2024 Department of the Air Force
Modeling and Simulation Summit

Training in a Digital World

HOSTED BY:
Department of the Air Force (DAF),
Chief Modeling and Simulation Officer (CMSO),
and Air Education and Training Command (AETC)

7 – 9 May 2024 | San Antonio, TX | DAFMSS.org

ORGANIZED BY: **NTSA**

Welcome!

2024 Department of the Air Force Modeling and Simulation Summit

On behalf of the Department of the Air Force (DAF) Modeling and Simulation (M&S) community, we welcome you to the **2024 Department of the Air Force Modeling and Simulation Summit!**

The purpose of the 2024 DAF M&S Summit is to cultivate a distinguished M&S Community composed of professionals from across the Department of Defense, Industry, Academia, and International Partners to support implementation of the DAF M&S Vision and Mission:

DAF M&S Vision: Marshal collective modeling & simulation capabilities that are compatible and complimentary, and that affordably enable core Department of the Air Force competencies underpinning advanced employment of power in the air, space, and cyber domains.

DAF M&S Mission: Advance warfighting readiness by increasing collective, affordable, interoperable modeling & simulation-enabled capabilities vital to air, space, and cyber power.

The DAF Chief Modeling and Simulation Officer (CMSO) partnered with the Air Education and Training Command (AETC) to bring you this year's theme: **"Training in a Digital World."** The CMSO and AETC team have put together a jam-packed agenda for you over the next few days. Please seize the opportunity to network, discuss current / future M&S activities, challenges, collaboration opportunities, and expand your understanding of how M&S supports our Airmen and Guardians.

We know that you will find this event beneficial. If you have any questions or ideas for how we could improve this event in the future, please reach out to a CMSO member SAF.AQ-CMSO.Modeling-Simulation@us.af.mil.

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

AETC Commander
Lt Gen Brian S. Robinson, USAF
Air Education and Training Command
United States Air Force

Scan QR for updated agenda

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Event Information

Summit Badge	For security purposes, please wear your Summit badge at all times while in the hotel. You will not be permitted to enter the sessions without it. Please remember to remove your badge when leaving the hotel property.
Payments	If you need to settle your registration fee or need a copy of your receipt, please see an NTSA representative at the registration desk.
Exhibits	Be sure to check out each of the exhibits! The exhibitors are located in the Lonestar Ballrooms ABC of the Grand Hyatt. Sufficient time has been allotted throughout the agenda to give you an opportunity to visit the exhibits.
Refreshments	Meals will be provided for Full Conference Academia, Industry, and paid Military/ Government attendees. A list of local dining options will also be available at the registration desk.
Slido	We will be using Slido to submit questions for some sessions. Website: Slido.com Code: DAFMSS24
Online Agenda	Scan the QR code for the most up to date agenda.
Survey & Participant List	You'll receive a survey and list of attendees (name and organization) via email a few days after the conference. Please complete the survey to make the DAF M&S Summit even more successful in the future.
Dress Code	Military: Utility Uniform Civilian: Business Casual

Schedule At A Glance

Tuesday, 7 May

Registration Open
Lonestar Ballroom Foyer
0645 – 1700

Continental Breakfast
Lonestar Ballroom Foyer
0730 – 0825

Exhibit Hall Open
Lonestar Ballrooms ABC
0730 – 1900

General Session
Lonestar Ballrooms DEF
0825 – 1030

Networking Break & Exhibit Hall
Lonestar Ballrooms ABC
1030 – 1045

General Session
Lonestar Ballrooms DEF
1045 – 1145

Lunch & Exhibit Hall
Lonestar Ballrooms ABC & Foyer
1145 – 1300

Briefing Breakouts
See Agenda for Rooms
1300 – 1500

Networking Break & Exhibit Hall
Lonestar Ballrooms ABC
1500 – 1515

Briefing Breakouts
See Agenda for Rooms
1515 – 1715

Opening Networking Reception & Exhibit Hall
Lonestar Ballrooms ABC & Foyer
1715 – 1900

Wednesday, 8 May

Registration Open
Lonestar Ballroom Foyer
0700 – 1700

Continental Breakfast
Lonestar Ballroom Foyer
0730 – 0825

Exhibit Hall Open
Lonestar Ballrooms ABC
0730 – 1700

General Session
Lonestar Ballrooms DEF
0825 – 1030

Networking Break & Exhibit Hall
Lonestar Ballrooms ABC
1030 – 1045

General Session
Lonestar Ballrooms DEF
1045 – 1145

Lunch & Exhibit Hall
Lonestar Ballrooms ABC & Foyer
1145 – 1300

Briefing Breakouts
See Agenda for Rooms
1300 – 1500

Networking Break & Exhibit Hall
Lonestar Ballrooms ABC
1500 – 1515

Briefing Breakouts
See Agenda for Rooms
1515 – 1715

Choose Your Own Adventure
No formal event will be hosted.
1715

Thursday, 9 May

Registration Open
Lonestar Ballroom Foyer
0700 – 1500

Continental Breakfast
Lonestar Ballroom Foyer
0730 – 0825

Exhibit Hall Open
Lonestar Ballrooms ABC
0730 – 1515

General Session
Lonestar Ballrooms DEF
0825 – 1030

Networking Break & Exhibit Hall
Lonestar Ballrooms ABC
1030 – 1045

STEM Tour
Lonestar Ballrooms ABC
1030 – 1300

General Session
Lonestar Ballrooms DEF
1045 – 1145

Lunch & Exhibit Hall
Lonestar Ballrooms ABC & Foyer
1145 – 1300

General Session
Lonestar Ballrooms DEF
1300 – 1500

Briefing Breakouts
See Agenda for Rooms
1300 – 1500

Offsite Classified Sessions
Lackland AFB
1300 – 1515

Networking Break & Exhibit Hall
Lonestar Ballrooms ABC
1500 – 1515

General Session
Lonestar Ballrooms DEF
1515 – 1715

Briefing Breakouts
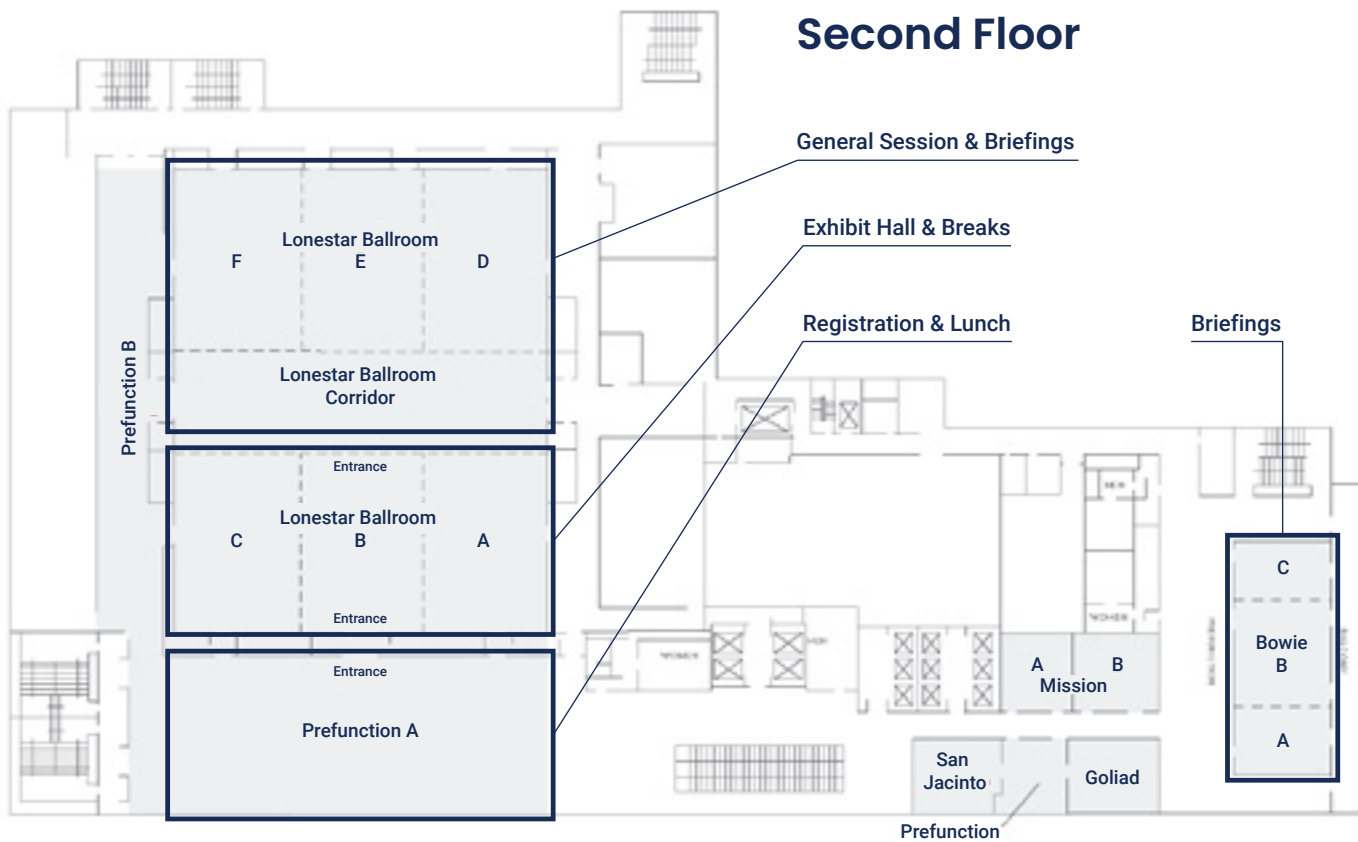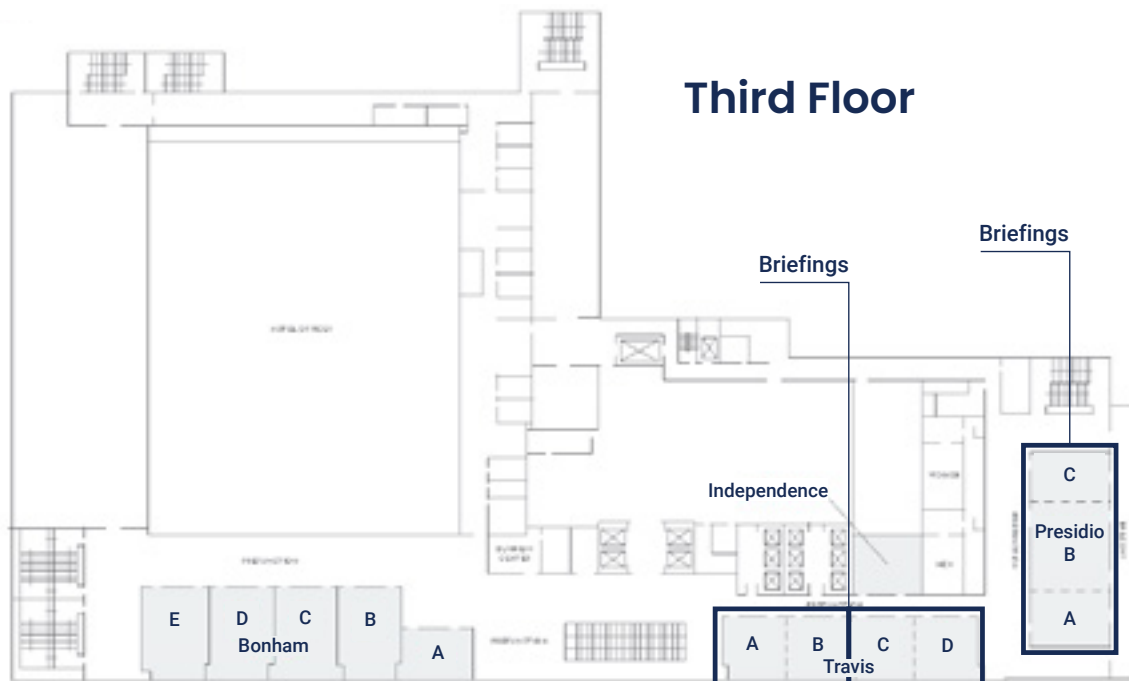See Agenda for Rooms
1515 – 1715

Summit Adjourns
1715

Event Floorplan – Grand Hyatt River Walk

Second Floor

General Session & Briefings

Exhibit Hall & Breaks

Registration & Lunch

Briefings

Prefunction B

Lonestar Ballroom
F   E   D

Lonestar Ballroom Corridor

Entrance
Lonestar Ballroom
C   B   A
Entrance

Entrance
Prefunction A

A Mission B

San Jacinto   Goliad

Prefunction

C
Bowie
B
A

Third Floor

Briefings

Briefings

Independence

E D C B
Bonham
A

A B C D
Travis

C
Presidio
B
A

Leadership & Keynote Biographies

Lt Gen Brian S. Robinson, USAF

Commander, Air Education and Training Command (AETC)

Lt Gen Brian S. Robinson is the Commander, Air Education and Training Command, Joint Base San Antonio-Randolph, TX. He is responsible for the recruitment, training and education of Air and Space Force personnel. His command includes Air Force Recruiting Service, two numbered Air Forces and Air University. The command operates more than 1,400 trainer, fighter and mobility aircraft, 24 wings and 11 installations. It trains more than 293,000 students per year with approximately 60,000 active duty, Reserve, Guard, civilian, and contractor personnel.

Prior to assuming his current role, Lt Gen Robinson served as Deputy Commander, Air Mobility Command, where he was responsible for U.S. Transportation Command's air component, executing the air mobility mission in support of the Joint Force, allies and partners with a fleet of nearly 1,100 aircraft.

Lt Gen Robinson has held staff assignments at Joint Staff, Headquarters Air Force Staff, Air Mobility Command and the U.S. Air Forces Central 609th Combined Air Operations Center. He has commanded at the squadron, wing, operational and global 618th AOC levels.

Lt Gen Robinson earned his Bachelor of Science degree in Computer Science from Philadelphia University in 1987. He received his commission from Air Force Officer Training School in 1987 and attended undergraduate pilot training, later serving as aT-38B first assignment instructor pilot before moving on to a series of operational assignments in the C-130 E/H/J and the C-17A, which represent the full range of tactical and strategic airlift and aerial delivery. Lt Gen Robinson is a weapons officer and command pilot with more than 4,400 hours in airlift and trainer aircraft.

Mr. Richard Tempalski, HQE, DAF

Chief Modeling and Simulation Officer, Chief Modeling and Simulation Office (CMSO)

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

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

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

Scan QR for updated agenda

Wednesday, 8 May | 0830 – 0930 | Lonestar Ballrooms DEF

Ms. Caroline Baxter

Deputy Assistant Secretary of Defense (DASD) for Force Education and Training, USD P&R

Ms. Caroline Baxter was appointed Deputy Assistant Secretary of Defense for Force Education and Training in August 2021. In this role, Baxter serves as the principal senior authority on the development of DoD policy on all issues related to military education and training across the Joint Force. Her responsibilities include professional military education, military and joint training policy, training capability modernization, military and joint exercises policy, language programs, and climate literacy.

Immediately prior to her appointment, Baxter was a Research Fellow at the Eurasia Group Foundation, where she led research on the trajectory of U.S. foreign policy in the Asia-Pacific. Previously, Baxter spent 11 years at the RAND Corporation where she focused on operational strategy, military doctrine and readiness, and defense acquisition. Her work included an analysis of the potential impact of repealing "Don't Ask, Don't Tell," an examination of Army operational roles in the Pacific, and construction of a war game for senior Air Force officers to test operational concepts. She was detailed twice to the Department of Defense

– first to the Air Staff, and then to the Office of the Under Secretary of Defense for Personnel and Readiness, where she served as Special Assistant to the Under Secretary.

Baxter holds a BA with honors in International Relations from the University of St. Andrews, Scotland, and an MA in International Security Policy from the Columbia University School of International and Public Affairs.

Thursday, 9 May | 0830 – 0930 | Lonestar Ballrooms DEF

Mr. Peder Jungck

Vice President and General Manager, Intelligence Solutions, BAE Systems, Inc., Intelligence & Security (I&S)

Mr. Peder Jungck is the Vice President and General Manager of the Intelligence Solutions and Modeling & Simulation Solutions business areas within the Intelligence & Security (I&S) sector of BAE Systems, Inc. The Intelligence Solutions business develops and deploys high-assurance networks, cloud, and software solutions, leveraging artificial intelligence and advanced data science methodologies that facilitate the secure exchange of data across civilian and military intelligence agencies in support of national security. The Modeling & Simulations business, formed in March 2022, following the acquisition of Bohemia Interactive Solutions (BISim), provides market leadership in virtual desktop training, synthetic training, wargaming and operational simulation environments for US and Western aligned militaries.

Prior to these roles, Jungck served as the I&S sector's chief technology officer and chair of BAE Systems, Inc.'s Engineering and Technology Council. In those roles, he led a broad range of engineering and technical teams in instituting innovation strategies to develop and integrate new capabilities, while simultaneously instituting a robust technical employee training and certification initiative to create market discriminators in support of business winning.

Jungck joined BAE Systems in 2013 after serving in several key technology leadership positions for Science Applications International Corporation (SAIC), most recently as the Senior Vice President and Chief Technology Officer of the Cyber Security Group within the National Security Sector. He was also named a Technical Fellow during his tenure. He joined SAIC via the acquisition

of CloudShield Technologies, Inc. which he founded in 2000, and which focused on trusted platforms for cyber security.

Jungck is an entrepreneur and technology leader who pioneered highspeed content-based networking and cyber security systems to meet the needs of government, carriers and large enterprises. He has been a guiding architect at several networking, security, and data intelligence companies where he earned 28 patents and co-authored multiple peer reviewed papers and books.

Jungck received a bachelor of arts degree from Beloit College in mathematics and computer science. He attended Clarkson University for electrical and computer engineering and currently serves on the Dean's Leadership Council for Clarkson University's Coulter School of Engineering.

Agenda

1200 – 1730 **Early Registration Check-In**
LONESTAR BALLROOM FOYER

1715 – 1815 **NTSA Speakers Reception – Invite Only**
LONESTAR BALLROOM FOYER

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TUESDAY, 7 MAY

0645 – 1700 **Registration Open**
LONESTAR BALLROOM FOYER

0730 – 1900 **Exhibit Hall Open**
LONESTAR BALLROOMS ABC

0730 – 0825 **Continental Breakfast**
LONESTAR BALLROOMS FOYER
*Included in paid conference package with meals only

0825 – 0830 **Welcome by San Antonio Mayor & Opening Remarks**
LONESTAR BALLROOMS DEF

The Hon. Ron Nirenberg
Mayor, San Antonio, TX

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

0830 – 0930 **Keynote Speaker**
LONESTAR BALLROOMS DEF

Lt Gen Brian S. Robinson, USAF
Commander, Air Education and Training Command (AETC)

0930 – 1030 **DAF M&S Update**
LONESTAR BALLROOMS DEF

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

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1030 – 1045   Networking Break & Exhibit Time
LONESTAR BALLROOMS ABC

1045 – 1145   Senior Leadership Discussion Panel
LONESTAR BALLROOMS DEF

The United States and its Allies must make substantial progress toward more modern and collaborative military training as Russia's war in Ukraine continues to rattle NATO and the prospect of conflict with China looms in the Pacific. This panel will bring Senior Leaders together to discuss how M&S can enable effective battlefield management training in a multidisciplinary and digitally interconnected world.

Mr. Rowayne A. "Wayne" Schatz, Jr., SES
Director for Studies and Analysis, Office of the Secretary of the Air Force
Moderator

Lt Gen Brian S. Robinson, USAF
Commander, Air Education and Training Command (AETC)

LTG Maria R. Gervais, USA
Deputy Commanding General/Chief of Staff, U.S. Army Training and Doctrine Command (TRADOC)

Brig Gen Linell A. Letendre, USAF
Dean of the Faculty, U.S. Air Force Academy

Dr. Victoria Coleman
Chief Scientist, U.S. Department of the Air Force

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1145 – 1300 **Lunch & Exhibit Time**
LONESTAR BALLROOMS ABC & LONESTAR BALLROOM FOYER

1300 – 1325 **Breakouts**

Training	Emerging Technologies	Training	Simulation	Simulation
LONESTAR BALLROOM DEF	PRESIDIO ABC	BOWIE ABC	TRAVIS AB	TRAVIS CD
Air Education and Training Command Decision Support Analytics	**Beyond the Sandbox: The Challenges of Developing a Multiplayer AR Mission Planning Tool**	**Training the Cyber Warfighter on Mobile Network Core Competencies**	**HPC-Based Modeling and Simulation for DoD System Acquisition**	**Markovian Analyses on Mission-Level Simulations with Many Platforms**
Steve Dillenburger, Ph.D. AETC Analysis and Assessments	**Jake Bolton** Integration Innovation, Inc. (i3)	**Larsen Fisch** CACI International	**David McDaniel, Ph.D.** DoD HPCMP	**David Hillstrom** Infinity Labs, LLC

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1330 – 1355   Breakouts

Emerging Technologies	Emerging Technologies	Training	Simulation	Simulation
LONESTAR BALLROOM DEF	PRESIDIO ABC	BOWIE ABC	TRAVIS AB	TRAVIS CD
Accelerating Design Validation and Release Outcomes Using Model Based System **Vendanth Srinivasan** Amazon Web Services (AWS)	**Beyond Virtual: Building the Next Generation Synthetic Environment** **Matthew Martin** CAE USA	**Incorporating Simulated Cyberspace Effects on Air Force Systems During Training** **Omar Hasan** Dignitas Technologies	**LMI Innovative Digital Engineering as a Service (IDEaaS) & RAPTR Framework** **William Cooper** LMI	**Adding Weather to Wargame Simulation** **Hung Tran** CAE USA

1400 – 1425   Breakouts

Policy, Standards and Data	Emerging Technologies	Training	Simulation	Simulation
LONESTAR BALLROOM DEF	PRESIDIO ABC	BOWIE ABC	TRAVIS AB	TRAVIS CD
Overview of DAF M&S Standards Activities **Jamieson Gump, Ph.D.** AFRL/CMSO	**Using Artificial Intelligence for Identifying At-Risk Students in Learning Record Stores: A Case Study Using Experience API (xAPI)** **Paul Jesukiewicz** PowerTrain	**Innovative Visualization for Information Warfare Training** **Rembrandt Bukowski** CACI	**Predictive Simulation of Cloud-Based Data Systems Using SysML: A Modular Approach** **Daniel Call** USAF/309 SWEG	**Integrating Space Wargaming into the Multi-Domain Laboratory** **Tyler Wright** U.S. Air Force Academy

1430 – 1500 **Breakouts**

Policy, Standards and Data	Cross Cutting Technologies	Training	Emerging Technologies	Simulation
LONESTAR BALLROOM DEF	PRESIDIO ABC	BOWIE ABC	TRAVIS AB	TRAVIS CD
Realizing Cyber Simulation Interoperability with the Cyber Data Exchange Model (DEM) Standard Katherine Morse, Ph.D. JHU/APL	**Leveraging AI to Expand M&S Toward Combined Joint All Domain Operations (CJADO)** Todd Griffith Discovery Machine, Inc.	**Survey of the Changing DAF M&S Environment** William Mott SAIC	**The Big Bang Moment for M&S – Accelerate with DevSecOps** Sameer Qudsi Omni Federal	**General Intelligence for Simulation Tools (GIST) Application** Garrett Partenza KBR

1500 – 1515 **Networking Break & Exhibit Time**
LONESTAR BALLROOMS ABC

1515 – 1540 **Breakouts**

Cross Cutting Technologies	Emerging Technologies	Training	Simulation	Policy, Standards and Data
LONESTAR BALLROOM DEF	PRESIDIO ABC	BOWIE ABC	TRAVIS AB	TRAVIS CD
Model-Based Systems Engineering for Cybersecurity Risk Assessment and Mitigation of Micro-Electronic Components James Leland, IV U.S. Air Force Academy	**Metaclustering: Using Simulation and a Novel Clustering Technique to Inform Test Planning** Benjamin Thengvall OptTek Systems, Inc.	**A-10C VR Flight Training Innovation** Ryan Brown C² Technologies, Inc.	**Realistic Digital Radar Simulation and Its Applications** Kyle Morris Information Systems Laboratories, Inc.	**Distributed Mission Operations Recalibration Study** Coreen Harada, Ed.D. SAIC

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1545 – 1610   Breakouts

Cross Cutting Technologies	Emerging Technologies	Training	Simulation	Policy, Standards and Data
LONESTAR BALLROOM DEF	PRESIDIO ABC	BOWIE ABC	TRAVIS AB	TRAVIS CD
Towards a NATO Distributed Synthetic Training (DST) Capability	**Using Machine Learning to Explore Environmental Degradation of Civil Infrastructure**	**Air Refueling Training With a High-Fidelity Air Refueling System (HiFARS)**	**M-PLANET + AFSIM: High-Fidelity Dynamic Network Emulation for Tactical Scenarios**	**Improving Organizational Efficiency Through the Pensieve Data Management Framework**
William Ford	Timothy Frank	Hung Tran	Rob Chiarelli	Mike Schrand
USAFE-AFAFRICA Warfare Center (UAWC)	U.S. Air Force Academy	CAE USA	CACI	LinQuest Corporation

1615 – 1640   Breakouts

Training	Policy, Standards and Data	Training	Simulation	Training
LONESTAR BALLROOM DEF	PRESIDIO ABC	BOWIE ABC	TRAVIS AB	TRAVIS CD
Establishing an MS&A Capability at the Newest Combatant Command	**Gladiator: A Modular, Open, COTS-Based Common Synthetic Training Environmen**	**FSTD Development: Keeping Up with Aviation's Evolving Automation Landscape**	**Model Based Systems Engineering and Simulation for Robotic Security Applications**	**TwinOps Approach to Digital Training Environments**
Sean Mitcham	Ross Uhler	Samantha Emerson, Ph.D.	William Voelker	Steven Huang
USSPACECOM J8	MAK Technologies	Aptima, Inc.	U.S. Air Force Academy	ManTech International

1645 – 1715   Breakouts

Training	Policy, Standards and Data	Training	Simulation	Training
LONESTAR BALLROOM DEF	PRESIDIO ABC	BOWIE ABC	TRAVIS AB	TRAVIS CD
Optimizing Collaborative Combat Aircraft Playbook Tablet Interface: User-Centered Design in Combat System Development Melissa McLain U.S. Air Force Academy	**Guideline for XR Usage Within the DoD** Marilyn Evans SAIC	**A Multi-Domain Data Integration Framework for Responsive Pilot Training** Eric Haney Lone Star Analysis	**Infrastructure System Reliability Estimation for Decision-Support** Timothy Frank U.S. Air Force Academy	**Enhancing Training Through Linked High Fidelity Weather Effects** Jonathan Yasurek NextGen Federal Systems

1715 – 1900   Opening Networking Reception & Exhibit Hall
LONESTAR BALLROOMS ABC & LONESTAR BALLROOM FOYER

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

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WEDNESDAY, 8 MAY

0700 – 1700   Registration Open
LONESTAR BALLROOM FOYER

0730 – 1700   Exhibit Hall Open
LONESTAR BALLROOMS ABC

0730 – 0825   Continental Breakfast
LONESTAR BALLROOM FOYER
*Included in paid conference package with meals only

0825 – 0830   Opening Remarks
LONESTAR BALLROOMS DEF
Dr. Brian McBee
Portfolio Lead, Model-Based Systems Engineering and Analysis, Space Vehicles Directorate, AFRL

0830 – 0930

Keynote Speaker
LONESTAR BALLROOMS DEF

Ms. Caroline Baxter
Deputy Assistant Secretary of Defense (DASD) for Force Education and Training, USD P&R

0930 – 1030

Training Modernization Discussion Panel
LONESTAR BALLROOMS DEF

The DAF needs to develop Airmen and Guardians with the attributes needed for a high-end fight, reduced bureaucracy, and streamline decision-making processes. The DAF needs to reshape the service's culture and mindset to address strategic competition and design the force required for the future. This panel discussion will address the critical need for DAF training modernization and reorientation to counteract strategic competition in the Air, Space, and Cyber domains.

Brig Gen Randy P. Oakland, USAF
Director of Operations and Communications, Air Education and Training Command (AETC)
Moderator

Ms. Caroline Baxter
Deputy Assistant Secretary of Defense (DASD) for Force Education and Training, USD P&R

Ms. Lea T. Kirkwood, SES
Program Executive Officer and Director for the Agile Combat Support Directorate, Air Force Life Cycle Management Center (AFLCMC)

Dr. Wendy D. Walsh
Chief Learning Officer, Air Education and Training Command (AETC)

Mr. Rahul C. Thakkar
President, Bohemia Interactive Simulations

Mr. Len Granowetter
Chief Technical Officer and Vice President, Engineering, MAK Technologies, Inc.

1030 – 1045

Networking Break & Exhibit Hall
LONESTAR BALLROOMS ABC

1045 – 1145

NCO Panel
LONESTAR BALLROOMS DEF

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

SMSgt Patrick D. Kerney, USAF
Senior Enlisted Leader, Learning Services Division, Directorate Operations and Communications, Air Education and Training Command (AETC)
Moderator

MSgt Jared Rice, USAF
Innovation Cell Lead, 362nd Training Squadron

MSgt Daniel Sirias, USSF
Superintendent for Space Mission Assurance, USSF

TSgt Charles Langdon, USSF
USSF/STARCOM/4 TES

TSgt Michael J. Meyer, USAF
Digital Integration Chief, Digital Integration Office, 82 TRW

TSgt David Shepherd, USAF
AMC Operational Liaison, 367th Training Support Squadron (TRSS)

1145 – 1300

Lunch & Exhibit Hall
LONESTAR BALLROOMS ABC & LONESTAR BALLROOM FOYER

1300 – 1325

Breakouts

Emerging Technologies	Emerging Technologies	Simulation	Cross Cutting Technologies
LONESTAR BALLROOM DEF	PRESIDIO ABC	BOWIE ABC	TRAVIS AB
Creating More Realistic C2 and Communications for M&S	**Mission Decision Making in Healthcare and What We Can Apply to the Military**	**Digital Twins for Test and Measurement**	**DAF M&S Ecosystem**
John LaCreta	Richard Threlkeld	Garry Garrett	Jim Sturgeon
Advanced Planning & Autonomous C2 Systems Air Force Research Laboratory, Information Directorate AFRL/RISD	Axiom AI	Testeract	LinQuest Corporation

1330 – 1355   Breakouts

Emerging Technologies	Emerging Technologies	Simulation	Cross Cutting Technologies
LONESTAR BALLROOM DEF	PRESIDIO ABC	BOWIE ABC	TRAVIS AB
A Design Optimization Approach Using Simulation-Enabled MBSE Towards Cloud-Based Data Mesh Systems **Thomas Booth** USAF/309 SWEG	**Transforming Human-Machine Teaming Into an Augmented Enterprise** **Nathan Jones** Problem Solutions	**ADAPT: System of Systems Analysis of Multi-Domain Kill Chains for JADC2** **Stephen Jameson** BAE Systems Intelligence and Security	*CANCELED:* **Using Simulation in Designing for Space** **Daniel Winton** Aerospace Corporation

1400 – 1425   Breakouts

Simulation	Emerging Technologies	Simulation	Cross Cutting Technologies
LONESTAR BALLROOM DEF	PRESIDIO ABC	BOWIE ABC	TRAVIS AB
Digital Engineering Tool Selection and SysML v2 Transition Guidance **Josue Ramos Abreu** OUSD R&E/SAIC	**Pre-Modeling Validation – Experiences Applying AI to Predict Model Value for the Air Force** **Kyle Rice** Virtualitics	**Tiny Bubbles: Highly Composable Cloud Architecture for the Betterment of Modeling and Simulation** **Matthew Martin** CAE USA	**Using Data-Centric Communications Security to Enhance Real-Time Classified Information Exchange in Joint Simulations** **Paul Pazandak** Real-Time Innovations (RTI)

1430 – 1500   Breakouts

Simulation	Emerging Technologies	Simulation	Cross Cutting Technologies
LONESTAR BALLROOM DEF	PRESIDIO ABC	BOWIE ABC	TRAVIS AB
MSIL Overview **Therese Nyholm** U.S. Air Force	**Augmented Reality Spectrum Visualization** **Suzanne Borders** BadVR, Inc.	**Applications of AI Within Military Modeling and Simulation** **Gary DeYoung** Battlespace Simulations, Inc.	**Merging the Virtual and Physical World Through Actual and 3D Printed Objects for Training** **Jonathan Diemunsch** Air Force Research Laboratory

1500 – 1515   Networking Break & Exhibit Hall
LONESTAR BALLROOMS ABC

1515 – 1540   Breakouts

Simulation	Training	Simulation	Emerging Technologies
LONESTAR BALLROOM DEF	PRESIDIO ABC	BOWIE ABC	TRAVIS AB
Simulating a Battle Network Using Digital Threads from SysML Models	**An M&S Application for AOC Battlestaff Testing, Training, and Analysis**	**Live, Virtual, and Constructive Threat Scene Generation for Defensive System Life Cycle**	**Coupled Simulations for Real-Time Wargaming**
Jackson Lyons Strategic Technology Consulting (STC)	**Michael Medellin** Radius Method	**Peter Grossman** Axient-SEG	**H Parunak, Ph.D.** Parallax Advanced Research **Nick Marquart** Infinity Labs, LLC

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- Additional exposure at I/ITSEC

Regular

- $1,250 to $3,750 in dues (depending on # of employees involved in training and/or M&S)
- Second round of booth space selection (in early to mid-February)
- 5% discount on booth space for I/ITSEC (Maximum discount = dues amount paid)

Associate

- $500 in dues; designed for smaller companies
- Third round of booth space selection (in late February)
- No discount on booth space for I/ITSEC

All corporate members of NTSA receive these core benefits:

- Reduced registration fees for all employees for all NTSA & NDIA events
- Member listing with hyperlink on the NTSA website
- NTSA's monthly e-newsletters
- National Defense, NDIA's award-winning magazine
- Opportunity to participate in various NTSA and I/ITSEC initiatives

VISIT NTSA.ORG/MEMBERSHIP, CONTACT CAROL DWYER AT CDWYER@NTSA.ORG

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1545 – 1610   Breakouts

Policy, Standards and Data	Training	Simulation	Emerging Technologies
LONESTAR BALLROOM DEF	PRESIDIO ABC	BOWIE ABC	TRAVIS AB
Linking Modeling & Simulation Tools to Reference Architectures (Model-Based Catalog)	**Building Modeling & Simulation (M&S) Foundations for the Modern Learner**	**Integration and Application of Customized, Increased Fidelity Modeling Components within AFSIM Mission-Level Simulations**	**Interfacing Bio-Intelligence and Prior Probabilities for Search and Rescue**
Brandon Taylor Air Force Institute of Technology	Anne Little, Ph.D. SAIC	Joseph Mazzocco Northrop Grumman	Carrie Doyle Infinity Labs, LLC

1615 – 1640   Breakouts

Training	Training	Simulation	Emerging Technologies
LONESTAR BALLROOM DEF	PRESIDIO ABC	BOWIE ABC	TRAVIS AB
Swarm: Bringing High Fidelity Physics Simulation to Space Operational Training	**AI Voice Enabled Operations**	**The Impact of Latency on Fifth Generation Simulators**	**Evolution and Swarm Intelligence Biomimicry for Collaborative Munitions**
Jonathan Lowe Ansys Government Initiatives (AGI)	John Kohut GALT Aerospace	Clay Percle SAIC	Jonathan Thompson, Ph.D. Infinity Labs, LLC

1645 – 1715   **Breakouts**

Training	Training	Simulation	Emerging Technologies
LONESTAR BALLROOM DEF	PRESIDIO ABC	BOWIE ABC	TRAVIS AB
Reducing Subjectivity for Simulation-Based Pilot Training	*CANCELED:* **Neural Activity Mapping Flight Task Performance**	**AFSERS / MUSE Training Available Anywhere from The Cloud**	**Modeling and Simulation in the World of Intelligent Sensor Networks**
Audrey Zlatkin, Ph.D. Design Interactive	**Christina Parker, Ed.D.** U.S. Air Force Special Operations Command, A7	**Andy Warzon** Trek10, Inc.	**Philip Lamoureux** CACI

1715   **Choose Your Own Adventure**

While attending DAFMSS 2024, show your physical conference badge to participating **"Show Your Badge"** establishments during the dates of the event to take advantage of discounted offers! **San Antonio** offers many sites and attractions with discounts for government and military. No formal event will be hosted. Visit DAFMSS.org/Conference-Agenda for details.

THURSDAY, 9 MAY

0700 – 1500   **Registration Open**
LONESTAR BALLROOM FOYER

0730 – 1515   **Exhibit Hall Open**
LONESTAR BALLROOMS ABC

0730 – 0825   **Continental Breakfast**
LONESTAR BALLROOM FOYER
*Included in paid conference package with meals only

0825 – 0830   **Opening Remarks**
LONESTAR BALLROOMS DEF

Mr. Christopher Sharpe
Senior Program Manager for Force Development, Air Education and Training Command (AETC)

0830 – 0930   **Keynote Speaker**
LONESTAR BALLROOMS DEF

Mr. Peder Jungck
Vice President and General Manager, Intelligence Solutions, BAE Systems

0930 – 1030

Government/Industry Partnership Panel
LONESTAR BALLROOMS DEF

Due to the increasing availability of data and wider use of analytics, there is an increased reliance on modeling and simulation. While industry can rapidly leverage the tremendous advancements in M&S technology, the government isn't as agile. This panel will be a forum to discuss effective strategies on how government and industry leaders can collaborate to rapidly deploy tools, data, and services across the DAF M&S Enterprise.

Brig Gen Joseph Kunkel, USAF
Special Assistant to the Chief of Staff of the Air Force, Operational Imperative Integration
Moderator

Ms. Michelle Busbee, SES
Technical Advisor for Air and Cyberspace Intelligence, NASIC

BRIG Damian Hill
Director General Joint Collective Training Branch (J7), Joint Operations Command, Australian Department of Defence

Col Sean Brammer-Hogan, USAF
Senior Advisor, Business Operations, Air Education and Training Command (AETC)

Mr. Robert Franceschini
Chief Technology Officer (CTO), National Security Sector, Leidos

Mr. Peder Jungck
Vice President and General Manager, Intelligence Solutions, BAE Systems, Inc. Intelligence & Security (I&S)

1030 – 1045

Networking Break & Exhibit Hall
LONESTAR BALLROOMS ABC

1030 – 1300

STEM Tour
LONESTAR BALLROOMS ABC

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

NTSA Scholarship

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

Gwilym Couch
Human Factors, Texas A&M Univeristy

1045 – 1145

Medical M&S Innovations Panel
LONESTAR BALLROOMS DEF

Medical Simulation shows great potential in educating and training future medical practitioners in combat scenarios, garrison care, and humanitarian missions. This panel will discuss new innovative technologies and currents challenges in the field of medical modeling and simulation.

Maj Gen Thomas W. Harrell, USAF
Director, Defense Health Network Central; Commander, 59th Medical Wing
Moderator

Mr. Ruben Garza
Chief of the Defense Medical Modeling and Simulation Office (DMMSO), Defense Health Agency, Education and Training (J7) Directorate

Dr. Tanisha Hammill
Chief Scientist, The Office of the Air Force Surgeon General

Mr. Joe Ruisi
Deputy Chief/Administrator, Medical Modernization Division, Air Force Medical Modeling and Simulation Training (AFMMAST) Program, Headquarters, Air Education and Training Command (AETC)

Ms. Jennifer Winner
Senior Research Psychologist, Warfighter Readiness Research Division (711th HPW/RHA), Air Force Research Laboratory (AFRL)

1145 – 1300

Lunch & Exhibit Hall
LONESTAR BALLROOMS ABC & LONESTAR BALLROOM FOYER

1300 – 1500

DoD M&S Enablers
LONESTAR BALLROOMS DEF

The DAF Modeling, Simulation, and Analysis community needs an integrated collaborative suite of capabilities for Airman and Guardians to manage Software, Knowledge, Tools, Data, Compute Resources, and Training. This panel will provide an overview of capabilities from across the DoD to enable infrastructure, collaborative tools, knowledge management, and capability development. Presentations by DAF and DoD MS&A capability providers to include M&S Gateway overview, Lift Platform (US Navy), Army M&S, DoD HPC overview, AETC's ITP, and DAF DPaaS - LaunchPad.

Mr. Sean Litton
Director, DAF Chief Modeling and Simulation Office (CMSO) - WPAFB
Air Force Enterprise Modeling, Simulation, and Analysis-SDPE
Moderator

Mr. James "Fish" Sturgeon
Director, LinQuest Corporation

Mr. Dennis Reed
Director, Leveraging Innovations, Frameworks and Technologies (LIFT)/Integrated Modeling Environment (IME)

COL Heath L. McCormick, USA
Military Director, U.S. Army Modeling and Simulation Office (AMSO)

Dr. Niki C. Goerger
Special Assistant to the Information Technology Laboratory Director, U.S. Army Engineer Research and Development Center (ERDC)

Mr. Richard Robledo
ITP Program Manager, AETC/A3GT

Mr. Ryan McNeal
LaunchPad Project Lead, USAF Headquarters, Air Force Materiel Command (HQAFMC)

1300 – 1515 **Offsite Classified Sessions**
LACKLAND AFB

1300 – 1325 Breakouts

Cross Cutting Technologies	Simulation	Emerging Technologies
PRESIDIO ABC	BOWIE ABC	TRAVIS AB
Humanizing Synthetic Interfaces	**Corporate Model Analyze Continuous Integration in AFSIM**	**Enhancing Autonomous System Testing with Machine Learning**
Brett Gordeau Invisible Arts	Derek Hesser AFRL/RQSA	E. Michael Bearss, Ph.D., CMSP Trideum Corporation

1330 – 1355 Breakouts

Emerging Technologies	Simulation	Emerging Technologies
PRESIDIO ABC	BOWIE ABC	TRAVIS AB
AI to Improve Operations Analysis Modeling and Simulation and Vice-Versa	**Using SysML v2 in the Full Spectrum Survivability Tool**	**Cybersickness: Causes and Consequences**
Jennifer Sierchio BAE Systems	John Crews Applied Research Associates	Douglas Gill FlightSafety International

Scan QR for updated agenda

1400 – 1425 ## Breakouts

Cross Cutting Technologies	Emerging Technologies	Emerging Technologies
PRESIDIO ABC	BOWIE ABC	TRAVIS AB
Virtual Reality Clinical Simulation for High-Fidelity AE/CCATT Operational Training	**Rapid Model Development (RMD) Project**	**Bayesian Inference for Credible Modeling, Simulation, and Analysis**
Cheryl Lockhart, DNP SimX	**Mike Schrand** LinQuest Corporation	**Terril Hurst, Ph.D.** Raytheon

1430 – 1500 ## Breakouts

Cross Cutting Technologies	Simulation	Emerging Technologies
PRESIDIO ABC	BOWIE ABC	TRAVIS AB
Advancing Military Medical Training Through Civilian-Military Simulation Relationships	**COMBAT**	**Rapid Excursion Analysis – New Use-Cases in Campaign Analysis**
Adam Hohman 934th ASTS/934th Airlift Wingr	**Anthony Hughes, Ph.D.** Booz Allen Hamilton	**David Quick** LinQuest Corporation

1500 – 1515 ## Networking Break & Exhibit Hall
LONESTAR BALLROOMS ABC

1515 – 1715 ## DoD M&S Enablers Panel
LONESTAR BALLROOMS DEF

Topics of discussion are integration and interoperability of enablers across the DoD including topics in Data, Digital Material Management, Training, Compute, Tools, and infrastructure. Moderated audience questions. Discussion will focus on current pain points and effective solutions in a digitally connected world to support Enterprise MS&A.

Mr. Sean Litton
Director, DAF Chief Modeling and Simulation Office (CMSO) - WPAFB
Air Force Enterprise Modeling, Simulation, and Analysis-SDPE
Moderator

Mr. James "Fish" Sturgeon
Director, LinQuest Corporation

Mr. Dennis Reed
Director, Leveraging Innovations, Frameworks and Technologies (LIFT)/Integrated Modeling Environment (IME)

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Dr. Niki C. Goerger
Special Assistant to the Information Technology Laboratory Director, U.S. Army Engineer Research and Development Center (ERDC)

Dr. David Stargel
Technical Director, Air Force Agency for Modeling and Simulation (AFAMS)

Mr. Ryan McNeal
LaunchPad Project Lead, USAF Headquarters, Air Force Materiel Command (HQAFMC)

1515 – 1540   **Breakouts**

Policy, Standards and Data	Simulation	Emerging Technologies
PRESIDIO ABC	BOWIE ABC	TRAVIS AB
Using Modular Open Systems Approach (MOSA) to Address the Maintainability of the Aircraft Survival Equipment (ASE) Simulation Software	**Using SysML to Accelerate Modeling & Simulation System Testing**	**Design Strategies and Best-Practices for Advancing M&S Ecosystems with AI via Microservice Architecture**
Hung Tran CAE USA	**Jeremy Jackson** Northrop Grumman	**Charles Newton** Soar Technology, LLC

1545 – 1610   **Breakouts**

Policy, Standards, and Data	Training	Emerging Technologies
PRESIDIO ABC	BOWIE ABC	TRAVIS AB
Enabling the Digital Thread to Track Authoritative Sources Within a Knowledge Management Hub	**Disaster Augmentation: Invisible Threat Training with Augmented Reality**	**Data-Driven Transformation Begins with Composability**
Victoria Claypoole, Ph.D. Dynepic, Inc.	**Brian Flowers** Aptima, Inc.	**Sonia von der Lippe** FuturaSage LLC

1615 – 1640   **Breakouts**

Policy, Standards and Data	Training
PRESIDIO ABC	BOWIE ABC
Distributed Simulation Interoperability Standards	*CANCELED:* **Simulation of Laser Dazzle and Laser Eye Protection Effects in Virtual Reality**
Damon Curry Pitch Technologies	**Jake McKenna** SAIC

1645 – 1715   **Breakouts**

Training	Training
PRESIDIO ABC	BOWIE ABC
Deploying Accessible XR Applications that Digitally Transform Training	**Lessons Learned Developing an XR Cross-Platform Spatial Anchoring System**
JoAnn Archer Design Interactive	**Jared Benedict** Integration Innovation, Inc. (i3)

1715   **Summit Adjourns**

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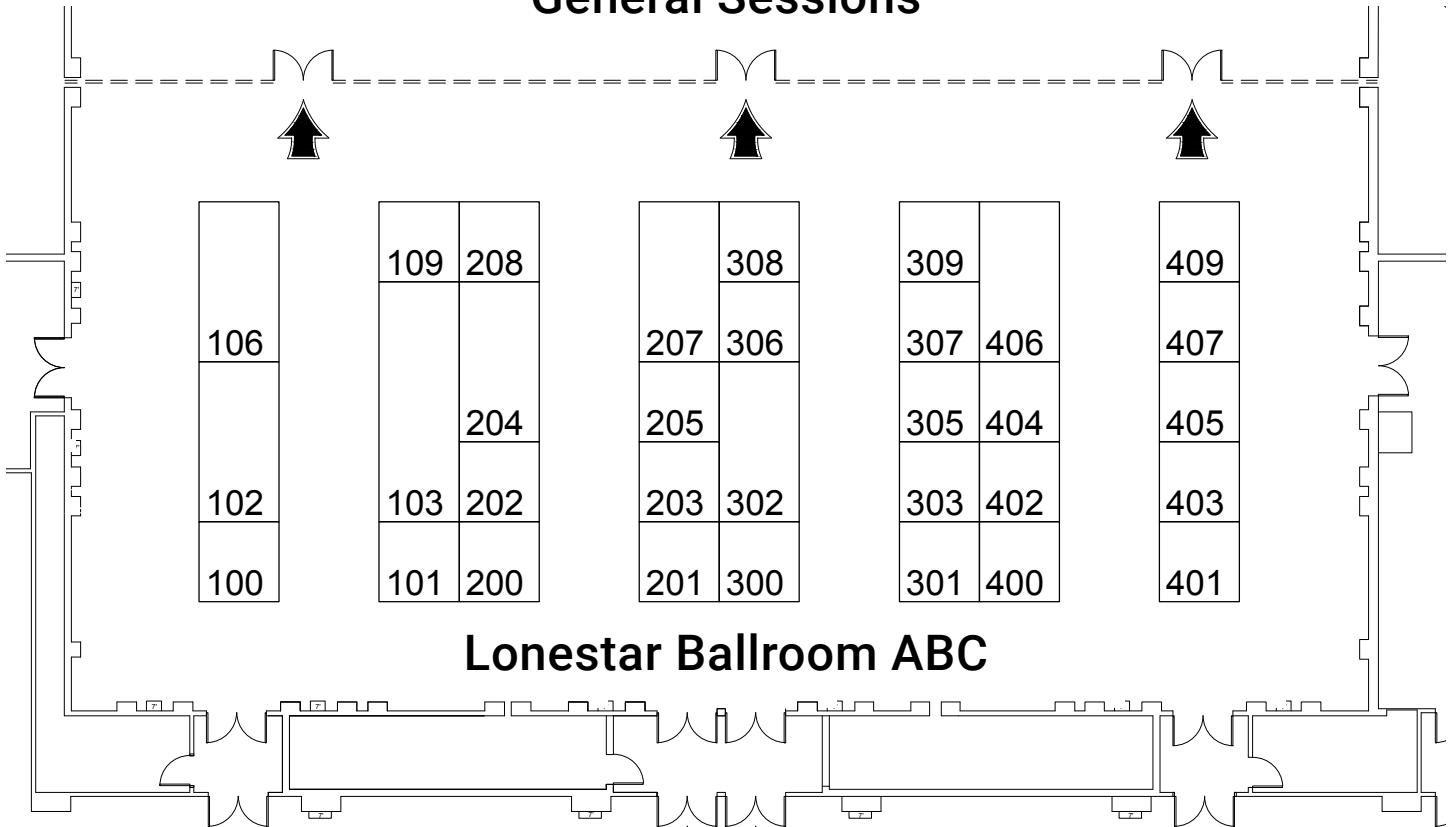
Requirements include meeting the education and work experience criteria, professional letters of recommendation, and successful completion of an online examination.

Exhibitors by Company

General Sessions

106	109 208	308	309	409
	204	207 306	307 406	407
		205	305 404	405
102	103 202	203 302	303 402	403
100	101 200	201 300	301 400	401

Lonestar Ballroom ABC

ENTRANCE

Registration

Scan QR for updated agenda

Sponsor and Exhibitor Descriptions

AIC Inc. — 100

AIC is a global leader in delivering complete storage system solutions, boasting over 28 years of experience in the storage and server industry. Committed to innovation and deploying the latest cutting-edge technologies, AIC designs, manufactures, and builds high-performance, quality products that are flexible, scalable, and configurable to meet any standard or custom requirement. Our robust in-house design, manufacturing, and validation capabilities, complemented by our broad expertise in mechanical, electronic, and system-level engineering, solidify AIC's reputation as the definitive source for integrated system solutions.

AIC has obtained international quality certifications and strives to provide worldwide comprehensive services to meet customers' business needs. Headquartered in Taiwan, AIC has offices and operations throughout the United States, Asia and Europe. For more information, please visit our website at www.aicipc.com.

ATP Gov — 309

We are a leading IT government contractor with over two decades of experience. We have a proven track record of delivering secure and reliable IT solutions to our clients. We are committed to protecting our nation's critical infrastructure and keeping our citizens safe. atpgov.com

BadVR, Inc. — 205

NTSA Corporate Member

BadVR is a woman-owned small business based in Pacoima, CA that builds immersive (virtual and augmented reality) workspace software for enterprise and government organization to increase the speed and quality of data-driven decisions. This is done through a next-generation AR/VR user interface that enables users to - quite literally - step inside their data. The 20-person team has a diverse background spanning psychology, human-computer interaction, AI/ML, and neuroscience, with a patent portfolio covering visualization, spatialization, and analytics. The company has a SBIR lineage, previously receiving grant funding from the National Science Foundation, NOAA, and NIST. BadVR is passionate about making the discovery of data insights faster, easier, and more universally accessible to all. www.badvr.com

BAE Systems

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At BAE Systems, our dedication shows in everything we create and deliver to support our customers' missions of today and tomorrow from the depths of the oceans, to the far reaches of space. Our skilled people are providing world-class capabilities across air, land, maritime, space and cyber domains every day. As a proven partner with a rich legacy of innovation, we are investing and collaborating to develop ground-breaking inventions and discriminating technologies to defend our national security, protect our men and women in uniform, and contribute to the prosperity and sustainability of our local communities, our planet, and beyond. www.baesystems.com/en-us

Barco

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SPONSOR

Barco, headquartered in Kortrijk (Belgium), is a global company leading in visualization, networking, and collaboration technology. Its innovative solutions drive advancements in the healthcare, enterprise, and entertainment markets.

The Entertainment business unit offers solutions tailored to the specific needs of large venues, live events, themed entertainment (museums, theme parks, digital immersive art installations, projection mapping, etc.) and simulation applications: projection, image processing and related services. www.barco.com

Battlespace Simulations, Inc. — 302

NTSA Corporate Member
SPONSOR

BSI's flagship products, MACE and ARMOR, are designed to simulate multi-domain operations (MDO) against near-peer adversaries. MACE and ARMOR are unique in the marketplace; conflict is often determined by what is not seen (Lasers, Radars, IR Signatures, Countermeasures, Communications etc.). BSI's approach is to simulate the entire battlespace, seen and unseen, and has been providing industry leading simulation solutions in Modeling, Simulation, and Analysis (MS&A) to the US DoD, Allied Partners, and Commercial Industry since 2006. Don't settle for only part of the Battlespace! www.bssim.com

BILT Incorporated 106

NTSA Corporate Member

BILT provides 3D Intelligent Instructions, creating and delivering interactive content for iOS and Android, and now turnkey guided work instructions for visionOS. The award-winning platform revolutionizes professional training and operational enablement. BILT is accessible, sustainable, and efficient.
biltapp.com/government/

BMC Software, Inc 400

BMC works with 86% of the Forbes Global 50 and customers and partners around the world to create their future. With our history of innovation, industry-leading automation, operations, and service management solutions, combined with unmatched flexibility, we help organizations free up time and space to become an Autonomous Digital Enterprise that conquers the opportunities ahead. We are proud to have earned recognition as an overall leader in the Enterprise Management Associates (EMA) Radar Report for Workload Automation for six years in a row, a leader in The Forrester Wave™: Process-Centric AI For IT Operations (AIOps), Q2 2023 report, and a leader in the 2023 GigaOm Radar for IT Service Management (ITSM) report. Our future-focused portfolio helps drive business success with AI-enabled solutions for automation, optimization, performance, compliance, and service management, covering everything from mainframe to multi-cloud. www.bnc.com/federal

Capgemini

SPONSOR

Launched in 2002, Capgemini Government Solutions (CGS) is a U.S. company headquartered in McLean, Virginia. CGS delivers end-to-end services and solutions leveraging strengths from strategy and design to engineering, all fueled by its market leading capabilities in AI, cloud and data, combined with its deep industry expertise and partner ecosystem. www.capgemini-gs.com

Cybersecurity & Information Systems Information Analysis Center 306

The Cybersecurity and Information Systems Information Analysis Center (CSIAC) is a component of the DoD - UD (R&E) and offers free research services to the federal government and contractors - including SME connections, trainings, database, access, and more - to foster collaboration and stimulate innovation. Visit our website at www.csiac.org

DAF Enterprise Modeling and Simulation 300

Air Force vision for the DAF M&S Gateway: Achieve decision superiority by creating an integrated, collaborative storefront providing the DAF M&S community access to authoritative data, artifacts, extensible models, and simulations to enable rapid decision superiority and operational readiness.

The DAF M&S Gateway will address M&S practitioner access to curated and authoritative data, enable the discovery of/access to curated data sets, provide collaboration, and access to specialized training for M&S through a knowledge management hub. It will leverage existing DoD and DAF compute investments such as HPC and Cloud services to improve access to computing resources and software development systems. www.modsim.af.mil

Dynepic, Inc. 401

NTSA Corporate Member

Stop by booth #401 to learn about Dynepic's MOTAR Platform of Platforms and how you can *Discover, Develop and Train Without Boundaries* - Online, Offline, Anytime, Anywhere! www.dynepic.com

Enduvo 407

Enduvo is a content creation platform for immersive communication and academic learning. We are the preferred immersive classroom across the USAF and are helping transform education and training programs at record speed and efficiency. Our no-code platform makes it easy for anyone to create high-quality simulated content, without any technical experience required. With Enduvo, users can develop interactive learning experiences that help people learn faster, retain more information, and collaborate more effectively. Enduvo has worked with the USAF since 2018, has an Authority to Operate (ATO) and a sole-source Indefinite Delivery, Indefinite Quantity (IDIQ) contract.

Elasticsearch, Inc. 307

Elastic's search-powered platform enables the public sector to find and share insights faster, monitor infrastructure for anomalies, and protect highly-targeted systems and data. Users trust our search, observability, and security solutions to accelerate the results that matter to their missions. Deployable on cloud, Elastic helps you search, solve, and succeed.
www.elastic.co/industries/public-sector

ESTECO 201

ESTECO is an independent software vendor who develops digital engineering technology for MDAO (multidisciplinary design analysis & optimization) and SPDM (simulation process data management). Its COTS products VOLTA and modeFRONTIER are used to integrate and automate simulation workflows, conduct design of experiments, trade - and numerical optimization studies, and collaborate among geographically dispersed engineering teams.

www.esteco.com

FSI Defense, A FlightSafety International Company

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Military and government operations rely on uncompromising training from FSI Defense to carry out their duties. Our tailorable programs prepare aircrew with the knowledge, skills, and expertise necessary to master individual and aircrew tasks. We maintain the highest standards of excellence in our training methodologies and technological advancements. Our unwavering commitment enables us to develop training solutions that ensure readiness and safety. www.flightsafety.com/government-military

Health Scholars 208

Pave the way for a future where XR technology not only enhances healthcare education but also becomes an integral part of daily practice.

Imagining the possibilities of a more immersive training experience for our clients and enabling them to quickly co-create solutions to solve their most challenging problems.

Health Scholars allows organizations the ability to quickly and seamlessly deploy AI and voice enabled courses without the need of internal resources. Patent pending technology takes "immersive" to the next level, allowing the learner to interact by speaking without having to point and click within their virtual environment. www.healthscholars.com

HTX Labs 406

NTSA Corporate Member

HTX Labs (HTX), founded in 2017 and based in Texas, is a commercial software company on a mission to accelerate the future of learning, employing XR technology and high-fidelity simulations for enterprise and government organizations to elevate the level of proficiency and preparedness of the next-generation workforce. HTX is the creator of EMPACT, an Immersive Training Platform that has gained widespread adoption in Aerospace, Defense and Commercial markets. HTX is focused on helping customers create, scale, and sustain immersive learning programs, using technologies such as Virtual, Augmented, and Mixed Reality, collectively referred to as Extended Reality. EMPACT is a force multiplier for training modernization, allowing customers to quickly create and deliver critical training to the point of need, allowing students to train anytime, anywhere, and on any device. www.htxlabs.com

InfiniteTactics 301

Analytics Gateway by InfiniteTactics is a purpose-built platform with core functionality of simple, ultra-scalable, secure compute with on-demand supercomputing to power the DoD HPCMP's most advanced software tools and data rich processing. Interoperability and collaboration achieve breakthroughs in research, MS&A, AI, and Autonomy. infinitetactics.com

Infinity Labs

SPONSOR

Infinity Labs was founded by a group of veterans, engineers, and senior DoD civilians with extensive Modeling, Simulation, & Analysis, cyber, and multidisciplinary technology experience to reinvent the very nature of innovation. Infinity Labs designs, builds, and implements enduring capabilities to solve the problem beyond the problem; the issue customers have yet to anticipate. We work on the hardest problems in industry and defense and provide revolutionary advances in the ability to analyze and solve complex problems in an ever-evolving, systems-driven world. Our engineers investigate new technologies and operational concepts capable of disrupting future environments. There are no limits. i-labs.tech

INHANCE 202

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Inhance is an award-winning software development company that creates cutting-edge immersive and interactive applications and tools for simulation and training in the aerospace and defense industry. Inhance is currently working with the USAF and NASA on multiple SBIR and STTR projects.

We bring together the best talent and technologies from Hollywood visual effects and video games to facilitate an understanding of complex science, technology, and operational concepts. Our team has AR/VR/XR, AI/ML, and full-stack software development expertise. www.inhance.com

Integration Innovation, Inc. (i3)   200

NTSA Corporate Member

i3's capabilities include: Full Life-Cycle/C5 Engineering Services | Cyber Security & IT Innovative Solutions | Interactive Multimedia Instruction | UAS & Intelligence Training | Warfighter Readiness/Training & Education | Launch/Operations Crew Training | Digital Missile Simulation | Software & Security Engineering. i3-corps.com

InVeris Training Solutions   403

NTSA Corporate Member

InVeris Training Solutions is the leading provider of technology-driven training solutions for defense forces, law enforcement agencies and commercial shooting range owners around the globe. Building off nearly a century of experience, InVeris technology powers live fire and virtual weapons training systems. www.inveristraining.com

iPerformX   102 & 103

iPerformX provides agile, enterprise AI and STE focused training applications with sustainment plans for current and future requirements to maintain USA superiority amid great power competition.

iPerformX has an approved AETC ATO and is available on a secure digital backbone with a Synthetic Training Environment, AI Sim Instructor, Generative AI Scenarios, Learning Management System, AI Scheduler, and analytics engine. www.iperformx.com

KBR   305

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We deliver science, technology and engineering solutions to governments and companies around the world. KBR employs approximately 34,000 people performing diverse, complex and mission-critical roles in 33 countries.

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LinQuest

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LinQuest is accelerating innovation in Digital Transformation. As an Industry leader, LinQuest develops the tools, methods, and people to ensure our Nation's competitive advantage in space and all warfighting domains. From concept to capability, LinQuest delivers integrated end-to-end solutions, enabling an interconnected, resilient, and digitally dominant Force for the future. www.linquest.com

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Mass Virtual Inc   204

NTSA Corporate Member

Mass Virtual is the foremost Extended Reality (XR) industry leader with over 14 years of experience in immersive design, development, deployment, and sustainment of turn-key training ecosystems. We are a human performance company. Our extensive experience in the XR landscape, coupled with our Universal Training Content Management System, provides a modular, scalable, user-defined training solution trumped only by reality. Innovation isn't just our tagline, it's in our code, our DNA, our culture. We are solution architects committed to holistically understanding customer needs in order to deploy incredible training in an affordable, efficient, safe, and memorable XR landscape. Mass Virtual is dedicated to providing training platforms at scale to the masses so that you can realize transformative enhancements in human performance. massvirtual.com

Modern Technology Solutions, Inc.

Modern Technology Solutions, Inc. (MTSI) is a 100% employee-owned engineering services and technology solutions company delivering first-choice capabilities and important, lasting contributions to the nation's defense, security, and most technically challenging strategic problems. Founded in 1993 by Air Force engineers, we continue to emphasize focus on employees and customers. www.mtsi-va.com

NBME/MedVR   404

MedVR Education: Revolutionizing Medical Learning

We merge healthcare and virtual reality to enhance medical education. Our immersive VR solutions make complex concepts accessible, engaging, and memorable.

Simulate procedures and practice patient interactions in realistic environments. With evidence-based design and scalable options, we cater to both small and large healthcare institutions. www.nbme.org

Pitch Technologies   308

NTSA Corporate Member

Pitch Technologies is a leading provider of open standards compliant products and services for interoperable distributed simulation. Pitch's products are used in local and geographically-dispersed simulation-based training, system development, integration and test, and training exercise delivery programs across a global range of sectors including Defense, Aerospace, Air Traffic Control, Transport, Energy, and Medicine. www.pitchtechnologies.com

Riverbed Technology   203

Riverbed empowers the public sector to visualize, optimize and accelerate the performance of any network and application, for any user, anywhere the mission requires. With Unified Observability and Riverbed Acceleration solution portfolios, Riverbed helps government customers optimize distributed network environments, speed applications, unify data, and gain actionable insights from across their IT ecosystem. The result is a seamless digital experience that improves user experiences and achieves organizational outcomes. With solutions that ensure networks, apps, and users operate at peak performance, coupled with unified views and intelligence, Riverbed cuts through complexity and uncovers valuable insights that contribute to mission success. www.riverbed.com

SimX   207

NTSA Corporate Member

SimX is the world's most comprehensive virtual reality medical simulation training platform and home to the largest library of VR-simulated patient encounters. Developed by clinicians for clinicians, SimX is currently used by the US Military as well as doctors, nurses, EMS, and healthcare providers to prepare through more accessible, immersive, and affordable simulated patient encounters. This patented software enables learners, instructors, and observers to work together in the same room or from across the world. www.simxvr.com

Smarter Reality   402

Smarter Reality builds custom training and simulation software for the Department of Defense and commercial customers. The company is a veteran-owned, award-winning software developer and design studio with capabilities in: • Modeling, Training and Simulation • Interactive 3D Environments • Artificial Intelligence • Virtual and Augmented Reality (VR, XR, MR) • User Experience / User Interface Design • Game-Based Experiences The company has multiple projects currently in SBIR Phase II including: Tabletop Exercise Platform - prepare teams for Agile Combat Employment, crisis response and deployed operations. Conflict Resolution Simulator - practice difficult leadership conversations in virtual reality with AI-enabled avatars. Training Fusion Simulator - virtual environment for "ready airmen training." Site Selection and Visitation System - identify, evaluate and simulation expedient and contingency airfield locations using machine vision. USAF-X - engage and recruit GenZ. www.smarterreality.io

Spectral Labs, Inc.   409

Spectral Labs Incorporated (SLI) is a small business located in San Diego focused on Product Development, Medium Rate Manufacturing, and Software Simulations and Training. Our primary objective is to turn targeted technologies into commercially viable products, with a strong emphasis on developing solutions for national security and defense. spectrallabs.com

Systecon North America   101

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Systecon and their Opus Suite of tools have been optimizing some of the most complex Life Cycle Management projects in over 20 countries worldwide. We are the market leader in predictive analytics, with the DoD embracing our tools to solve complex problems, including US Navy, USMC, OSD, and the F35 Joint Strike Fighter. We work across the entire product life cycle, relying on methods that have been tested and refined for over 40 years and analyses using our proprietary, global market-leading Opus Suite software. www.systecongroup.com

TacMed Solutions   109

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Tactical Medical Solutions, Inc. ("TacMed") is a leading supplier of proprietary medical solutions for emergency trauma care across the global military, law enforcement, fire and emergency, medical service (EMS), and civilian markets. TacMed uniquely fills a critical void for pre-hospital emergency trauma care to dramatically improve medical outcomes. tacmedsolutions.com

Tech Wizards, Inc.   303

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Tech Wizards (TWI) is a U.S. Navy Surface Training Advanced Virtual Environment (STAVE) solutions provider. TWI supports government and commercial arenas with systems, software, and cyber security services. TWI is a small business founded in 2005 and is based in Dahlgren, Va. For more information on Tech Wizards, our VMTs, and contracts, visit us at booth #303. www.tech-wizards.com

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