MONDAY, 1 DECEMBER • 1030 – 1200 • ROOM 330CDGH

CONGRESSIONAL M&S CAUCUS

MODERATOR

VICE ADMIRAL SEAN S. BUCK, USN (RET.)
President, National Training and Simulation Association (NTSA)

PANELISTS

NAME
District

NTSA and the I/ITSEC Conference 2025 are excited to host the Modeling and Simulation Congressional Caucus Special Event. All attendees and exhibitors are invited to hear first hand from our leaders in Congress who are committed to the success of our industry.

It is a great opportunity for you to interact with Congressional Members on issues of importance to you or your organization and to impress upon them the priorities of the modeling, simulation and training industry. With defense budgets and other Government budgets constantly in flux, this forum provides you a voice to advocate for the value of simulation for training in support of national security and resiliency.

CONGRESSIONAL M&S CAUCUS MEMBERS

BOBBY SCOTT
CAUCUS CO-CHAIR
3rd District, Virginia

JACK BERGMAN
CAUCUS CO-CHAIR
1st District, Michigan

JOHN RUTHERFORD
CAUCUS CO-CHAIR
5th District, Florida

DARREN SOTO
CAUCUS CO-CHAIR
9th District, Florida

ROBERT ADERHOLT
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DON BACON
2nd District, Nebraska

GUS BILIRAKIS
12th District, Florida

VERN BUCHANAN
16th District, Florida

KEN CALVERT
41st District, California

JACK ELLZEY
6th District, Texas

VIRGINIA FOXX
5th District, North Carolina

SCOTT FRANKLIN
18th District, Florida

MAX FROST
10th District, Florida

BRETT GUTHRIE
2nd District, Kentucky

ERIC SORENSEN
17th District, Illinois

MICHAEL TURNER
10th District, Ohio

JOE WILSON
2nd District, South Carolina

ROBERT J. WITTMAN
1st District, Virginia

TUESDAY, 2 DECEMBER • 1030 – 1200 • HYATT WINDERMERE BALLROOM

SENIOR LEADER PANEL

ALIGNING TRAINING, READINESS, AND ACQUISITION FOR OPERATIONAL DOMINANCE

MODERATOR

VICE ADMIRAL SEAN S. BUCK, USN (RET.)
NTSA, President

PANELISTS

NAME
Org

VADM BUCK, USN (RET.)

NAME

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NAME

Global defense forces today operate in an era of unpredictable budgets, rapidly evolving threats, and accelerating technological disruption. Militaries must remain prepared to operate and execute across a wide spectrum of missions – from humanitarian assistance and disaster relief to the increasing demands of near-peer competition. At the same time, nations are navigating both the opportunities and vulnerabilities presented by emerging technologies and persistent cybersecurity risks.

Our Senior Leader Panel will examine these challenges and opportunities within the framework of this year's theme: *Optimizing Training: Ensuring Operational Dominance*.

This distinguished panel brings together senior representatives from the U.S. Military Services, the Office of the Secretary of Defense, and key international allies. Following opening perspectives, the panel will move directly into an interactive conversation — fielding questions from the moderator and the audience. Attendees can also submit questions in advance for consideration.

This is more than a panel — it's a front-row seat to the strategies and priorities shaping tomorrow's force. A rare chance to hear directly from national and international defense leaders on the future of training, readiness, and deterrence. Don't miss the opportunity to gain first-hand insights into how our most senior decision-makers are shaping the way ahead.

TUESDAY, 2 DECEMBER • 1400 – 1530 • ROOM 330AB

MODERN & EMERGENT TECHNOLOGIES FOR SOF READINESS

DISCUSSION OF MODERN & EMERGENT TECHNOLOGIES FOR SOF READINESS

MODERATOR

NICOLE NEMMERS
Deputy-Chief Digital & Artificial Intelligence Officer, USSOCOM

PANELISTS

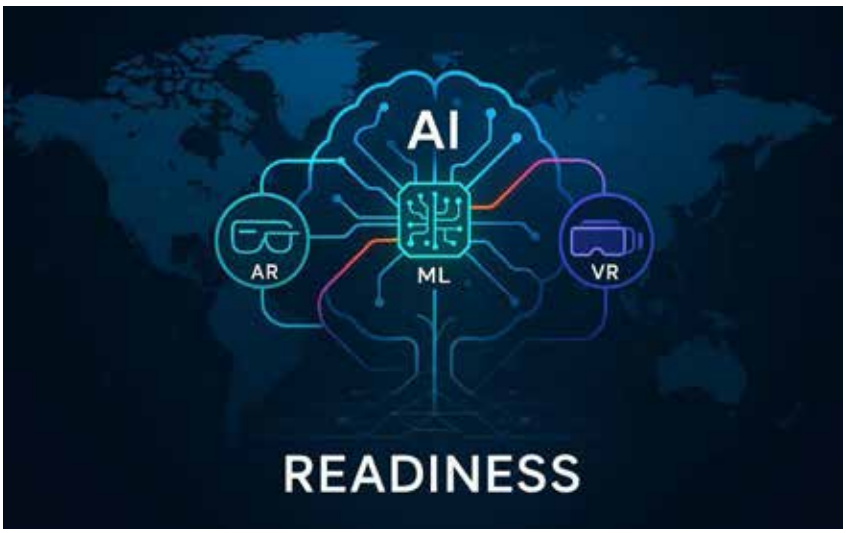
MAJOR GENERAL SHAWN SATTERFIELD, USA
Director, Force Development & Design, (J7), USSOCOM

JOE MILLER, SES
Deputy to the Commanding General, U.S. Army Special Operations Command

COLONEL MARK H. SMITH, USAF
Chief, Operations Training Division (A3T), HQ Air Force Special Operations Command

COLONEL JEFF COULON, USA
Commander, JTF 53-7, USSOCOM

JOHN GREEN
Director, Special Programs, Naval Special Operations Command



MS. NEMMERS

MG SATTERFIELD, USA

MR. MILLER, SES

COL SMITH, USAF

COL COULON, USA

MR. GREEN

This panel discussion brings together SOF senior leaders to delve into the subject of integrating advanced technologies—Augmented Reality (AR), Artificial Intelligence (AI), Machine Learning (ML), and Virtual Reality (VR)—into the realm of special operations training. Focusing on JLVC joint exercises framework, the event will examine how these cutting-edge tools can enhance effectiveness, adaptability, and realism. Discussion areas include benefits and potential challenges of incorporating AI into training methodologies, such as balancing automation with human decision-making, and how AR and VR can revolutionize mission rehearsal by creating immersive and dynamic simulation environments.

TUESDAY, 2 DECEMBER • 1400 – 1530 • ROOM 330CDGH

CONVERSATION ON TRAINING WITH DAF LEADERS

DISCUSSION OF MODERN & EMERGENT TECHNOLOGIES FOR SOF READINESS

MODERATOR

ROWAYNE A. "WAYNE" SCHATZ JR., SES
Director for Studies & Analysis, Office of the Secretary of the Air Force

PANELISTS

LIEUTENANT GENERAL DAVID H. TABOR, USAF
Deputy Chief of Staff of Plans and Programs, Headquarters U.S. Air Force

LIEUTENANT GENERAL DAVID A. HARRIS, USAF (INVITED)
Deputy Chief of Staff, Air Force Futures, Headquarters, U.S. Air Force

MAJOR GENERAL CLARK J. QUINN, USAF
Deputy Commander, AETC

MAJOR GENERAL JAMES E. SMITH, USSF (INVITED)
Commander, STARCOM

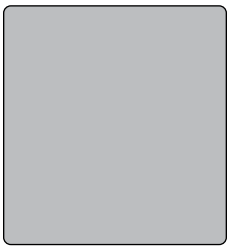
BRIGADIER GENERAL TRAVOLIS SIMMONS, USAF (INVITED)
Deputy Chief of Staff for Operations, Headquarters U.S. Air Force

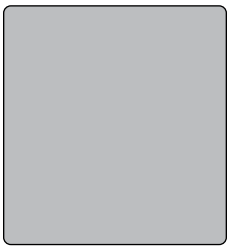
MR. SCHATZ, JR., SES

LT GEN TABOR, USAF

LT GEN HARRIS, USAF

MAJ GEN QUINN, USAF


MAJ GEN SMITH, USSF


BRIG GEN SIMMONS, USAF

At an inflection point, the need for a highly trained and lethal Department of the Air Force has never been greater. This panel convenes Air Force and Space Force leaders from acquisition, research & technology, and mission readiness to explore how training, simulation and education is evolving into a critical force multiplier. Attendees will gain insight into:

- How the DAF is preparing Airmen and Guardians to prevail in complex, data-driven battlespaces.
- Maximizing efficiencies through M&S to accelerate training timelines, optimize resource allocation, and deliver more capable forces faster.
- The Air Force's vision for next-generation M&S and how industry partners can help.

TUESDAY, 2 DECEMBER • 1600 – 1730 • ROOM 330CDGH

BREAKING THROUGH BARRIERS

ALIGNING AIR FORCE M&S RESEARCH, ACQUISITION, AND OPERATIONS

MODERATOR

RICHARD TEMPALSKI, HQE
Chief Modeling & Simulation Officer, CMSO

PANELISTS

LIEUTENANT GENERAL DONNA D. SHIPTON, USAF
Commander, AFLCMC

BRIGADIER GENERAL JASON E. BARTOLOMEI, USAF
Commander, AFRL

AMANDA GENTRY, SES
Director, AFMC IDO

RODNEY STEVENS, SES
Program Executive Officer Training, OTTI

MR. TEMPALSKI, HQE

LT GEN SHIPTON, USAF

BRIG GEN BARTOLOMEI, USAF

MS. GENTRY, SES

MR. STEVENS, SES

In the rapidly evolving digital battlespace, the speed at which we can transition innovative Modeling and Simulation (M&S) solutions from industry concepts to operational capabilities is critical for the Air Force's continued dominance. This panel discussion dives into the challenges and opportunities in bringing cutting-edge M&S technologies from industry R&D to the hands of our Warfighters.

- Hear directly from Air Force leadership in R&D and acquisition on their strategies for accelerating M&S technology transition.
- Discover how AFRL, AFLCMC, and the Chief of Modeling and Simulation Office are working together to streamline processes, foster communication, and leverage emerging technology.

WEDNESDAY, 3 DECEMBER • 0830 – 1000 • ROOM 330AB

MARINE CORPS GENERAL OFFICER PANEL

MODERATOR

COLONEL WYNNDEE M. YOUNG, USMC
Program Manager, Program Manager Training Systems, MARCOSYSCOM

PANELISTS

LIEUTENANT GENERAL BENJAMIN T. WATSON, USMC
Commanding General, Training and Education Command

BRIGADIER GENERAL TAMARA L. CAMPBELL, USMC
Commander, MARCOSYSCOM

BRIGADIER GENERAL MICHAEL A. BROOKS, USMC
Commanding General, Training Command

BRIGADIER GENERAL SIMON M. DORAN, USMC
Commanding General, Marine Corps Warfighting Laboratory

COL YOUNG, USMC

LTGEN WATSON, USMC

BGEN CAMPBELL, USMC

BGEN BROOKS, USMC

BGEN DORAN, USMC

This panel of Marine Corps General Officer will address the critical imperative of optimizing training to maintain operational dominance in a rapidly evolving threat environment. Discussions will center on innovative approaches to training methodologies, leveraging technology, and adapting curricula to meet future warfighting demands. Key topics include integrating live, virtual, and constructive training; fostering critical thinking and adaptability; and building resilient, lethal, and highly skilled Marines. The panel will explore how to best prepare Marines for the challenges of multi-domain operations and ensure continued superiority on the battlefield.

WEDNESDAY, 3 DECEMBER • 1030 – 1200 • ROOM 310AB

NAVY FLAG OFFICER PANEL

MODERATOR

VICE ADMIRAL SEAN BUCK, USN (RET.)
President, National Training and Simulation Association

PANELISTS

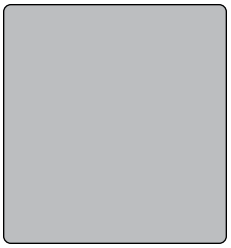
REAR ADMIRAL ANTHONY CARULLO, USN (INVITED)
Director of Warfighting Development

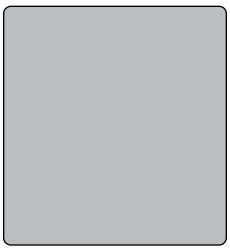
REAR ADMIRAL WILLIAM DALY, USN (INVITED)
Director, Surface Warfare Division, Office of the Chief of Naval Operations

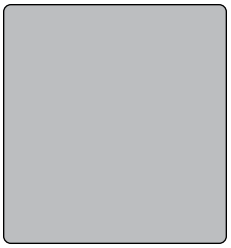
REAR ADMIRAL PETER SMALL, USN (INVITED)
Commander, Naval Surface and Undersea Warfare Centers

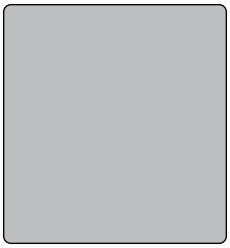
REAR ADMIRAL TODD WEEKS, USN (INVITED)
PEO Strategic Submarines

VADM BUCK, USN (RET.)


RADM CARULLO, USN


RADM DALY, USN


RDML SMALL, USN


RDML WEEKS, USN

This event gathers Navy Flag Officers to discuss challenges in acquisition, research & technology, and mission readiness as we work to deter and engage long-term competition. A central theme will be the role of the modeling and simulation community in developing cutting-edge solutions that enhance our warfighting capabilities and ensure we remain postured to deter aggression and win the fight, when needed. Discover how the Navy will achieve this, while maintain a viable plan for funding and acquiring these capabilities.

WEDNESDAY, 3 DECEMBER • 1030 – 1200 • ROOM 330CDGH

CUTTING EDGE INNOVATION – RAPIDLY ADVANCING M&S TO SUPPORT JOINT ALL-DOMAIN TRAINING

THE JOINT STAFF ACCELERATES JOINT FORCE WARFIGHTING READINESS, INCREASES LETHALITY, AND STRENGTHENS DETERRENCE GLOBALLY – M&S MUST KEEP PACE

MODERATOR

COLONEL TIMOTHY D. RUSTAD, USA
Division Chief, Joint Technology and Simulation Division, Joint Staff J7, Deputy Directorate Joint Training and Exercises

PANELISTS

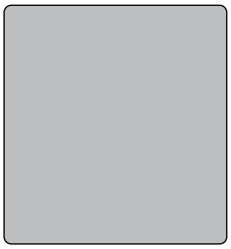
BRIGADIER GENERAL DAVID R. EVERLY, USMC
Joint Staff, Deputy Director, J7, Joint Training and Exercises

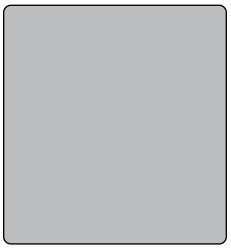
SEAC DAVID ISOM, USN
Senior Enlisted Advisor to the CJCS

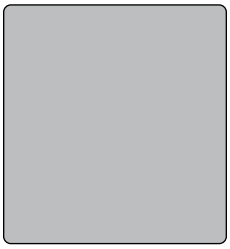
BRIGADIER GENERAL RICHARD GOODMAN, USAF
Director of Training, INDOPACOM

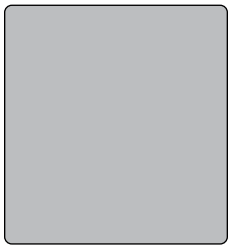
MAJOR GENERAL TROY L. ENDICOTT, USSF
Joint Staff, J-7, Vice Director for Joint Force Development

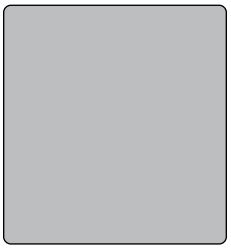
BRIGADIER GENERAL DAMIAN HILL
Director, General Joint Collective Training Branch (J7), Joint Operations Command, Australia

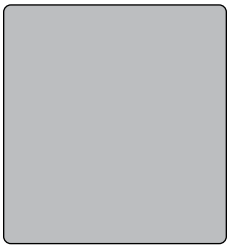

COL RUSTAD, USA


BGEN EVERLY, USMC


SEAC ISOM, USN


BRIG GEN GOODMAN, USAF


MAJ GEN ENDICOTT, USSF


BG HILL, AUS

Overview: The Joint Force must be ready to conduct globally integrated, cross-functional, multi-domain operations as required by the Global Posture of the U.S. and Allies. Cutting edge innovation will support Joint Force warfighting readiness, increase lethality, and strengthen deterrence globally – M&S training capabilities must keep pace. DoD established Elite Constellation (EC) in 2024 as a multi-year campaign of events that increases the ability of the Joint Force to conduct globally integrated, cross-functional, multi-domain operations as envisioned in the Joint Warfighting Concept. EC accelerates Joint Force warfighting readiness, increases lethality, and strengthens deterrence globally – M&S must keep pace.

WEDNESDAY, 3 DECEMBER • 1330 – 1500 • ROOM 310AB

NAVAL AVIATION FLAG OFFICER PANEL

MODERATOR

PAUL SUHL (INVITED)
CEO, Florida High Tech Corridor

PANELISTS

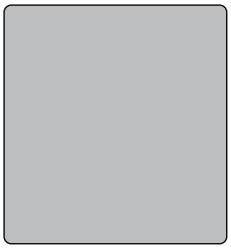
REAR ADMIRAL DOUGLAS VERISSIMO, USN (INVITED)
Commander, Naval Air Force Atlantic

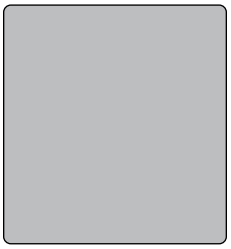
REAR ADMIRAL TODD EVANS, USN
Commander, Naval Air Warcraft Center Aircraft Division

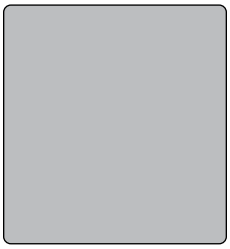
REAR ADMIRAL MAX McCOY, USN
Chief, Naval Air Training

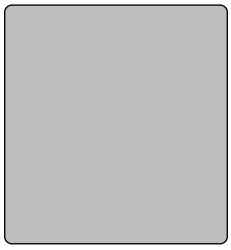
REAR ADMIRAL GREGORY HUFFMAN, USN (INVITED)
Commander, NETC

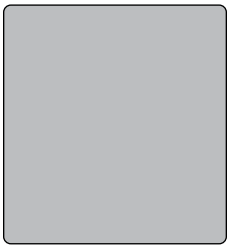
REAR ADMIRAL JOSEPH HORNBUCKLE, USN
Title, Org

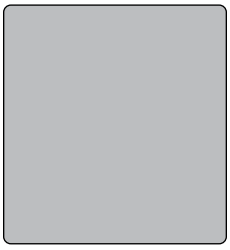

MR. SUHL


RADM VERISSIMO, USN


RDML EVANS, USN


RADM McCOY, USN


RADM HUFFMAN, USN


RADM HORNBUCKLE, USN

This panel of senior Navy leaders from the aviation community will discuss the focus on modeling and simulation to enable training. To ensure our Naval Aviation remains at the forefront, we have established strategic focus areas that will guide all development efforts in training, technology, and tactics. These priorities directly target key warfighting gaps, ensuring that we maintain a decisive advantage while innovating in both existing and new training programs. By staying aligned, focused, and leveraging the power of M&S, we will remain a relevant and advanced warfighting force for the future, now and in any potential war.

WEDNESDAY, 3 DECEMBER • 1530 – 1700 • ROOM 330CDGH

JOINT DEVELOPMENT, EDUCATION, AND TRAINING PANEL

TRAINING COMMANDS' PERSPECTIVES

MODERATOR

WENDY WALSH, ED.D.
Title, Org

PANELISTS

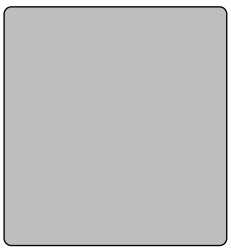
LIEUTENANT GENERAL DAVID M. HODNE, USA (INVITED)
Title, Org

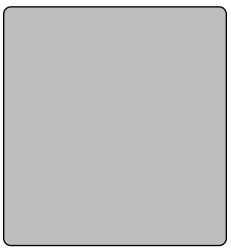
LIEUTENANT GENERAL BENJAMIN T. WATSON, USMC (INVITED)
Title, Org

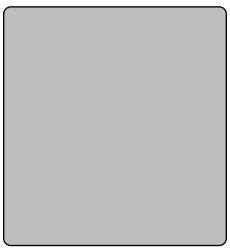
MAJOR GENERAL CLARK J. QUINN, USAF
Title, Org

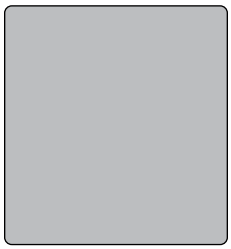
REAR ADMIRAL GREGORY CLARK HUFFMAN, USN (INVITED)
Title, Org

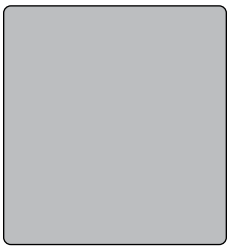
MAJOR GENERAL JAMES E. SMITH, USSF (INVITED)
Title, Org

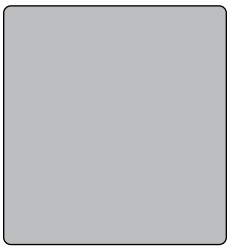

DR. WALSH


LTG HODNE, USA


LTGEN WATSON, USMC


MAJ GEN QUINN, USAF


RADM HUFFMAN, USN


MAJ GEN SMITH, USSF

In today's dynamic and global landscape, achieving and maintaining operational dominance requires seamless Joint operations and a highly trained, ready force. This panel will delve into the critical elements of effective Joint military training and education from the perspective of experienced training commanders. This session offers an opportunity for attendees to gain firsthand knowledge from commanders at the forefront of military training, understand their priorities, and engage in a dynamic discussion about the future of Joint military education and its vital role in securing operational dominance.

MONDAY, 1 DECEMBER • 1430 – 1530 • ROOM 320A

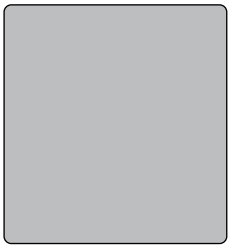
CERTIFIED M&S PROFESSIONAL 3.0

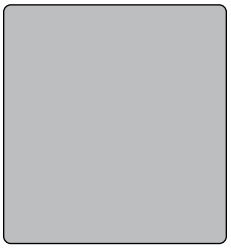
THE DISTINCTION OF A TRUE M&S PROFESSIONAL

MODERATOR
TBD
Title, Org

PANELISTS
TBD
Title, Org

CMSP
CERTIFIED MODELING AND SIMULATION PROFESSIONAL


NAME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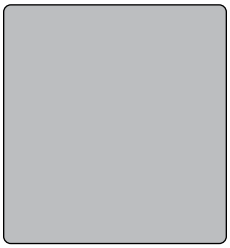
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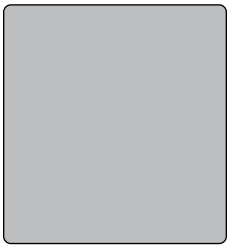
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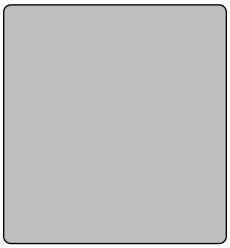
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CMSP is the only encompassing M&S professional certification. It provides differentiation, community awareness, specialized networks, and membership benefits. Its reinvention was unveiled in 2021 with CMSP 3.0. This version streamlines the processes, updates the examination, employs a Learning Management System, and is a part of creating a vibrant community of practice! All M&S practitioners seeking to enhance their credentials and to add a level of distinction to their qualifications — from Intern, Apprentice, Practitioner, and Master Levels — will find this Focus Event informative and valuable. Attendees will learn: The motivators behind starting CMSP, its evolution, and future plans.

MONDAY, 1 DECEMBER • 1530 – 1700 • ROOM 330CDGH

BLACK SWAN – THE FOUR HORSEMEN OF AI

WHEN DIME FACES ITS FINAL BATTLE

MODERATOR

MARRYAM CHAUDHRY
President & Chief Executive Officer, XR 2 LEAD LLC

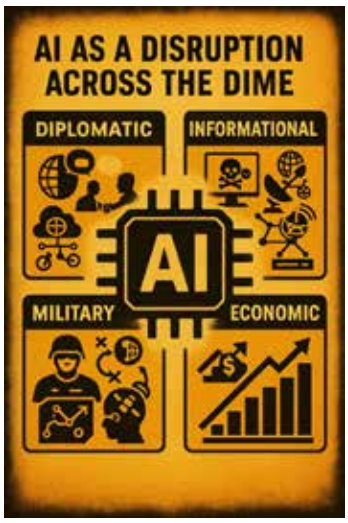
PANELISTS

MOLLY JUST-BEHR
Global Head of Public Sector, Databricks

DAVID METCALF, PH.D.
Director, Mixed Emerging Technology Integration Lab (METIL), UCF Institute for Simulation and Training

AMBASSADOR DANIEL SHIELDS
Editorial Advisor, Journal of Indo-Pacific Affairs

RAY COMPTON
Fellow, LMI



MS. CHAUDHRY

MS. JUST-BEHR

DR. METCALF

AMB. SHIELDS

MR. COMPTON

What happens when AI simultaneously disrupts the Diplomatic, Informational, Military, and Economic (DIME) domains? This Black Swan event explores AI convergence across DIME, using modeling/simulation to train leaders when traditional systems fail. Picture algorithmic agents conducting diplomacy in microseconds while autonomous systems bypass human oversight entirely. The machines are rewriting the rules of power faster than we can adapt. When human decision-making becomes obsolete, how do we maintain control? The disruption isn't coming—it's here, embedded, and accelerating. For defense strategists and security professionals facing an uncertain future.

MONDAY, 1 DECEMBER • 1600 – 1730 • ROOM 330EF

2025 I/ITSEC FELLOWS PRESENTATION

BEING ELECTED A FELLOW IS THE HIGHEST HONOR BESTOWED
BY THE NTSA ON BEHALF OF THE WORLD-WIDE MS&T COMMUNITY

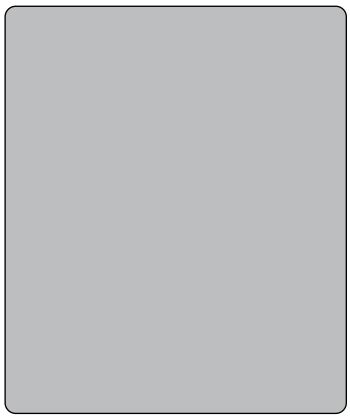
I/ITSEC Fellows is a series of presentations by technical leaders responsible for the seminal contributions that have fundamentally shaped the simulation and training capabilities being delivered today. The conference leadership invites iconic visionaries to share their insight for future developments and to describe their part in reaching our current posture, relating both their success and challenges as enduring lessons learned that will apply across a broad range of endeavors as the community moves forward.

MODERATOR

BRIAN HOLMES
President and Managing Partner, InnoVāxion Business Consulting, LLC
Chair, I/ITSEC Fellows Committee

2025 I/ITSEC FELLOW

TBD
Title, Org

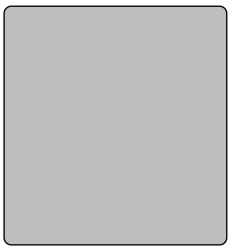


MONDAY, 1 DECEMBER • 1600 – 1730 • ROOM 330AB

A JOINT SERVICE M&S CERTIFICATE FOR LEARNING PROFESSIONAL

MODERATOR
TBD
Title, Org

PANELISTS
TBD
Title, Org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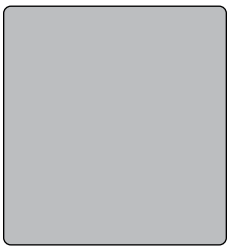
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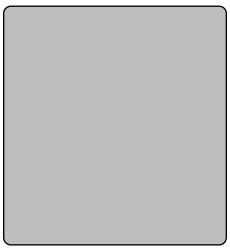
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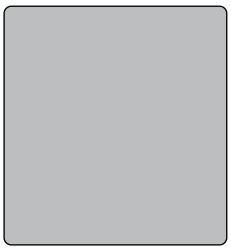
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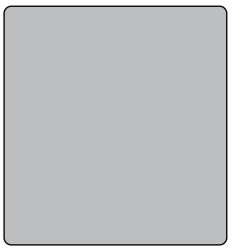
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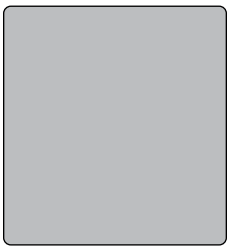
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Modeling and simulation (M&S) technologies offer transformative potential for learning, creating immersive experiences that mirror real-world scenarios, adjusting to learner preferences and targeting specific competency acquisition. Yet, despite the promise of M&S to accelerate competency-based learning, its full potential remains untapped. This panel will discuss successes and challenges related to technology exposure, acquisition, effectively measuring learning, and faculty development to contribute to support the successful utilization of M&S in military force development settings. Specifically, we will discuss the idea of M&S Certificate program for learning professions.

TUESDAY, 2 DECEMBER • 1400 – 1530 • ROOM 310CD

THE FUTURE OF HEALTHCARE SIMULATION

BUILDING THE FUTURE WE NEED

MODERATOR

BOB ARMSTRONG
ExDir, Sentara Center for Healthcare Simulation and Immersive Learning; Asst Prof, EVMS School of Health Professions, Program Director, National Center for Collaboration in Medical Modeling & Simulation; Director of Corporate Relations, Macon & Joan Brock Virginia Health Sciences, Old Dominion University

PANELISTS

HARU OKUDA, M.D.
Associate Vice President, Office of Interprofessional Education and Practice; Chief Executive Officer, Health Professions Conferencing Corporation; Executive Director, Center for Advanced Medical Learning and Simulation; Director, College of Medicine Internal Medicine, University of South Florida

JENNIFER MANOS
Executive Director, Society for Simulation in Healthcare

PAUL E. PHRAMPUS, M.D.
Professor of Emergency Medicine and Anesthesiology and Perioperative Medicine, Director, Peter M. Winter Institute for Simulation, Education, and Research (WISER), University of Pittsburgh

SSH
Society for Simulation in Healthcare™

MR. ARMSTRONG

DR. OKUDA

MS. MANUS

DR. PHRAMPUS

Prior to the 2025 International Meeting on Simulation in Healthcare (IMSH), the Society for Simulation in Healthcare (SSH) held a Forum titled "Healthcare Simulation 2050: Building a Better Future Together." The Forum brought together 200 simulation stakeholders from academia, clinics, and academia to brainstorm on the capabilities they felt they would need in the next 25 years.

This Special Event provides an overview of the findings from this Forum, presented by several breakout group leads, with data informed through analysis of the collected data.

TUESDAY, 2 DECEMBER • 1600 – 1730 • ROOM 310CD

EVOLUTION OF MILITARY HEALTHCARE TRAINING – SENIOR LEADER PERSPECTIVES

ADDRESSING OPERATIONAL MEDICAL CHALLENGES WITH SIMULATION AND TRAINING

MODERATOR

MATTHEW HACKETT, PH.D.
S&T Manager, U.S. Army DEVCOM SC

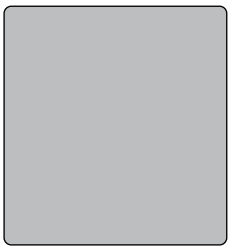
PANELISTS

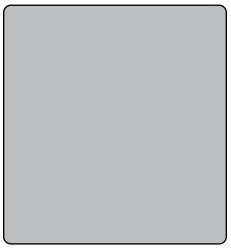
COLONEL PAUL KWON, USA
DHA Education and Training

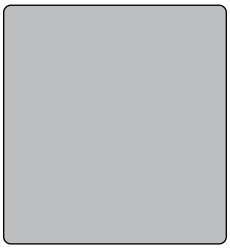
COLONEL ERIC JACOBSON, USA
Medical Center of Excellence, Directorate of Simulation

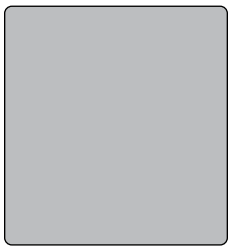
COMMANDER JAY HARAN, USN
Navy Bureau of Medicine

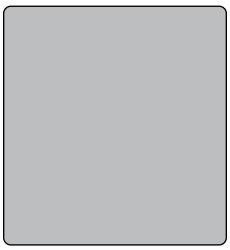
JEREMY PAMPLIN
Program Manager, DARPA Biological Technologies Office


DR. HACKETT


COL KWON, USA


COL JACOBSON, USA


MR. PAMPLIN


CDR HARAN, USN

The Military Healthcare System (MHS) supports the Warfighter, whether on the battlefield or the bedside. The MHS is evolving to address the shifting operational environment, including those related to large scale combat operations. This panel includes senior leaders from across the MHS. The panel will highlight the current landscape and challenges within military healthcare, as well as the role that training and simulation plays in addressing issues and upskilling providers.

TUESDAY, 2 DECEMBER • 1600 – 1730 • ROOM 310AB

JOINT SENIOR ENLISTED PANEL

MODERATOR

CHIEF MASTER SERGEANT KARMANN-MONIQUE POGUE, USSF
Command Senior Enlisted Leader, STARCOM

PANELISTS

SERGEANT MAJOR CHARLES "CHUCK" HOUSTON, USA
Senior Enlisted Advisor, U.S. Army PEO STRI

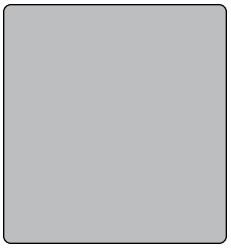
FLEET MASTER CHIEF DUSTIN KUERS, USN (INVITED)
Fleet Master Chief, Commander Naval Air Pacific

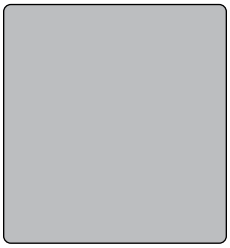
CHIEF MASTER SERGEANT CHAD BICKLEY, USAF (INVITED)
Command Chief, AETC

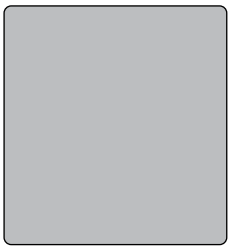
MASTER SERGEANT DANIEL BASAN, USMC
START Program Manager, NAWCTSD

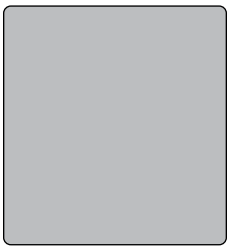
SENIOR MASTER SERGEANT JUSTIN M. CREGER, USSF (INVITED)
Senior Enlisted Leader, SYD 81, Space Systems Command

CMSGT POGUE, USSF


SGM HOUSTON, USA


FLTCDM KUERS, USN


CCM BICKLEY, USAF


MSGT BASAN, USMC

SMSGT CREGER, USSF

This Panel will convene Senior Enlisted Representatives from the Joint Force. Discussion will focus on Joint training priorities, leadership roles in strengthening training culture, and practical partnership approaches that measurably improve Readiness. Time will be allocated for audience Question and Answer (Q&A).

Key Takeaways: Joint Readiness Priorities: Enlisted perspectives on what "ready" looks like, clear expectations for training outcomes, repetition, and mission focus that translate to the unit level.

Enlisted Leadership Imperatives: How SELs shape training culture, accountability, and force development; reinforcing standards, discipline, and proficiency across formations. Partnership and Delivery: Practical partnership approaches that can improve readiness.

Recommended Participants: Senior Enlisted Leaders (E-7 through E-9), Command Chiefs/Sergeants Major, and Unit Training Superintendents Commanders, Operations/Training Officers, and professionals responsible for Unit-Level Readiness Government Civilians and Mission Partners supporting training integration and range operations Acquisition/Program Managers, Requirements Leads, and Engineers shaping training system capabilities Allied and Partner Nation Delegations engaged in joint/combined training Industry Executives and Technical Leads

WEDNESDAY, 3 DECEMBER • 0830 – 1000 • ROOM 310AB

USSF TRAINING & OPERATIONS PANEL

MODERATOR

TBD
Title, Org

PANELISTS

TBD
Title, Org

TBD
Title, Org

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Title, Org

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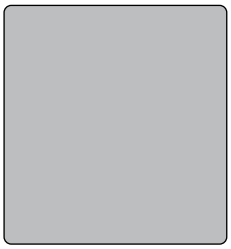
Title, Org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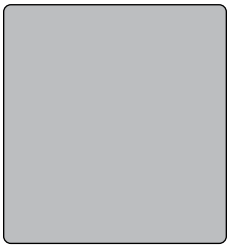
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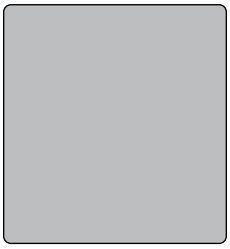
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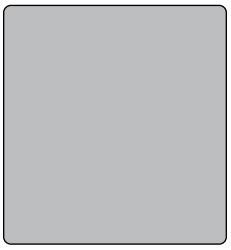
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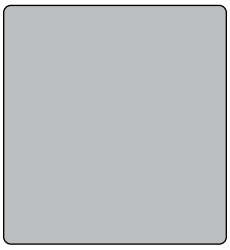

NAME

This Panel convenes U.S. Space Force (USSF) Commanders to provide the Operators' Perspective on current and emerging operational demands, training readiness, and mission execution across the Space Enterprise. Panel composition includes the Space Training and Readiness Command (STARCOM) Delta 10 and Delta 11 Commanders and two Space Operations Command (SpOC) Mission Delta (MD) leaders. Discussion will center on operational risk, readiness, and the decision-quality information Commanders require from training, testing, and acquisition partners to deliver combat-credible effects.

Key Takeaways: Commander Priorities for Readiness: Clear, mission-focused expectations for training outcomes, exercises, and wargames that translate directly to Unit-Level proficiency and operational availability.

Recommended Participants: O-5/O-6 Command Teams, Senior Enlisted Leaders, and Unit/Delta Operations and Training Leadership. Requirements, Training, and Acquisition Professionals. Government Civilians and Mission Partners supporting ranges, M&S/LVC integration, and mission readiness. Industry Executives and Technical Leads seeking Commander-level guidance on operational value, transition, and sustainment.

WEDNESDAY, 3 DECEMBER • 1030 – 1200 • ROOM 330EF

ELECTROMAGNETIC SPECTRUM IMPACTS ON DOD TRAINING

SPECTRUM REPURPOSING IMPACTS TO CONUS TRAINING AND WARFIGHTER READINESS

MODERATOR

GINA TYRRELL
OUSD R&E/U.S. Army TSMO

PANELISTS

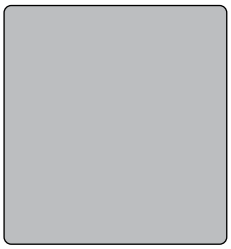
TBD
5G SME

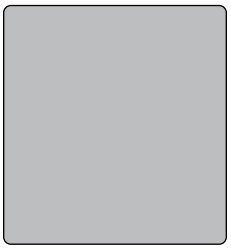
TBD
EW Training SME
USSTRATCOM

TBD
Spectrum Technologist
OUSD (R&E)

TBD
Training SME
OUSD (P&R)

TBD
Enterprise Spectrum Lead
DoD CIO


MS. TYRRELL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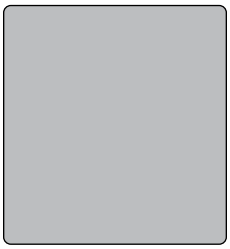
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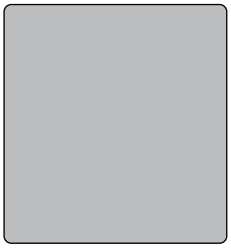
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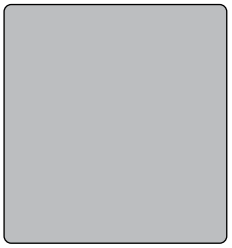
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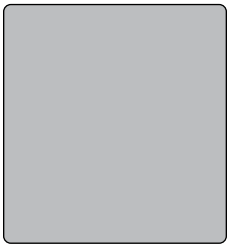

NAME

The government auction of hundreds of MHz of spectrum to commercial industry for broadband use has an ever-increasing impact on military training programs, including threat systems, instrumentation, and training realism. The rapidity of the auctions is challenging training programs and industrial capacity as they develop and execute risk mitigation strategies. This panel will address past and future auctions, impacts on training, and risk mitigation efforts.

WEDNESDAY, 3 DECEMBER • 1330 – 1500 • ROOM 330EF

WOMEN IN MODELING AND SIMULATION

MODERATOR

JENNIFER SOLBERG, PH.D.
Chief Executive Officer, Quantum Improvements Consulting

PANELISTS

TBD
Title, Org

DR. SOLBERG

NAME

NAME

NAME

NAME

NAME

Over the past decades, the defense industry has shifted toward including women in every level of operations and decision-making. Despite these positive steps, women still navigate specific challenges in the workplace. Understanding women's experiences in modeling and simulation, and in defense broadly, will help organizations make smart human resources and policy decisions. In this panel, women from a variety of career paths — Active Duty, DoD civilian, and industry — will share their workplace experiences. Our discussion will cover topics such as leadership, mentorship, and how to succeed in today's environment.

WEDNESDAY, 3 DECEMBER • 1330 – 1500 • ROOM 310CD

TRAINING & READINESS ACCELERATOR II (TReX II)

MODERATOR

TBD
Title, Org

PANELISTS

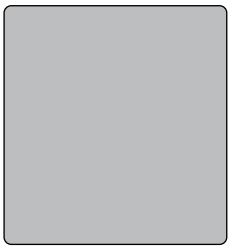
VINCE MALONE (INVITED)
Executive Director, TReX II

JEFF KERSEY (INVITED)
Program Manager, Advanced Technology International

MONICA ESCALANTE (INVITED)
Agreements Officer, ACC-Orlando

MICHELLE MURFITT (INVITED)
Contracts Management, Lockheed Martin

GISELE BENNETT, PH.D. (INVITED)
Research Engineer, MEPSS, LLC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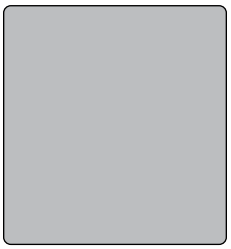
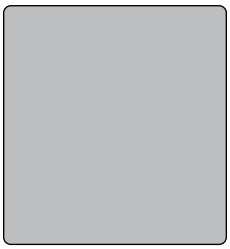
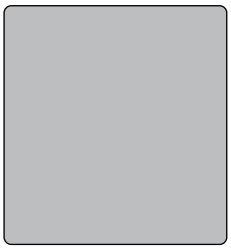
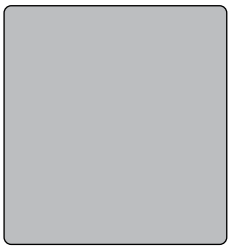
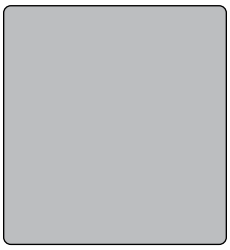

MR. MALONE


MR. KERSEY


MS. ESCALANTE


MS. MURFITT


DR. BENNETT

Inform how federal government agencies can launch technology advancing prototype projects utilizing the TReX II other transaction authority contracting mechanism. Inform how industry partners can participate in the TReX II consortium and compete for technology advancing opportunities to benefit military programs. Scope for TReX II includes modeling, simulation, education and training, experimental validation, readiness, and information operations.

This event provides government and industry partners an opportunity to engage with the TReX II team to learn the intricacies of the program — the processes, the speed and agility to get on contract within weeks, as well as the toolsets available.

WEDNESDAY, 3 DECEMBER • 1530 – 1700 • ROOM 310CD

AF MAJCOM PANEL

MODERATOR

COLONEL ANTHONY C. GRAHAM, USAF
Commander, AFAMS

PANELISTS

TBD
Title, Org

TBD
Title, Org

COLONEL CHAD DAVIES, USAF
Chief, Ops Training, Test & Standard/Evaluation Division, Air Force Global Strike Command

COLONEL SHANE GARNER, USAF
Chief, Test and Training Division, Air Combat Command

MARK S. JERNIGAN
Chief, Aircrew Tactics & Training Division, Headquarters Air Mobility Command

COL GRAHAM, USAF

NAME

NAME

COL DAVIES, USAF

COL GARNER, USAF

MR. JERNIGAN

This panel assembles senior leaders from across multiple Major Commands (MAJCOMs) to delve into the critical challenge of optimizing training to ensure Air Force operational dominance in an increasingly complex and contested global landscape. Recognizing that readiness starts with training, these leaders will provide insights into their respective commands' unique needs and share their vision for leveraging cutting-edge technologies and innovative training methodologies to build a more lethal, agile, and resilient force.

THURSDAY, 4 DECEMBER • 0830 – 1000 • ROOM 330CDGH

PUSH & PULL: SCIENCE & TECHNOLOGY FOR FUTURE TRAINING ENVIRONMENTS

MODERATOR

JIM GUMP, PH.D.
Senior Technical Advisor, Modeling Simulation and Analysis, AFRL and CMSO

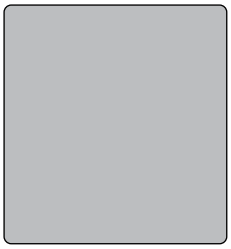
PANELISTS

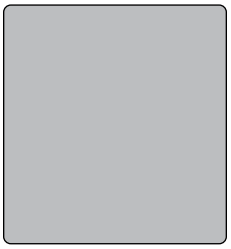
GLENN GUNZELMANN, PH.D.
Warfighter Interactions and Readiness M&S Lead, AFRL

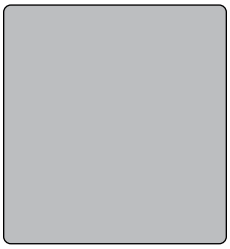
DAVE MALEK
Readiness Product Line Lead, AFRL

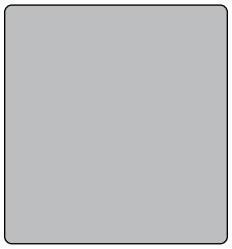
JEROME RAY II
Senior Program Manager, AFSIM Model Management Office, AFRL

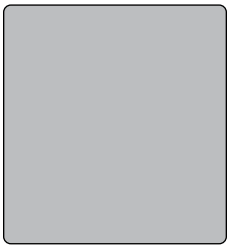
TRACEY S. BOWEN
Principal Physicist, AFRL, Space Vehicles Directorate, Simulation and Analysis Branch


DR. GUMP


DR. GUNZELMANN


MR. MALEK


MR. RAY


MS. BOWEN

This panel emphasizes science and technology efforts at the Air Force Research Laboratory that contribute to Modeling & Simulation capabilities in support of training across the Department of the Air Force. The panel members are leading research efforts at different levels of technology maturity. They will discuss how AFRL is responding to demand signals in this research area and discuss current partnerships and opportunities for collaboration and engagement with other government organizations and industry partners. Specific topics will include the Modeling & Simulation Integration Lab (MSIL), AFSIM, and research portfolios at the 6.2 and 6.3 levels.

THURSDAY, 4 DECEMBER • 1030 – 1200 • ROOM 330EF

FLEET TRAINING WHOLENESS: HOW NAVY TRAINING NEEDS ARE TURNED INTO INDUSTRY SOLUTIONS

MODERATOR

CHRISTOPHER BOYLE
Training Technology, Director, USFFC N72

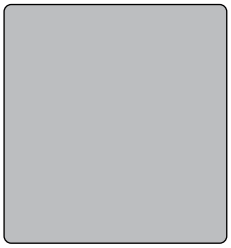
PANELISTS

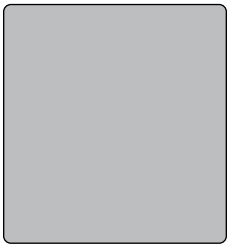
JEFF HURLEY (INVITED)
Deputy CVW/LVC, N98

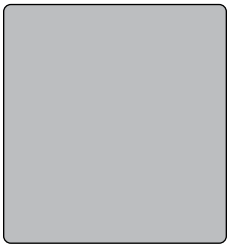
CRAIG FAJARDIN (INVITED)
Training/Manpower, N96

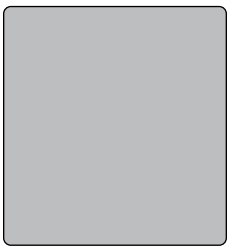
CHRIS TERRY (INVITED)
Fleet Training Ranges, N94

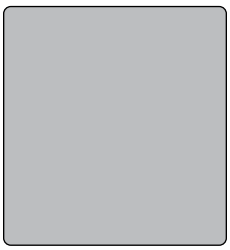
JASON MATTHEWS (INVITED)
Training, N2N6


MR. BOYLE


MR. HURLEY


MR. FAJARDIN


MR. TERRY


MR. MATTHEWS

This event will focus on Fleet Training and how they turn identified training gaps into funded, delivered solutions that deliver Live Virtual Constructive Training to the Navy Warfighter. Participants are experts in the programs and elements of Fleet Training, including representatives from program management, operations, engineering, and range development. The panel will explore how these elements are interconnected and how they collectively contribute to a comprehensive training ecosystem.

MONDAY – THURSDAY, 1 – 4 DECEMBER • EXHIBIT HALL, BOOTH 2285

SERIOUS GAMES SHOWCASE & CHALLENGE

VISIT BOOTH 2285 TO EXPERIENCE BEST IN CLASS SERIOUS LEARNING GAMES!

SGS&C DIRECTOR

JENN McNAMARA
Vice President Strategic Partners and Products, BreakAway Games

COMMITTEE LEADERSHIP

SGS&C INDUSTRY CHAIR
CLIFTON GARNER
SIMETRI

SGS&C GOVERNMENT LEAD
EUGENE PURSEL
USAF, STRATCOM JWAC

MS. McNAMARA

MR. GARNER

MR. PURSEL

In Booth 2285, the Serious Games Showcase and Challenge (SGS&C) provides a casual and interactive showcase of exemplar learning games from businesses, students, and government organizations competing for awards recognizing their achievements. Visit the booth anytime the Exhibit Hall is open to experience exciting PC, XR, and mobile learning games, meet the developers and our organizing committee members, and engage in conversations about applying serious games in your work. Cast your vote for the People's Choice Award by 1800 Wednesday, December 3rd. The People's Choice Award is based on votes from attendees like you. Your I/ITSEC badge includes your ballot.

THURSDAY, 4 DECEMBER • 1030 – 1200 • ROOM 330AB

JOINT ALL-DOMAIN NON-KINETIC TRAINING – CONNECTING LIVE, VIRTUAL AND CONSTRUCTIVE ENVIRONMENTS & RANGES

CREATING A REALISTIC AND EFFECTIVE TRAINING ENVIRONMENT

MODERATOR

LIEUTENANT COLONEL PAUL KUNNAS, USA
Environment Operations Division, Joint Staff J-7

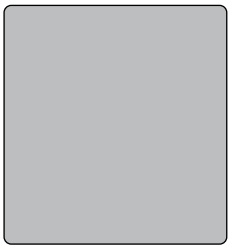
PANELISTS

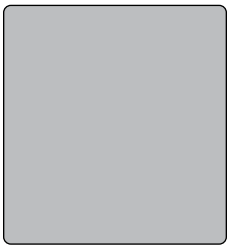
COLONEL TIMOTHY RUSTAD, USA
Chief, Environment Operations Divison, Joint Staff J-7

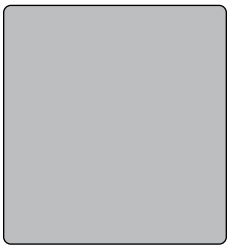
COLONEL GREG PAVLICHKO, USA
Director, U.S. Army National Simulation Center

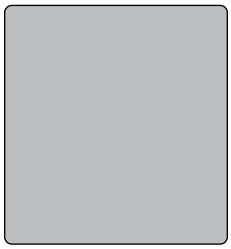
COLONEL MARK MADDEN, USA
Director, U.S. Army Joint Multi-National Simulation Center

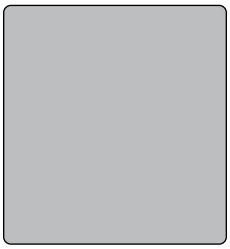
COLONEL STEVE BANKS, USA
Branch Head, NATO ACT M&S


LTC KUNNAS, USA


COL RUSTAD, USA


COL PAVLICHKO, USA


COL MADDEN, USA


COL BANKS, USA

The panel will discuss Joint Range Network objectives; identify non-kinetic trends i.e. sUAS, best practices, and inform COAs for Non-Kinetic Training Integration and Capability Development: Space Cyber EMS Autonomous Systems.

TUESDAY, 2 DECEMBER • 1600 – 1730 • ROOM 330AB

DIGITAL ENVIRONMENTS SUPPORTING DOD M&S, TRAINING, DIGITAL ENGINEERING

MODERATOR

SEAN LITTON
Director, DAF Modeling and Simulation Execution Office, HAF SAF/SA – AFMC AFRL/RS

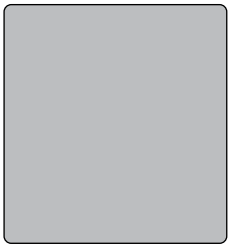
PANELISTS

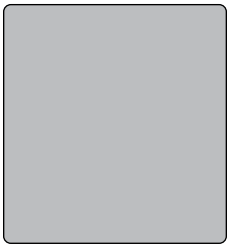
COL HEATH L. McCORMICK, USA
Military Director, AMSO

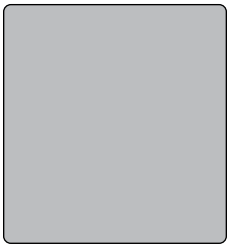
ANDREW BROWNING
Modeling and Simulation Technical Lead, DAF Modeling and Simulation Execution Office, USAF HAF SAF/SA – USAF AFMC AFRL/RS

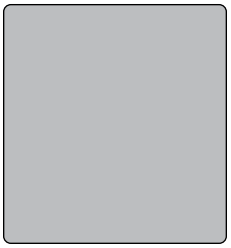
DENNIS W. REED
Director, LIFT/IME, Modeling and Simulation/Live, Virtual, Constructive Lead, Digital Analytics Infrastructure & Technology Advancement Group, NAWCAD

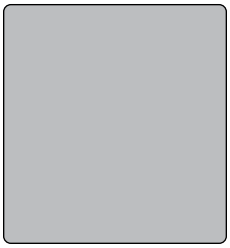
NIKI C. GOERGER, PH.D.
Special Assistant to the Director for the Information Technology Laboratory, U.S. Army Engineer Research and Development Center; DoD HPCMP MS&A Initiative Lead


MR. LITTON


COL McCORMICK, USA


MR. BROWNING


MR. REED


DR. GOERGER

This panel brings together leadership and experts from across the DoD acquisition, research, modeling & simulation, training, and infrastructure communities to discuss current capabilities, roadmap, and challenges associated with DoD Digital Environments. Discussions on current efforts to integrate environments and platforms across the DoD to provide users an available common platform to access tools, data, and compute.

WEDNESDAY, 3 DECEMBER • 0830 – 1000 • ROOM 330EF

ACQUISITION TRANSFORMATION: THE CONVERGENCE OF TEST & TRAINING

AT THE INTERSECTION OF TEST AND TRAINING WE ARE SEEING PREVIOUSLY UNTAPPED EFFICIENCIES AND GAINS FOR OPERATIONAL READINESS

MODERATOR

WHITNEY B. WINCHESTER
Assistant Program Manager
CT2, U.S. Army PEO STRI

PANELISTS

MICHAEL TRUE
Chief Technology Management, Operational Test Command

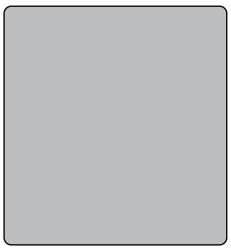
RAPHAEL REYES
Deputy Program Manager, S&T, INDOPACOM T&E Lead, Test Resource Management Center

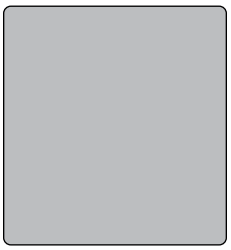
ALLEN CLAYTON
Assistant Program Manager, Deputy/Electronic Warfare Acquisitions Lead, Naval Aviation Training Systems and Ranges Program Office PMA-205 Live Training Environment

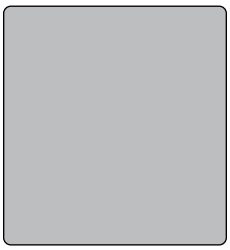
LIEUTENANT COMMANDER MATT KARNY, USN
Ocean Systems Group Lead, In Water Systems, Ocean Systems Group | TRID IPTL, Naval Aviation Training Systems and Ranges Program Office (PMA-205) Live Training Environment

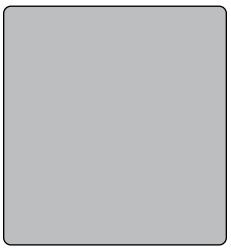
TBD
Air Force

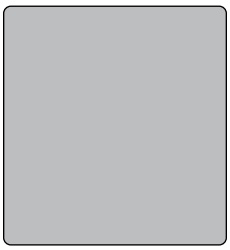
TBD
Space or Air Force


MS. WINCHESTER


MR. TRUE


MR. REYES


MR. CLAYTON


LCDR KARNY, USN

We do not often discuss the connection between the test and evaluation (T&E) and training communities. These are often looked at as two separate domains within the greater scheme of readiness. Over the last couple of years, there has been more discussion and acceptance that many T&E events, especially large-scale, operational test events, are also training events. These large test events such as the ones performed in the Indo-Pacific Combatant Command (INDOPACOM) region allow operators to test and train like they fight. This panel of experts will discuss how these once very separate and specific domains are converging allowing for hands-on, operational test and training, the role these services and lo

WEDNESDAY, 3 DECEMBER • 0830 – 1000 • ROOM 310CD

ARMY LIVE TRAINING – CURRENT & FUTURE

MODERATOR

TBD
Title, Org

PANELISTS

TBD
Title, Org

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Title, Org

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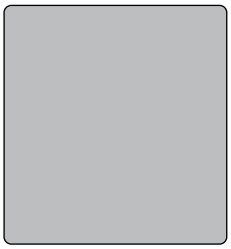
Title, Org



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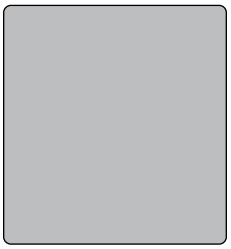

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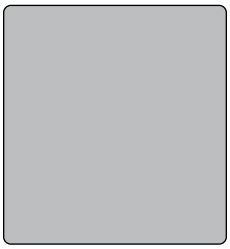

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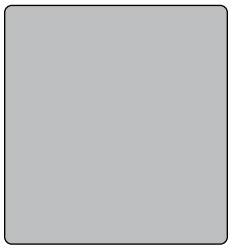

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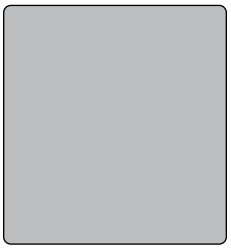

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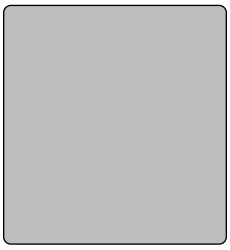


NAME

Provide the Army live training perspective as panel members share information and discuss updates on Army live training – current initiatives, future vision, and alignment to Army modernization. The panel members' discussions and dialogue with the audience will provide valuable information to the training community, so they are best informed toward producing optimal live training solutions for soldiers.

WEDNESDAY, 3 DECEMBER • 1330 – 1500 • ROOM 330AB

HOW OPTIMIZING DIGITAL WARGAMING RESULTS INFLUENCE TRAINING & STRATEGIC INNOVATION FOR MILITARY SERVICE

MODERATOR

LIEUTENANT COLONEL JOSEPH E. TAYLOR, USMC
Program Manager Wargaming Capability, MARCORSYSCOM

PANELISTS

LIEUTENANT COLONEL SCOTTY E. BLACK, PH.D, USMC
Senior Technical Research Analyst, Marine Corps Warfighting Laboratory

MICHAEL P. O'HARA, PH.D.
Chair, War Gaming Department
U.S. Naval War College

COLONEL ARNEL P. DAVID, USA
Director of the Strategic Initiatives Group, Supreme Headquarters Allied Powers Europe (SHAPE)

LTCOL TAYLOR, USMC

LTCOL BLACK, PH.D., USMC

DR. O'HARA

COL DAVID, USA

This session examines how various branches of the military are employing digital wargames as a strategic tool for fostering innovation and enhancing Warfighter readiness in the face of peer/near-peer competition. Attendees will gain insights into the specific methodologies, technologies utilized, and practical applications driving these initiatives, leading to a deeper understanding of how digital wargaming is shaping future operational capabilities. The panel will address the challenges and opportunities presented by integrating digital wargaming into existing training and development programs.

WEDNESDAY, 3 DECEMBER • 1530 – 1700 • ROOM 310AB

APPLICATION OF DATA SCIENCE IN NAVAL LVC TRAINING ENVIRONMENT FOR IMPROVED PERFORMANCE

DATA-DRIVEN LVC: TRAINING SMARTER. WINNING FASTER.

MODERATOR

HEATHER PRIEST, PH.D.
Senior Scientific Technical Manager for LVC Training Solutions, NAWCTSD

PANELISTS

JENNIFER PAGAN
LVC Strategic Planning Manager, ONR; Lead S&T Researcher, NAWCTSD

MICHAEL CHARLTON
Contract Tactics Instructor, EA-18G SME / Integrated Warfare Analyst, NAWDC

CHRISTIAN WINKLE
Senior Data Scientist, ASEC, Inc.

SCOTT COOK
Assistant Program Manager/E-2 SME, ASEC, Inc.

DR. PRIEST

MS. PAGAN

MR. CHARLTON

MR. WINKLE

MR. COOK

The objective of this Special Event Panel is to discuss the significant issues involving data that can benefit from the novel application of science and engineering, including automatic tagging, model development and validation, bandwidth restrictions, latency reduction, data interpretation, interoperability, and analysis. This panel will comprise participants possessing expertise in various facets within Live, Virtual, and Constructive (LVC) for training (LVCt), including Warfighter training instruction, interoperability, human performance and debrief, trend analysis, and test and evaluation (T&E).

THURSDAY, 4 DECEMBER • 0830 – 1000 • ROOM 330AB

COMMON SYNTHETIC ENVIRONMENT FOR NATO MULTI-DOMAIN OPERATIONS

AGILE DELIVERY OF SIMULATION CAPABILITIES FOR NATO MULTI-DOMAIN OPERATIONS. #GOSTANDARDS

MODERATOR

WIM HUISKAMP
Chief Scientist Modelling & Simulation, TNO Defence Research (The Netherlands); Scientific Advisor, NATO M&S Group

PANELISTS

SIMON SKINNER
Product Policy Leader, Thales Training & Simulation (UK); Vice Chair, NATO M&S Group

COLONEL STEPHEN BANKS, USA
Branch Head, Modelling and Simulation Learning Technologies, NATO ACT (USA)

KATHERINE L. MORSE, PH.D.
Principal Research Engineer, Georgia Tech Research Institute (USA); SISO EXCOM Chair

MATT SMITH
Senior Analyst, Simulation, Training and Research Software Team, Defence Science and Technology Laboratory (UK)

NATO OTAN
Modelling and Simulation Group
Neuilly-sur-Seine | France

MR. HUISKAMP

MR. SKINNER

COL BANKS, USA

DR. MORSE

MR. SMITH

Multi-Domain Operations (MDO) represents a pivotal shift in NATO's approach. At its core, MDO refers to the push for NATO to orchestrate military activities across all operating domains and environments. These actions are synchronized with non-military activities.The NATO Modelling and Simulation Group (NMSG) and its partner, the Simulation Interoperability Standards Organization (SISO), have invited representatives from R&D, industry and armed forces to discuss the vision on the use of M&S to address the challenges of MDO in a coalition context. The presenters will provide an overview of current simulation capabilities and ongoing standardization efforts.

WEDNESDAY, 3 DECEMBER • 0830 – 1000 • ROOM 330CDGH

USAF PEO TRAINING: ACQUISITION UPDATE

MODERATOR

RODNEY STEVENS, SES
Air Force Program Executive Officer, Training

PANELISTS

COLONEL RICARDO JAIME, USAF
Senior Materiel Leader, Advanced Training Capabilities Division

COLONEL NICHOLAS FERANEC, USAF
Senior Materiel Leader, Simulators Division

This panel provides an in-depth update on Program Executive Office Training's ongoing initiatives, industry opportunities and future vision for acquiring and delivering next-generation training systems to the Warfighter. Senior leaders and program managers will discuss key modernization efforts within the training acquisition portfolio.

Don't miss the update on JSE!

WEDNESDAY, 3 DECEMBER • 1030 – 1200 • ROOM 330AB

PM TRASYS – ACQUISITION UPDATE

MODERATOR

LIEUTENANT COLONEL DAVID B. BAIN, USMC
Deputy Program Manager, PM TRASYS, MARCORSYSCOM

PANELISTS

RACHAEL GERMANSKY
Product Manager, Range Training Systems, PM TRASYS, MARCORSYSCOM

ELIZABETH TYGART
Product Manager, Synthetic Training Systems, PM TRASYS, MARCORSYSCOM

ADAM EMANUEL
Product Manager Warfighter Training Support, PM TRASYS, MARCORSYSCOM

This session will provide attendees with the latest information on the acquisition strategies and progress for our diverse range of training solutions. The presentation will cover key milestones achieved, upcoming opportunities, and insights into how our advanced simulation technologies are shaping the future of defense training. Attendees will gain a comprehensive understanding of our product roadmap and how we are meeting evolving customer needs across all domains.

WEDNESDAY, 3 DECEMBER • 1530 – 1700 • ROOM 330EF

USSF OPERATIONAL TEST & TRAINING INFRASTRUCTURE ACQUISITION UPDATE

MODERATOR

TBD
Title, Org

PANELISTS

LIEUTENANT COLONEL CURTIS BABBIE, USSF
Physical Test & Training System Program Managers (SPM), SYD 81

LIEUTENANT COLONEL LINDSEY BUCKLE, USSF
SYD 81

LIEUTENANT COLONEL KADE EWERT, USSF
Infrastructure System Program Managers (SPM), SYD 81

LIEUTENANT COLONEL JESSICA MAHONEY, USSF
Readiness System Program Managers (SPM), SYD 81

LIEUTENANT COLONEL SCOTT PEEPLES, USSF
Digital Test & Training System Program Managers (SPM), SYD 81

This Panel delivers a U.S. Space Force (USSF) Operational Test and Training Infrastructure (OTTI) Acquisition Update from the System Program Managers (SPM) responsible for Infrastructure, Physical Test & Training, Readiness, and Digital Test & Training portfolios. Panelists will provide programmatic status on capability development, and integration, outline near-term decision points; and address risks, dependencies, and opportunities for Industry and Government partners.

Key Takeaways: Program Status and Near-Term Opportunities: Current phase, upcoming milestones, and critical path items across Infrastructure, Physical, Readiness, and Digital lines of effort.

Integration and Interoperability Priorities: How OTTI is aligning architectures, data, and interfaces to enable training.

Recommended Participants: O-5/O-6 Command Teams, Senior Enlisted Leaders, and Unit/Delta Operations and Training Leadership. Program Managers, Chief Engineers, Requirements Leads, and Professionals supporting M&S/LVC, ranges, and training systems. Government Civilians and Mission Partners engaged in acquisition planning, fielding, and sustainment. Industry Executives, Capture Leads, and Technical Directors seeking relevant guidance on integration, schedule, and operational value.

THURSDAY, 4 DECEMBER • 0830 – 1000 • ROOM 330EF

NAVY VISION FROM TRAINING SYSTEMS PROGRAM MANAGERS

MODERATOR

MIKE MERRITT
Acquisition Director, NAWCTSD

PANELISTS

CAPTAIN ROB BETTS, USN
Commander, NAWCTSD

DAVID KEMP (INVITED)
Director, RRL, PEO Major Business Systems

CAPTAIN JAMES RORER, USN (INVITED)
PM, F35 Training

CAPTAIN JONATHAN SCHIFFELBEIN, USN (INVITED)
PMA 205

This panel, representing a broad spectrum of programs and capabilities vital to the Navy's training mission, offers a unique perspective. They will delve into the year's most significant program highlights and articulate their strategic vision for the future of Navy training. This is an excellent opportunity to learn directly from key decision-makers and program managers about the evolving landscape of Navy training and how it adapts to meet emerging challenges. The insights shared will be beneficial to anyone involved in or interested in the technology and strategies shaping the future of naval training.

THURSDAY, 4 DECEMBER • 1100 – 1500 • ROOM 330CDGH

ARMY ACQUISITION UPDATE (TSIS UPDATES)

MODERATOR

TBD
Title, Org

PANELISTS

TBD
Title, Org

The U.S. Army Program Executive Office Simulation, Training and Instrumentation (PEO STRI), Training Simulation Industry Symposium (TSIS) updates at I/ITEC will provide the latest information regarding current and future PEO STRI business opportunities. The is an update from the June 2025 TSIS.

TUESDAY, 2 DECEMBER • 1400–1530 • DESTINATION LOUNGE

FUTURE CONCEPTS

MODERATOR AND SPEAKERS

MR. KLEINHAMPLE

MS. SCHAUMANN

DR. RUTHERFORD

MR. WILSON

MR. PATTON, JR.

MS. BURNS

Moderator: Bob Kleinhample, Chief Executive Officer, PioneerSim

Beyond the Coming Cyber War

This session will be a 15-minute call to action: build resilience, run table-top exercises, eliminate single points of failure, and teach our teams (and kids) how to think creatively again. Because if we can't improvise under pressure, we've already lost. The next big thing isn't some futuristic cyber war—it's whether we can keep moving forward when the map is lost, the torches are out, and the dragon's already breathing down our necks.

Speaker: Andrea Schaumann, Director, Federal Engagement, Fortress

The Training Singularity

By 2035, we may reach a "Training Singularity" that could upend MS&T as AI outpaces human cognition and scales exponentially, collapsing today's linear, instructor-centric model. This moderated session examines early signals such as AI agents used in planning, mission orchestration, and adversary roles at machine speed and paints a picture of a 2035 setting where students coordinate with AI in system-integrated environments. We'll explore impacts on doctrine, learning pipelines, and evaluation, highlight AI-driven post-mission debrief could look like through a 2035 scenario, and urge rebuilding frameworks now.

Speakers: Hart Rutherford, Ph.D., Chief Operations Officer, PLEXSYS Interface Products, Inc.; Ethan Wilson, Solution Strategy Analyst, PLEXSYS Interface Products, Inc.; and Brooks Patton, Jr, Founder & CD, Contest Highground, LLC

Convergence, Collaboration, and Commercialization: Shaping the Future of the Modeling, Simulation, and Training (MS&T) Market

In a world where conflict is increasingly digital, immersive, and data-driven, the defense Modeling, Simulation & Training (MS&T) market is undergoing a seismic transformation. Emerging technologies will accelerate convergence across traditionally siloed communities. Geopolitical shifts and surges in international defense spending spotlight the need for tech that boosts interoperability and joint operations against evolving threats. Meanwhile, the rise of new business models and evolving buying behavior stand to change the trajectory of tech commercialization and adoption. Whether you're a defense contractor, tech innovator, or government user or acquisition professional, discover how to position your organization at the forefront of this rapidly evolving landscape.

Speaker: Sam Burns, Director, Aerospace, Defense, & Government Practice, Oliver Wyman

TUESDAY, 2 DECEMBER • 1600–1730 • DESTINATION LOUNGE

FUTURE TRAINING CONCEPTS

MODERATOR AND SPEAKERS

DR. BENNETT

DR. McARDLE

MR. SORRENTI

Moderator: Winston Bennett, Ph.D., Modeling and Simulation Engineer Senior Principal Support, SAIC

The Seven Deadly Sins of Training

The report opens by assessing the changing character of training through a tripartite framework: software, data, and models, all under the rubric of advances in learning science. It then pivots and explores how paradigm shifts in warfighting need to inspire similar paradigm shifts in training, all through seven deadly assumptions about the way we fight that are no longer valid.

1. Training for Degredation Dominance
2. Training for a Lack of Sanctuaries
3. Training for the Integration of AI and Autonomy
4. Training for Contested Logistics
5. Training for Protraction
6. Training for Large Scale Urban Conflict
7. Training for the Simultaneity Challenge (i.e., training for multi-mission and multi-theater challenges)

The report is framed (open and closing) around the large-scale paradigm shifts in training that took place during the Cold War as a model for what needs to occur today. We realized that the way we fought had changed and as a result that inspired large scale shifts in training. We are overdue for a similar shift.

Speaker: Jennifer McArdle, Ph.D., Director, US Operations, Helsing AI

Why Training Robots in Games Could Be the Smartest Idea in Tech

Robotics has long been constrained by slow, costly, and risky real-world training. Teaching a machine to assemble a product, or navigate a disaster zone can take months of painstaking trial and error.

But what if robots could play before they work? By harnessing game engines like Unity, Unreal, and NVIDIA Omniverse, we can now create photorealistic training grounds where robots learn the way children do—through trial, error, and repetition at superhuman speed.

This simulation-first revolution is transforming robotics as profoundly as the shift from analog to digital. From battlefields and rescue operations, leading teams are already using synthetic environments to train smarter, safer, and faster machines.

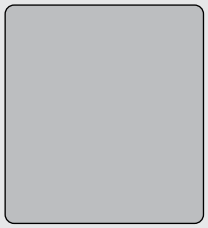
Explore how game technology is giving robots a "childhood," why this shift is driving market growth, and what opportunities—and risks—await those ready to build the next generation of embodied intelligence.

Speaker: Mike Sorrenti, President and Founder, Game Pill, Inc.

TUESDAY, 2 DECEMBER • 1600–1730 • DESTINATION LOUNGE

CDAO PERSPECTIVE

MODERATOR AND SPEAKERS



HON. NORQUIST

DR. MATTY

Moderator: The Hon. David Norquist

Autonomy Has Dependencies: How CDAO is Driving Adoption

Dr. Matty comes as a technical expert with a working background in the federal government. He will discuss the CDAO's direction, how it supports the warfighter, and how it interacts with industry and academia.

Speaker: Douglas Matty, Ph.D., Chief Digital and AI Officer, Department of War

WEDNESDAY, 3 DECEMBER • 1030–1200 • DESTINATION LOUNGE

SPATIAL COMPUTING AND WORLD MODELING

MODERATOR AND SPEAKERS

MR. DE FIGUEIREDO

MR. WOODWARD

MR. McCLENDON

Moderator: Gastao De Figueiredo, VP, GTM Operations, dWave Quantum

The Future of MS&T and AI World Foundation Models

The MS&T visual simulation community has traditionally used standard 3D graphics pipelines in an effort to provide realism, driven by manual content workflows and human-defined shading algorithms. In spite of decades of technological development, and with significant improvements along the way, real-time graphics still fall far short of fully reaching real-world fidelity. As AI rapidly matures, new methods are set to enable significantly higher levels of realism than has ever been possible using traditional graphics methods, both for visible and non-visible spectrum visual simulation applications. This talk will discuss the current state of the art for AI world foundation models and where the technology is likely moving in the next few years.

Speaker: Tim Woodard, Sr. Solutions Architect, NVIDIA

Helping AI Understand Geography to Create a Machine-Readable World

NIANTIC

Effective training requires simulations that are as complex and unpredictable as the real world. Join Brian McClendon, CTO of Niantic Spatial, a pioneer of digital mapping - who first attended I/ITSEC in 1995 for the private launch of SGI's Infinite Reality - for a fireside chat on the role of geospatial AI as a new layer for training and simulation, moderated by an executive from Aechelon Technology (either CEO Nacho Sanz-Pastor or Chief Strategy Officer Javier Castellar). This discussion will dive into how technologies like multi-source scanning (phones, drones, satellites), Gaussian splatting, and Large Geospatial Models are creating a dynamic, 3D visualization of our world that is readable by machines as well as people.

Speakers: Brian McClendon, Niantic Spatial, Inc. and Javier Castellar, Chief Strategy Officer, Aechelon Technology

WEDNESDAY, 3 DECEMBER • 1330–1500 • DESTINATION LOUNGE

HUMAN/MACHINE TEAMING

MODERATOR AND SPEAKERS

DR. STENSRUD

MS. LUM

MR. MEIL

MR. RUTHS

Moderator: Brian Stensrud, Ph.D., CAE USA

Human-Animal Teaming as a Model for Effective Human-AI Robot Teams

Our project focuses on the intersection of human animal teaming and human agent teaming. During my time here at the Air Force Academy working alongside some amazing researchers, we have developed an experimental study that utilizes a triad team of 2 humans and 1 quadruped robot. The task will be for the team to work together to move within an environment, secure any potential threats, and locate a source. This will mimic an urban search and rescue task and the team members will have to work together and utilize each other's distinctive skills and abilities in order to complete the task. The results of this study will be discussed during the ITTSEC talk and help to advance the human-nonhuman model structure we are proposing.

Human-animal teams have long utilized a unique dynamic to accomplish their missions. Unlike human-human teams, human-animal teams have to work together without the benefit of a common natural language so they instead must rely heavily on other communication and environmental cues in order to understand what each wants and needs from the other. The reason that we use animals, especially dogs, is because their sensory abilities (especially their olfaction) are far superior to that of any human counterpart. Similarly, we use robot entities because of their ability to go into places we can't (such as Mars and other space missions), because of their information processing power, amongst other skills. This falls into the notion of "what's next" as I will use the TED style talk format to discuss our specific human-animal team model. Instead of trying to make AI robot team members more human-like, as we often do, we propose to examine and use the human-animal team model to create a more effective human-robot team dynamic.

Speaker: Heather Lum, Arizona State University

Crossing the Valley: Composable Intelligence and the Model Control Plane

Mission environments demand AI models from diverse sources (open-source, proprietary, commercial, and government) to work together seamlessly. But without orchestration, these models remain fragmented, creating brittle, unscalable interfaces between capability and mission. This TEDx style talk introduces "Composable Intelligence," a framework enabled by AI model control planes and model of model orchestration. It provides the connective layer to validate, monitor, secure, and govern heterogeneous models across their lifecycle. The embedding of dynamic lifecycle management and adversarial protection into the infrastructure accelerates the transition from prototype to persistent deployment. This supports bridging the valley of death between experimentation and mission adoption across training and simulation environments.

Speakers: Jay Meil, Chief Data Scientist, SAIC

Advancing Human-Autonomy Collaboration: Continuous Simulation in Defense Operations

The integration of human operators and autonomous systems is becoming increasingly prevalent in modern defense operations. However, there are still significant gaps in operator confidence and planning effectiveness when using these systems. Low confidence and poor deployment can lead to wasted potential or, even worse, serious risks to man and machine. As militaries adopt these technologies, how can the simulation and training community enhance the warfighter's ability to collaborate with these systems and trust in their effectiveness?

In this presentation, we will explore how continuous simulation—integrated at every phase of the warfighter's planning process, from receiving the warning order to conducting mission rehearsals—can bridge this gap. By empowering warfighters to build confidence in autonomous solutions and explore optimal deployment strategies, we can enhance their operational effectiveness.

Join us as we uncover how optimizing human-machine collaboration with simulation can help warfighters win the wars of tomorrow.

Speaker: Weston Ruths, Senior Software Product Manager, Anduril

ANDURIL

WEDNESDAY, 3 DECEMBER • 1530–1700 • DESTINATION LOUNGE

QUANTUM COMPUTING

MODERATOR AND SPEAKER

MR. DE FIGUEIREDO

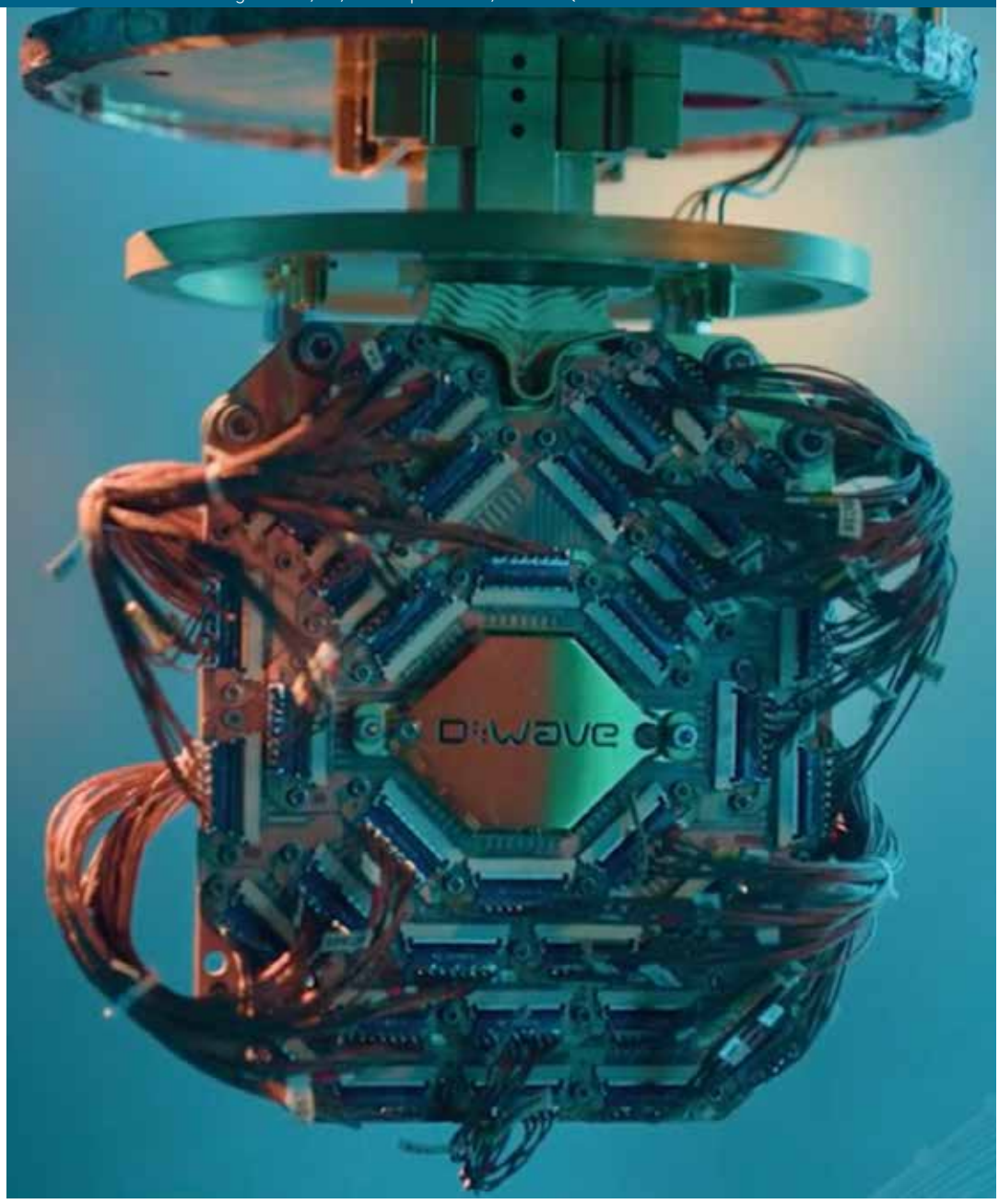
MR. LANTING

Moderator: Gastao De Figueiredo, VP, GTM Operations, dWave Quantum

Applying Quantum Annealing Technology

Quantum computing harnesses quantum dynamics to deliver powerful new computational tools for solving hard problems. In this presentation we will discuss how technologies such as quantum annealing provide breakthrough capability to tackle complex combinatorial optimization problems. This capability can help power large scale simulations and use cases in logistics, personnel scheduling, and enhancing generative AI models. We will discuss exciting customer applications that are made possible by the largest quantum processors in the world. We will also discuss the evolution of this technology and our development roadmap

Speaker: Trevor Lanting, Chief Development Officer, D-Wave Quantum, Inc.



THURSDAY, 4 DECEMBER • 0830–1000 • DESTINATION LOUNGE

WEARABLES AND HUMAN SENSORS

MODERATOR AND SPEAKERS

DR. DUHON

MR. BEY

DR. BRUNI

DR. BAIR

MR. COOLEY

Moderator: Alethea Duhon, Ph.D., Director, Modeling, Simulation, and Training, KBR

Integrating Wearables into Simulator Training for Human Cognitive and Stress Assessment

The cognitive load on our warfighters has increased significantly. With not just more complex environments to handle, our warfighters have more systems, more screens to look at, more information to integrate before a decision can be made. Artificial Intelligence is also not a panacea. If not implemented well, AI can actually further increase the cognitive load of our people.

How do we train the brains of our people better, how do we assess their cognitive growth objectively, and leave it less to chance and subjectivity? How do we help them on work and off work, manage their sleep and stress like a high performance athlete?

In my presentation I will talk about how the Republic of Singapore Air Force is tackling this issue using commercial off the shelf wearables and other modern techniques so that we can screen more accurately, tailor training to individuals, and help them to maximise their own potential. Our market surveys show few vendors offer integrated solutions that match simulators with human performance measures, and hence the need for co-developed solutions.

Speaker: David Bey, Organizational Architect, Royal Singapore Air Force

Cognosomatics: The Rise of Embodied Agents for Human-AI Fusion in 2030 Training Ecosystems

"This talk introduces Cognosomatics, a visionary leap in human-AI teaming where embodied agents serve not as instructors or tools, but as adaptive, biosymbiotic teammates. Designed for the training and operational ecosystems of 2030, cognosomatic agents fuse physiological sensing, cognitive modeling, agentic AI, and robotic augmentation into a closed-loop system that continuously co-evolves with the human. These agents don't just observe performance; they sense stress, predict intent, and act in synchrony with the learner to optimize performance, resilience, and mission readiness across training and operational contexts.

By integrating cutting-edge technologies projected to mature by the end of the decade, such as LLM-driven agentic AI, digital twins of human state, multimodal neurophysiological sensing, and bi-directional human-machine interfaces, cognosomatics transforms training into an embodied, lifelong process of human-machine fusion. In doing so, it offers a scalable, personalized alternative to traditional simulation paradigms, extending adaptive training into live operational augmentation.

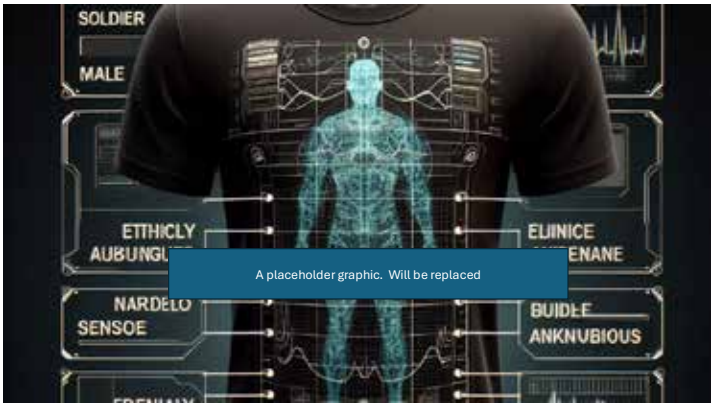
This presentation challenges the I/ITSEC community to envision a future where warfighters do not train alone or with static systems, but with AI teammates who grow, learn, and fight alongside them. The approach directly addresses the demands of multi-domain, high-intensity operations by enabling training that is persistent, personalized, emotionally intelligent, and operationally embedded. Cognosomatics is not a tweak to the status quo; it's a blueprint for the next generation of mission-ready human-machine ecosystems."

Speaker: Sylvain Bruni, Ph.D., Principal Engineer, Aptima

Convergence of Emerging Technologies Enable Real-time Cognitive Performance Feedback

Innovations may materialize from many avenues. This TalX presents how two technologies, EEG sensing via e-textile, and artificial intelligence are both being developed independently to improve their respective domains as well as being integrated together for a more synergistic and novel solution for the warfighter. As our community innovates with emerging technologies, we are gong to have to overcome adoption issues which arise. We will describe some of the cultural adoption issues and the strategies to address these. The warfighter problem being addressed with innovation is research in improving warfighter cognitive performance in real-time.

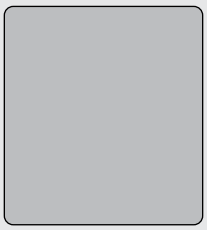
Speaker: Amy Bair, Ph.D., Advisory Board Member, Nuream and Rob Cooley, Chief Executive Officer, Nuream



THURSDAY, 4 DECEMBER • 0830–1000 • DESTINATION LOUNGE

AI FLUENCY INITIATIVE IN HIGHER EDUCATION (THE OHIO STATE UNIVERSITY)

MODERATOR AND SPEAKER



DR. WINER

VADM CARTER, USN (RET.)

VADM GARVIN, USN (RET.)

Moderator: Eliot Winer, Ph.D., Director, VRAC Research Center, Iowa State University

AI in Higher Education

The purpose of this special event is to give our training, simulation and education community perspectives from senior leaders on this very important topic which they can consider as they seek AI implementation initiatives in their organizations to train and educate future warfighters. Some key discussion points will revolve around the following areas:

- What are the major elements of the AI initiative?
- Why do we need to educate future leaders on AI?
- What are the cultural barriers that need to be overcome in implementing or not implementing AI embedded in education?
- Given the near completion of the fall semester, what are some of the lessons learned, pros and cons of the initiative?

Speaker: VADM Ted Carter, USN (Ret.), President, Ohio State University and VADM Pete Garvin, President, National Defense University

INTERNATIONAL PAVILION

ROOM S310E-H

International attendees can meet and connect with counterparts from around the world. Limited private meeting space is available on a first-come, first-served basis to our international participants and may be scheduled at the International Pavilion's Welcome Desk. Additional information about the many international activities throughout I/ITSEC is readily available in the International Pavilion.

International registrants should register at the dedicated international check-in station positioned near the main registration desk in the lower level of the South Concourse. International conference attendees' meeting bags will be available for pick-up at the main registration desk this year.

INTERNATIONAL PAVILION HOURS OF OPERATION

Monday, 1 December	0800 – 1800
Tuesday, 2 December	1200 – 1800
Wednesday, 3 December	0800 – 1500
Thursday, 4 December	0800 – 1500

INTERNATIONAL PAVILIONS

Australia	1961
Canada	1969

PAVILION SPONSOR: A. HAROLD AND ASSOCIATES, LLC

WEDNESDAY, 3 DECEMBER • 1000 – 1130 • INNOVATION SHOWCASE, BOOTH 1995

Best from Around the Globe features the Best Paper awardees of MODSIM World and IT²EC. Each of the winners was selected by a committee and criteria specific to the particular global conference focus and theme. Come hear the award winners offer their outstanding presentations from these prestigious international conferences.

To view session descriptions, please view the Digital Program at **IITSEC.org/Agenda/Agenda-Details.**
The most up-to-date session information is available on the mobile app.

BEST FROM AROUND THE GLOBE

IT²EC 2025 BEST PAPER

ACCELERATING NAVY READINESS WITH MOBILE VIRTUAL REALITY (VR) AND HANDHELD GAMING PC SIMULATIONS IN THE FLEET

Anders Gronstedt, Ph.D., The Gronstedt Group, Denver, CO

AUSTRALASIA SIMULATION CONGRESS 2025 (ASC25) BEST OVERALL PAPER AWARD (AND BEST STUDENT PAPER AWARD)

GAMIFYING TRAFFIC INCIDENT RESPONSE: A SIMULATION-BASED TRAINING MODEL FROM THE DUBAI POLICE ACADEMY

Major Ahmad Alsuwaidi, Dubai Police Academy, Dubai, United Arab Emirates

MODSIM WORLD 2025 BEST PAPER

ENGINEERING MENTAL WELLNESS: A DIGITAL TWIN FOR CHRONIC STRESS MODELING AND REAL-TIME INTERVENTION

Valentina Ezcurra, University of Central Florida, Orlando, FL

ASC25

BEST HEALTH PAPER AWARD

INNOVATION SHOWCASE • 1130-1200

INCORPORATING AI CONVERSATION AGENTS INTO SIMULATION-BASED LEARNING FOR NURSING STUDENTS

Danielle Gradner, University of Technology Sydney (UTS), Australia

ASC25 BEST NON-HEALTH PAPER AWARD

STEM STAGE TBD

SIMULATION-BASED LEARNING — IS IT ONE SIZE FITS ALL? A MODEL FOR DESIGNING IN DIVERSITY OF LEARNERS TO ENGENDER LEARNER INCLUSIVITY

Dr. Amanda Davies, Charles Sturt University, Australia

EXHIBIT HALL

CYBER PAVILION — BOOTH 2369

2025 NTSA CYBER PAVILION at I/ITSEC provides events and engagements with Cyber, Electromagnetic, Wargaming, and Information Warfare leaders, developers and educators. Corporate sponsorship enables these areas:

- **Communication** about opportunities that span Cyberspace and Electromagnetic Warfare operations from the Tactical through Operational and Strategic levels; Integration support for policy makers and staffs, EW/Cyber/SIGINT operations; Information Warfare challenges, understanding about Mis/Dis-Information Campaigns, and Multi- Domain Operations
- **Understanding** of current Defense Department service perspectives: U.S. Army Cyber Command, Army Cyber Center of Excellence, USAF (16th AF IW Command), Navy (U.S. Fleet Cyber Command) and Marines (USMC Force Cyber Command), Coast Guard (USCG Cyber Command); Department of Homeland Security (Cybersecurity and Infrastructure Security Agency CISA), International Partners perspectives
- **Education** about Academic opportunities, studies and workforce development and model & tool development
- **Presentations and Demonstrations** of applications, training, and technology approaches in development or in use to support operational organizations

As the capabilities enabling training and simulation support for cyber, electromagnetic, wargaming and information warfare areas continue to evolve and expand across the U.S. Government and military services, the Cyber Pavilion serves as NTSA's enabling platform at I/ITSEC for professional dialog, networking, cooperation, and discovery of solutions to address the challenges presented by Cyberspace for Information Warfare and Multi-Domain Operations. Events and attendees span U.S. Government, Department of Defense, Department of Homeland Security, International Partner Nations, Industry and Academia. Senior leaders from many organizations will attend and speak at the Pavilion. Sponsorship delivers better understanding of current capabilities and assists in communicating the needs across organizations and services. Support the proven success of the Cyber Pavilion and the pursuit of solutions at I/ITSEC.

NOTABLE ATTENDEES • NETWORKING CONTACTS ALL AT THE CYBER PAVILION:

SPECIAL EVENT – COMMENTS FROM CURRENT AND FORMER OPERATIONAL GENERAL OFFICERS

- An I/ITSEC SPECIAL EVENT: *Cyberspace – Perspectives on Challenges of Future Multi-Domain Operations Panel*

DISCUSSIONS ON CURRENT TOPICS

- Panel on CMMC Impacts and How to Position Your Company for Success
- Mis/Dis Information – Impact on How We Prepare and Execute Conflicts
- AI Impact – LTG(R) Ed Cardon
- Bringing Cyber, Electronic, Information Warfare into M&S
- Cyber Readiness and Training
- And many more topics!

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Exhibit Hall – South Hall • Booth 1995

Presentations within the Innovation Showcase are led by cutting-edge exhibiting companies and government agencies that are knowledgeable on the various subject matter within the M&S Industry. Be sure to stop by one of the 30-minute sessions to hear what is new and exciting in M&S! Check the onsite schedule for any changes or updates to the Innovation Showcase schedule.

The most up-to-date information will be available on the mobile app, website, and onsite during I/ITSEC.

AS OF XX MONTH 2025

MONDAY, 2 DECEMBER	
TUESDAY, 3 DECEMBER	
WEDNESDAY, 4 DECEMBER	
1000 – 1130	Best from Around the Globe Presentations
1145 – 1215	Healthcare Paper Presentations
THURSDAY, 4 DECEMBER	
1300 – 1400	Serious Games Showcase & Challenge Awards

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Aurizn	2087
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Craftsmen Industries	231
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CymSTAR LLC	1466
Dalcomm Tech LLC	233
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Embry-Riddle – Gaetz Aerospace Career Academy	1589
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Engineering & Computer Simulations, Inc.	833
Unreal Engine/Epic Games	1935
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InVeris Training Solutions	1401
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ITI Engineering	301
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