annual session to address the growing issue of managing the human/machine interface as we hurtle towards the Singularity and the Metaverse. We will continue our discussion of how to achieve fluency with smarter balance between humans and machines to optimize outcomes. The Simulation Century Panel presentations this year will focus on the challenges and opportunities of implementing AI and simulation in the intelligence community.

MODERATOR

Richard Boyd
CEO, Ultisim

Dr. Jeffrey Arnold
Executive Vice President, Science and Technology, ENTARIAN

Dr. Christa Peters-Lidard
Former Director, Sciences and Exploration, NASA/Goddard Space Flight Center (Retired) and Principal, WtrSense, LLC

1030 – 1145 PRESENTATION SESSION I: AI-Enabled Synthetic Environments and Wargaming
EMERGING CAPABILITIES | PLAZA BALLROOM I

1030 – 1055 **The Joint Fires Rehearsal Center and the Future of SOF Mission Readiness Through AI-Enabled Synthetic Environments**

Presenter: Joshua Ridley
SOCOM JFRC

Hunter Miller
SOCOM JFRC

1055 – 1120 **Altreides: A Multi-Node AI Ecosystem for Traditional Wargaming**

Presenter: Judy Chmelik
MPF Federal, LLC

Will Sokolowski
MPF Federal, LLC

Alicia Sanchez
MPF Federal, LLC

Seth Crofton
MPF Federal, LLC

1120 – 1145 **Synergizing Fidelity and Scale: Integrating VANE and OneSAF via an Unreal Engine Bifrost Client**

Presenter: John Best
Engineering and Computer Simulations, Inc.

1030 – 1145 PRESENTATION SESSION I: Digital Threads, Executable Architectures, and Acquisition
MISSION READINESS | PLAZA BALLROOM II

1030 – 1055 **Executable Architectures: Integrating Ontology, SysML v2, DEVS, and Agentic AI to Realize the Digital Thread**

Presenter: Brad Philipbar
Philipbar Analytics LLC on behalf of Sabel LLC

Robert Epstein
Sabel LLC

Dolores Lowe
Sabel LLC

Dr. Paul Wach
University of Arizona

1055 – 1120 **Advancing Mission Readiness Through Model-Based Acquisition and Digital Thread Integration**

Presenter: Andrew Bonica
MBXperts, LLC

Ricky Hernandez
MBXperts, LLC

1120 – 1145 **Forging the Future of Defense: The Department of War Modeling and Simulation Strategy for Engineering**

Presenter: Keith Henry
Support Contractor OUSW (R&E) DEM&S

Darryl Powell
Support Contractor OUSW (R&E) DEM&S

Tuesday Agenda

1030 – 1145 PRESENTATION SESSION I: Autonomous Systems Testing, Trust, and Human Oversight

AUTONOMY | PLAZA BALLROOM III

1030 – 1055 **Unsupervised Testing of Autonomy Software**

Presenter: Nickolas Vlahopoulos
University of Michigan

Sean Hickey
University of Michigan

1055 – 1120 **Personality Traits and Trust Recovery in Autonomous Recommendation Systems: A Computational Simulation Study**

Presenter: Keian Finlay
University of Central Florida

Ancuta Margondai
University of Central Florida

1120 – 1145 **Balancing Human and System Autonomy: Detecting and Preventing Overdependence in Decision-Making**

Presenter: Gianna Southwick
University of Central Florida

Ancuta Margondai
University of Central Florida

1145 – 1245 LUNCH & DEDICATED EXHIBIT TIME
TERRACE

1245 – 1335 PRESENTATION SESSION II: Trusted and Governed AI for Mission Decisions

EMERGING CAPABILITIES | PLAZA BALLROOM I

1245 – 1310 **A New Epoch of Modeling & Simulation: Constitutional Governance and MVC² for LLM-Spawned Agent-Based Simulation**

Presenter: Dr. Charles Day
Charles F. Day & Associates

1310 – 1335 **Evidence-Based AI Assurance for Emerging Mission Decision Workflows**

Presenter: Jason Kramer
ObjectSecurity LLC

1245 – 1400 PRESENTATION SESSION II: Synthetic Training Environments and Learning Transfer

MISSION READINESS | PLAZA BALLROOM II

1245 – 1310 **Integrating Realism, Readiness, and Repeatability into Synthetic Training Environments**

Presenter: Gary Quasebarth
Mechdyne Corporation

Dr. Alan Liu
Uniformed Services University SimCenter

Jeffrey Brum
Mechdyne Corporation

1310 – 1335 **Improving Training Transfer: Engineering Simulation-Based Experiential Learning into the Military Classroom**

Presenter: Kevin Owens
Applied Research Laboratory: The University of Texas at Austin

Lisa Townsend
U.S. Army DEVCOM SC STTC

1335 – 1400 **Accelerating the Transition of Wearable Display Technologies into Combat Medicine Training Systems**

Presenter: Tiffany Zalewski
SIMETRI, Inc.

Jeffrey Beaubien
Aptima, Inc.

Angela Alban
SIMETRI, Inc.

Nick Walczak
RTX BBN

Juan Cruz
SIMETRI, Inc.

Jack Norfleet
U.S. Army DEVCOM SC STTC

Edward Stadler
SIMETRI, Inc.

Tuesday Agenda

1245 – 1400 PRESENTATION SESSION II: Digital Twins, Reality Capture, and Simulation-Ready Models

AUTONOMY | PLAZA BALLROOM III

1245 – 1310 **From Legacy PDFs to Simulation-Ready 3D Models: Accelerating Obsolescence Recovery and Manufacturing Throughput**

Presenter: Billy Martin
Tribalogix

Theresa Campobasso
Aardwolf Global Solutions

Clinton West
Aardwolf Global Solutions

1310 – 1335 **Enhancing Mission Readiness Through Rapid 3D Reality Capture and Digital Twin Integration**

Presenter: Robert Herman
REscan, Inc.

Benjamin Raney
REscan, Inc.

1335 – 1400 **3DTiles via GDAL**

Presenter: Ronald Moore
Vantor

1400 – 1415 NETWORKING BREAK & DEDICATED EXHIBIT TIME

LOWER FOYER

1415 – 1515 SPECIAL EVENT: The Digital Engineering-Simulation Flywheel: Turning Models Into Mission Advantage

PLAZA BALLROOM

Digital engineering is the use of authoritative, connected digital representations to inform system design, development, analysis, and decision-making across the lifecycle. Perfect fit for modeling and simulation tech, right? Nonetheless, digital engineering and modeling and simulation are too often treated as adjacent disciplines: the former focused on authoritative system representation, the latter on experimentation and analysis. This panel explores a more impactful view, where digital engineering and simulation form a reinforcing flywheel. Digital models and representations enable more mission-relevant, connected, and reusable simulations; those simulations, in turn, generate evidence that improves designs, validates concepts, and informs acquisition. Drawing on perspectives from defense digital engineering, digital twins, and model-based mission engineering, the panel will examine how this flywheel can move M&S from a supporting activity to front and center as an engine for speed, integration, and mission impact.

MODERATOR

Dr. Benjamin Bell
General Manager, Advanced Capabilities Engineering, LLC

Richard Boyd
CEO, UltiSim

Daniel Hettema
Director of Digital Engineering, Modeling & Simulation, OUSD R&E

Dale Ormond
Senior Advisor, Kompozition

1515 – 1630 PRESENTATION SESSION III: Data Architectures and Mission Modeling

EMERGING CAPABILITIES | PLAZA BALLROOM I

1515 – 1540 **Datastore Centric Interoperability Framework for Scalable Simulation and AI Driven Warfighter Readiness**

Presenter: Jason Echols
Lockheed Martin, RMS, TLS

Dr. Robert Fitkin
Lockheed Martin, RMS, TLS

1540 – 1605 **A Data-Centric Simulation Ecosystem for Accelerated Operational Outcomes**

Presenter: Wayne Stilwell
Cole Engineering Services, Inc.

Ken Seedarnee
Cole Engineering Services, Inc.

1605 – 1630 **Using the Behavior Modeling Language to Create a Mission Model**

Presenter: Dale Ormond
Kompozition

Dan Powell
Kompozition

Tuesday Agenda

1515 – 1630 PRESENTATION SESSION III: Human Factors and Trust in AI-Enabled Readiness

MISSION READINESS | PLAZA BALLROOM II

1515 – 1540 **Content Readiness for Mission Readiness: Human Factors Guidance for AI-Enabled Training Ecosystems**

Presenter: Dr. Andrew Naber
Cognitive Performance Group

Tarah Daly
Cognitive Performance Group

1540 – 1605 **Simulating Human–AI–Environment Interactions for Identifying AI Misalignment Risks and AI Mission Readiness in Autonomous UAS Operations**

Presenter: Svitlana Volkova
Aptima, Inc.

Hsien-Te Kao
Aptima, Inc.

Laura Cassani
Aptima, Inc.

William Dupree
Aptima, Inc.

Kyle Shervington
Aptima, Inc.

Peter Bautista
Aptima, Inc.

1605 – 1630 **Pluralistic Human Evaluation as a Mission-Readiness Signal for Deployed AI**

Presenter: Arthur Cho
HumanJudge

Presenter: Manvee Bansal
HumanJudge

1515 – 1630 PRESENTATION SESSION III: Situational Awareness and Coordinated Autonomous Operations

AUTONOMY | PLAZA BALLROOM III

1515 – 1540 **Multi-Modal Battlefield Anomaly Detection for AI-Enabled Situational Awareness**

Presenter: Brendon Hales
Dignitas Technologies

Dr. Marjaneh Safaei
Dignitas Technologies

1540 – 1605 **Autonomous Vehicles & Unmanned Systems: Vision Clarity at Mission Speed**

Presenter: Jonathan Jessen
Sterling Computers

Eric Freer
Sterling Computers

1605 – 1630 **Multi-Vessel Coordinated Eye Gaze Control**

Presenter: Vanessa Barth
George Mason University

Dr. Leigh McCue-Weil
George Mason University

1630 – 1700 SPECIAL EVENT: One-Minute Spotlight

PLAZA BALLROOM

In this dynamic session, presenters distill their professional essence into a single slide and 60 seconds. Presenters will introduce themselves, outline their services or capabilities, and share their conference goals. Whether you're a researcher, entrepreneur, or industry professional, this rapid-fire spotlight ensures maximum impact in minimal time.

MODERATOR

Luke DeVore
Managing Partner, Voltron Group

1700 – 1830 OPENING RECEPTION

LOWER FOYER

Welcome Remarks

Vance Souders
2026 Conference Chair, Thermo Fisher

Reception Sponsor

VMASC
OLD DOMINION UNIVERSITY

2000 – 2200 **MODSIM AFTER DARK**
TERRACE

Join us for an immersive, after-dark vibe coding session where we dismantle traditional, passive team alignment meetings and replace them with a gamified, high-octane competitive sprint. Designed for developers, designers, product minds, and builders of all levels, this collaborative workshop challenges structured squads to work alongside specialized AI agent force multipliers to synthesize ideas, align designs, and deploy a fully functional, working MVP before the clock runs out. By transforming static consensus-building into an active, rolespecialized team sport, the event fosters an intense creative momentum fueled by both friendly rivalry and deep technical camaraderie. You will not just debate specifications; you will sketch layouts, synchronize architectures, resolve real-time conflicts, and walk out of the room with a tangible, working prototype that solves a real world problem randomly pulled from a hat filled by you and others preceeding the event. Bring you cellphone, thinking cap, and collaborative spirit and let's build something real together.

WEDNESDAY, 19 AUGUST

0700 – 1425 **REGISTRATION & EXHIBITS OPEN**
LOWER FOYER

0730 – 0830 **CONTINENTAL BREAKFAST**
LOWER FOYER

0830 – 0840 **DAY TWO WELCOME & OPENING REMARKS**
PLAZA BALLROOM

Vance Souders
2026 Conference Chair, Thermo Fisher

0840 – 0900 **INDUSTRY KEYNOTE**
PLAZA BALLROOM

Rahul C Thakkar
President, BAE Systems OneArc

0900 – 1000 **SPECIAL EVENT: Bridging Innovation to Capability: Operationalizing the Defense Innovation Ecosystem**
PLAZA BALLROOM

What does it really take to turn innovation into mission impact? Join leaders from Tech Grove, TechPort, and the Department of the Navy SBIR/STTR Program for an interactive discussion that challenges conventional thinking and explores how breakthrough technologies move from concept to operational capability. Through audience engagement, real-world scenarios, and candid conversation, attendees will gain practical insight into navigating the defense innovation ecosystem and accelerating technology transition for warfighter success.

MODERATOR

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

Amber Reep
Director, University of Central Florida Tech Grove

Brian Shipley
Director, DON SBIR/STTR Programs

Richard Tarr
Director, Southern Maryland Tech Bridge / TechPort

1000 – 1015 **NETWORKING BREAK & DEDICATED EXHIBIT TIME**
LOWER FOYER

1015 – 1035 **GOVERNMENT KEYNOTE**
PLAZA BALLROOM

Elmer Roman, SES
Deputy Assistant Secretary of War for Acquisition Integration and Interoperability, U.S. Department of War

Wednesday Agenda

1035 – 1150 PRESENTATION SESSION IV: Human-Centered Digital Twins and Extended Reality

EMERGING CAPABILITIES | PLAZA BALLROOM I

1035 – 1100 **Human Digital-Twin-Style Models for Early Deterioration Prediction in Austere Trauma Care: A Validation-Readiness Simulation Study**

Presenter: Pierina Giovanna Parejo Carrizales
University of Central Florida

Mustapha Mouloua
University of Central Florida

Ancuta Margondai
University of Central Florida

1100 – 1125 **An Extended Reality Assistant Improves Performance of an Austere Genomic Sequencing System for Novice Users**

Presenter: Nathan Fisher
Noblis, Inc.

Jenna Dundas
Noblis, Inc.

Nicholas Tolli
Noblis, Inc.

Stephanie Guertin
Noblis, Inc.

1125 – 1150 **Culturally Aligned Validated Population Simulation for Credible Deterrence in the Information Environment**

Presenter: Svitlana Volkova
Aptima, Inc.

Peter Bautista
Aptima, Inc.

Laura Cassani
Aptima, Inc.

William Dupree
Aptima, Inc.

Hsien-Te Kao
Aptima, Inc.

Patrick Gerard
Aptima, Inc.

1035 – 1150 PRESENTATION SESSION IV: Operational Readiness for Complex Missions

MISSION READINESS | PLAZA BALLROOM II

1100 – 1125 **Automated Coordination of Non-Kinetic Effects for Multi Domain Operations Training**

Presenter: Omar Hasan
Dignitas Technologies

Jason Strauss
U.S. Army DEVCOM SC

Jeffrey Welch
Dignitas Technologies

Patrick Hart
U.S. Army DEVCOM SC

J. Allen Geddes
U.S. Army DEVCOM SC

1125 – 1150 **LLMs Can Talk, but Can They Behave? Modeling Emotional Dynamics in AI-Driven Behavioral Training Simulations**

Presenter: Rachel Benton
Design Interactive, LLC

Jennifer Riley
Design Interactive, LLC

Gwen Campbell
Design Interactive, LLC

1035 – 1150	**PRESENTATION SESSION IV: Autonomous Agents for Wargaming and Decision Advantage** AUTONOMY | PLAZA BALLROOM III
1035 – 1100	**Society of Agents: A Constitutional Governance Architecture for LLM-Spawned Multi-Agent Simulation** Presenter: Dr. Charles Day Charles F. Day & Associates
1100 – 1125	**Autonomous AI Agents for Strategic Wargaming Simulation: Evaluating Creativity, Adaptation, and Alignment Under Adversarial Pressure** Presenter: Svitlana Volkova, Aptima, Inc. Hsien-Te Kao, Aptima, Inc. Laura Cassani, Aptima, Inc. William Dupree, Aptima, Inc. Patrick Gerard, Aptima, Inc. Dr. Summer Rebensky, Aptima, Inc.
1125 – 1150	**Wargaming, AI, and the Missing Middle: Building the M&S Ecosystem for Decision Advantage** Presenter: Jenna Tuck
1150 – 1250	LUNCH & DEDICATED EXHIBIT TIME TERRACE

Wednesday Agenda

1250– 1405 PRESENTATION SESSION V: Agent-Based Modeling for Complex Systems and Collaboration

EMERGING CAPABILITIES | PLAZA BALLROOM I

1250 – 1315 **Beyond Mineral Oil: An Agent-Based Monte Carlo Simulation of Sucrose-Water Solutions as Next-Generation Immersion Coolants for Data Center Thermal Management**

Presenter: Yash Patel
Valencia College

Cindy Von Ahlefeldt
University of Central Florida

Ancuta Margondai
University of Central Florida

Mustapha Mouloua
University of Central Florida

1315 – 1340 **Ludic Force Multipliers: Mitigating Collaborative Overhead in Software Design Meetings Through Gamified Prototyping and Multi-Modal Agent Synthesis**

Presenter: Andrew Hollis
Emerging Technology Support, LLC

1340 – 1405 **State-Based 3D Browser-Native Simulation: Enabling Secure, Scalable M&S at the Edge via WebGPU**

Presenter: Royal O'Brien
Expanxia, LLC

1250– 1405 PRESENTATION SESSION V: Performance Assessment, AAR, and Decision Speed

MISSION READINESS | PLAZA BALLROOM II

1250 – 1315 **From Human Observation to Automated Assessment: A BPMN-Based Approach to Analyst Performance Assessment**

Presenter: Dr. Andrew Naber
Cognitive Performance

Morgan Borders
Cognitive Performance

Emily Haynes
Cognitive Performance

Michael Williams
Cognitive Performance

Randy Weatherspoon
Cognitive Performance

Angela Karrasch
Cognitive Performance

Tarah Daly
Cognitive Performance

1315 – 1340 **Reducing Manual Reconstruction in AAR: A Deterministic Post-Mission Evaluation Support Approach for Training, Test, and Experimentation**

Presenter: Kira Mamula
Field IQ Systems

1340 – 1405 **Racing Intelligence: How Adopting Elite Racing Data Analysis Philosophies Compresses Time-to-Decision**

Presenter: Scott Raymond
ORCA Engineering

1250– 1405 PRESENTATION SESSION V: Training and Readiness in Human–Machine Environments

AUTONOMY | PLAZA BALLROOM III

1250 – 1315 **Simulation-Based Training of Industrial Plant Operators: Steelmaking Case Study**

Presenter: Xhulia Sina
SIM4Future

Kirill Sinelshchikov
SIM4Future

Marina Massei
SIM4Future

1315 – 1340 **Between Physical and Virtual: The Landscape of Immersive Medical Simulation**

Presenter: Dr. Mohammad F. Obeid
Shenandoah University

1340 – 1405 **GenAI-Enabled Courseware Modernization: Transforming ISD Processes to Strengthen Force Readiness**

Presenter: Dr. Erica Haglund
Dignitas Technologies

Wednesday Agenda

1405 – 1420 NETWORKING BREAK & DEDICATED EXHIBIT TIME
LOWER FOYER

1420 – 1520 SPECIAL EVENT: WARMATRIX & GEMSTONE BRIEFINGS
PLAZA BALLROOM

WarMatrix is an advance, AI powered, wargaming approach creating and integrated analytical environment enabling commander/operator in the loop capability to rapidly test operational and tactical courses of action.

Gemstone is a government owned, open-source, platform enabling authenticated access to common analysis workflows, simulation frameworks, curated data sources, and compute, simplifying modeling, simulation, and analysis for the DAF and DoW.

Sean Litton
Strategic Engineering Lead, DAF Modeling and Simulation Execution Office

Lt Col Jason Sutherlin, USAF
Program Manager, WarMatrix

1520 – 1525 CLOSING REMARKS & ADJOURN
PLAZA BALLROOM

Vance Souders
2026 Conference Chair, Thermo Fisher

Speakers

For a full list of speaker biographies, please scan the QR code.

THE SIMULATION CENTURY
TUESDAY, 18 AUGUST | 0930 – 1030

Richard Boyd
CEO, Ultisim
Moderator

Dr. Christa Peters-Lidard
Deputy Director for Hydrosphere, Biosphere, and Geophysics in the Earth Sciences Division, NASA Goddard Space Flight Center

Dr. Jeffrey Arnold
Executive Vice President, Science and Technology, ENTARIAN

THE DIGITAL ENGINEERING–SIMULATION FLYWHEEL:
TUESDAY, 18 AUGUST | 1415 – 1515

Dr. Benjamin Bell
General Manager, Advanced Capabilities Engineering, LLC
Moderator

Richard Boyd
CEO, UltiSim

Daniel Hettema
Director of Digital Engineering, Modeling & Simulation, OUSD R&E

Dale Ormond
Senior Advisor, Kompozition

ONE-MINUTE SPOTLIGHT
TUESDAY, 18 AUGUST | 1630 – 1700

Luke DeVore
Managing Partner, Voltron Group
Moderator

BRIDGING INNOVATION TO CAPABILITY:
WEDNESDAY, 19 AUGUST | 0900 – 1000

Amber Reep
Director, University of Central Florida Tech Grove

Brian Shipley
Director, DON SBIR/STTR Programs

Richard Tarr
Director, Southern Maryland Tech Bridge / TechPort

WARMATRIX & GEMSTONE
WEDNESDAY, 19 AUGUST | 1420 – 1520

Sean Litton
Strategic Engineering Lead, DAF Modeling and Simulation Execution Office

TRACK CHAIRS

AUTONOMY

Radhakishan "Kishan" Shetty | Chair
Principal Software Developer, Janus Research

JoAnn Archer | Deputy Chair
Deputy Director RDT&E, Design Interactive, LLC

EMERGING CAPABILITIES

Matthew "Matt" Pittard | Chair
Systems Engineer, BAE Systems, Inc.

Andrew Hollis | Deputy Chair
Special Projects Lead, Emerging Technology Support, LLC

MISSION READINESS

Madison Quinn | Chair
Research Lead, Engineering & Computer Simulations, Inc.

Jodie Mangor | Deputy Chair
Director of Grants and Research, SimX, Inc.

EcosySTEM of Learning

NTSA's EcosySTEM of Learning spans the lifecycle of learning. Opportunities abound for elementary and secondary students, college students, and the workforce to experience modeling and simulation through science, technology, engineering, and mathematics experiences. The four cornerstones of the program provide varying ways to engage with others in the modeling and simulation industry, through focused workshops, industry visits, and outreach encounters, the EcosSystem of Learning Pavilion and Discovery Den at I/ISTEC and career investment opportunities to include scholarship and career fairs. These events, occurring throughout the year, support learning at all levels, as well as professional development and workforce engagement.

Patient Safety Initiative

In 2020, NTSA launched an initiative to address the alarming statistics related to active and latent errors in healthcare which affect patient safety. Training through simulation has been shown to minimize errors and improve performance for healthcare workers in high stress environments. A working group was established and has been active since that time to delve deeper into ways that simulation can improve patient safety and thus lessen the number of errors in the patient care arena. This working group holds regular meetings and has established a campaign through the Modeling and Simulation Congressional Caucus to raise awareness of this issue, and establish legislation to support the application of modeling and simulation to this critical need. Legislation was passed in the last Congress, and the group continues to advance the initiative in the current Congressional budget cycles.

AI Working Group

As a result of the Modeling and Simulation Congressional Caucus Leadership Summit of 2025, NTSA launched a working group focused on Artificial Intelligence (AI). The modeling, simulation and training community has been integrating AI into the technologies that support national security, infrastructure, healthcare and education. It is critical that the application of AI supports rather than hinders national progress and security. Our Congressional representatives and our Caucus Members continue to seek the most appropriate application of legislation to encourage innovation while also establishing guardrails to protect our nation from the inappropriate use of AI and related technologies. This working group is focused on educating our lawmakers on these technologies, and on proposing the most effective ways that Congress can support the integration and application of these technologies. This group continues to provide white papers and educational opportunities on Capitol Hill to educate Members on proposed areas for legislative action.

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.

VADM Sean S. Buck, USN (Ret.)
President

Carol Dwyer, CMP
Manager, Registration & Certification

Debbie Langelier, CEM
Senior Vice President

Erica Albrittain
Senior Manager, Membership

Reneé Despot
Director, Meetings & Operations

Caitlyn Langelier
Associate Director, Meetings & Operations

Shannon Burch, CEM
Senior Director, Exhibits & Sponsorships

Tiffany Milnor
Manager, Exhibits & Operations

Exhibitors by Company

BAE Systems

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We're delivering next generation solutions to help connect, modernize, and empower the warfighter today and for decades to come. From advanced electronic warfare systems and kinetic weapons to leading solutions in combat air, and from transformation of data into intelligence to engineering of essential military systems around the globe - we help ensure the United States and its allies have the advantage on every mission. No matter the domain – air space or cyber – we rise to the challenge.
baesystems.com

Barco

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PROJECTOR SPONSOR

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

C2 Technologies, Inc. 10

NTSA CORPORATE MEMBER

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

CDW Government 5

CDW Government is a trusted technology partner to the Department of War, delivering mission-critical IT solutions across all military branches and combatant commands. From secure infrastructure and cloud to cybersecurity and tactical edge computing, we equip warfighters and DoW civilians with the technology needed to ensure mission readiness.
cdwg.com

Davis Infrastructure 7

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Davis Infrastructure designs, implements, and backs mission-critical and power solutions with top vendors and proven expertise, bringing teams together to deliver results you can count on.
davisinfra.com

Dignitas Technologies, LLC 15

NTSA CORPORATE MEMBER

Dignitas Technologies, LLC, a By Light Company subsidiary founded in 2004, supports U.S. military training and modernization efforts across the Department of Defense (DoD). With expertise in modeling and simulation, instructional design, system and software engineering, and training sustainment, Dignitas enables DoD organizations to achieve their goals. A trusted partner, Dignitas delivers high-quality services enhancing military readiness and effectiveness. With a proven track record, Dignitas drives modernization and training excellence across the DoD. Its expertise and experience help meet evolving military needs, positioning it for continued success in supporting DoD initiatives.
dignitastechnologies.com

Exhibitor Descriptions

Everpure 2

Everpure allows organizations to take control of their data with an industry-leading, ever-evolving storage and data management platform. We help organizations unleash the power of their data by ensuring it is secure, accessible, intelligent, and ready to perform in the AI era. By replacing rigid infrastructure with a platform that operates like a living system, Everpure makes data management effortless.

everpuredata.com/government

HII - Newport News Shipbuilding 3

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HII is America's largest shipbuilder and a global, all-domain defense provider. With a more than 140-year history of advancing U.S. national defense, we are united by our mission in service of the nation, creating the advantage for our customers to protect peace and freedom around the world. HII's diverse workforce includes skilled tradespeople; artificial intelligence, machine learning (AI/ML) experts; engineers; technologists; scientists; logistics experts; and business professionals.

hii.com

Model Based Xperts (MBX) 1

Model Based Xperts is an independent, unbiased consultancy specializing in Model-Based Engineering and digital transformation advisory for the Defense Industry, helping Program Executive Offices, Prime Contractors, and Suppliers adopt Model-Based practices without the bias of a toolset reseller. MBX is the creator of Transformation Intelligence™, a discipline for continuously understanding, governing, and optimizing organizational transformation through a Living Digital Transformation Workspace™, connecting leadership intent, execution progress, risk, and decision support in one operating picture. Kompozition, a sovereign digital Mission Engineering platform, serves as a preferred technology partner enabling that workspace, providing behavioral modeling, relationship mapping, and continuous intelligence capabilities. Together, MBX's methodology and Kompozition's platform give defense and government leaders a clearer path from strategic intent to executed, sustained transformation.

modelbasedxperts.com

Old Dominion University (ODU) Virginia Modeling, Analysis, & Simulation Center (VMASC) 6

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OPENING RECEPTION SPONSOR

The Old Dominion University's Virginia Modeling, Analysis, & Simulation Center (VMASC), located in Suffolk, Virginia, is pioneering next-generation modeling and simulation (M&S) for Joint All-Domain Operations. With 29 years of defense-focused research and a secure 60,000-square-foot facility, VMASC has a proven track record of integrating government, industry, and academic tools into joint training systems. Its research also aligns directly with OUSD(R&E) critical technology areas, including applied AI, the contested electromagnetic spectrum, and digital engineering.

vmasc.org

Schemata 8

NTSA CORPORATE MEMBER

Schemata is pioneering spatial intelligence by connecting AI to the physical world. We rapidly transform real-world systems like vehicles, equipment, facilities, and energy infrastructure into photorealistic, interactive 3D environments paired with an AI Instructor. This enables DoD and commercial teams to replace static work instructions, operating manuals, and legacy courseware with dynamic, immersive learning and decision-support experiences. Our AI-native 3D pipeline captures, renders, and semantically segments physical assets in a fraction of the time, unlocking scalable knowledge transfer, faster onboarding, and improved operational readiness across mission-critical environments.

schemata.com

Tech Wizards, Inc. 13

NTSA CORPORATE MEMBER

Tech Wizards, Inc. (TWI) is a small business founded in 2005 based in Dahlgren, VA. We provide advanced systems, software, AI solutions, and cybersecurity services to government and commercial clients. Our team delivers full-system and software life cycle support using modern, scalable, and maintainable methodologies.

TWI is best known for our Virtual Operator Trainers and Virtual Maintenance Trainers (VOTs/VMTs) – immersive 3D digital twins of tactical training equipment that improve proficiency and reduce costs. Paired with LOKI (Learning Optimization through Knowledge Insights), our AI plugin tracks and analyzes student performance to enhance training outcomes and support mission readiness.

tech-wizards.com

Training and Readiness Accelerator II (TReX II) Consortium 4

NTSA CORPORATE MEMBER

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

trexii.org

UltiSim

ATTENDEE BAGS SPONSOR

Richard Boyd, Co-Founder & CEO, UltiSim

UltiSim delivers enterprise-grade simulation, digital twin architecture, and AI-driven training systems to defense, healthcare, and government clients — built on a proven foundation of mission-critical execution for DARPA, Lockheed Martin, and the Department of Defense.

At the helm is Richard Boyd, whose 35 years of applied leadership spans the DoD Virtual World Framework, Brigade Combat

Team digital twins, and the Data Fusion Plane — an enterprise architecture enabling sovereign, AI-ready data environments at scale.

For fifteen consecutive years, Boyd has convened The Simulation Century at ModSim World — a forum he created to examine how the convergence of AI, knowledge graphs, and high-fidelity simulation is defining the strategic imperatives of this century.

This anniversary session delivers that perspective at full depth: where the field has been, where it must go, and what organizations must do today to achieve decision superiority.

ultisim.com

Vocavio Technologies 14

Vocavio's singular mission: provide operators and their instructors with repeatable and trusted measures of team communication effectiveness and performance.

Vocavio's containerized software-based solution interrogates the rhythmic and intonational aspect of spoken language (prosodic signals in voice), assessing communication performance and team dynamics from voice radio nets in synthetic training environments. Non-technical skills, such as effective versus mediocre communications, give the edge in unpredictable high-stakes operations, where resilient communications among team members is central to mission success.

Today, Vocavio supports US researchers and systems integrators with capability to assess mission-critical competencies in crewed operations and C2 systems. In addition, we seek new domains and partners to further deploy this emerging technology.

vocavio.com

Wave Sciences LLC 9

Wave Sciences develops advanced physics-based acoustic AI software to enhance sensing systems in complex environments.

Our breakthrough GLIMPSE® 3D spatial acoustic engine refocuses the acoustic field to detect, localize, and isolate signals of interest while suppressing competing noise and interference. Unlike conventional beamforming or signature-based approaches, GLIMPSE leverages sound propagation physics to improve performance in reverberant, cluttered, low signal-to-noise environments.

As a member of the 2026 NATO DIANA Cohort, we are applying GLIMPSE to enhance acoustic detection, 3D localization, and isolation of UAS. We have also demonstrated GLIMPSE in littoral, harbor, and riverine environments against UUVs and other low-signature underwater threats.

GLIMPSE is sensor-agnostic and integrates with existing arrays and multi-sensor architectures, where its outputs are fused with radar, EO/IR, RF, and sonar to improve system performance and situational awareness.

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