Congressional Modeling and Simulation Caucus

SELECT MEMBERS OF CONGRESS WILL PARTICIPATE IN THIS I/ITSEC EVENT

This special event invites everyone attending the conference or exposition to hear from the training and simulation leaders in Congress. It is also a great opportunity for you to interact with Congressional Members on issues of importance to you or your company and to impress upon them your priorities. With defense budgets constantly in flux, this forum provides you an opportunity to advocate for the value of training and simulation in support of national security. Attendees will hear from the leadership of the Modeling and Simulation Congressional Caucus on their perspective of the situation in Washington and have the opportunity to make their case for timely investments in modeling and simulation. With every budget dollar being scrutinized, strong advocacy for training and readiness has never been more important.

Session Chair:
Jennifer McArdle, CMSP, Improbable

INNOVATING AND ACCELERATING TRAINING: ADAPTING TO AN UNEXPECTED FUTURE!
About the 2021 Fellow

Frederick E. (Fred) Hartman (LTC USA, Retired), graduated from the U. S. Military Academy with a commission in Field Artillery (FA). After a tour as an FA Battery Commander, he was selected for flight training and qualified as an Army aviator in both fixed- and rotary-wing aircraft before flying radio research missions in Vietnam. After receiving an MS in operations research from the Naval Postgraduate School, Fred completed several Army analytic assignments before leaving active duty in 1981. Fred joined CACI, Inc. as an analyst and over the next ten years progressively grew from department manager to executive vice president by building a software development and analysis business group consisting of professionals in operations research, software engineering, software development, logistics engineering, and financial analysis. After a brief stint as the Chief Operating Officer of Cyber Communications Technologies (CCT), Fred was founding partner of Applied Solutions International, Inc., a technology applications and analysis company. Fred became an IDA adjunct to support training and readiness, and subsequently was appointed as an IPA with OSD as a technical advisor to the Army PEO STRI for the Joint Simulation System (JSIMS) program. He had concurrent duties in OSD as the DMSO Enterprise Division Manager. Fred later returned to OSD in the Office of the USD (Personnel and Readiness) to serve as co-lead of the Training Capabilities Analysis of Alternatives, and Director, Training Transformation Joint Assessment and Enabling Capability. He also served as Deputy Director, Readiness and Training (Policy and Programs). Fred has served as a member of the Army Science Board, led a study panel for the National Academy of Sciences, Board on Army Science & Technology; was an Executive Committee Member of the Simulation Interoperability Standards Organization (SISO); and is a past President and Fellow of the Military Operations Research Society (MORS).

Come See the I/ITSEC Fellow Presentation

Frederick E. (Fred) Hartman has focused his I/ITSEC Fellows paper on his many years of M&S experience in the training and acquisition domains. Due to the great progress made over the years, many persistent M&S technical issues have been resolved and we are within the grasp of providing reliable simulation capabilities across the entire DoD both efficiently and effectively. Current and emerging technologies will assist the M&S community to lower both technical risk and cost of future M&S systems and applications. This paper and presentation are relevant to multiple M&S domains across the spectrum of applications. Fred provides a number of personal examples taken from his vast professional experiences and describes how multiple technological improvements and innovations have resulted in the robust set of M&S capabilities that are available today and provides insights into future opportunities.
Global forces continue to be challenged by erratic budgets and complex threats. Services continue to prepare for a wide array of missions that range from disaster assistance to the return of great power competition. Additionally, Nations continue to deal with the opportunities and challenges of accelerating technology and cybersecurity. Our Senior Officer panel will address current and future environments within the context of this year’s conference theme, “Innovating and Accelerating Training: Adapting to an Unexpected Future!” This year’s panel will include senior representatives from all U.S. Military Services and NATO. Following opening remarks, the audience will interact with the panel through an on-line chat Q&A feature. All attendees will also have the chance to submit questions in advance. Don't miss the opportunity to hear from national leaders on the way ahead.

Session Chair:
Tara Kilcullen, Training and Readiness Accelerator, NSTXL

INNOVATING AND ACCELERATING TRAINING: ADAPTING TO AN UNEXPECTED FUTURE!
“A larger, more lethal, more ready fleet manned by the world’s greatest Sailors is required to maintain our advantage at sea and protect America for years to come.” - CNO NAVPLAN January 2021

These words from the CNO 2021 Tri-service maritime strategy highlights the importance of the theme for I/ITSEC 2021: Innovating and Accelerating Training: Adapting to an Unexpected Future! In this special event Navy Flag Officers will discuss how the U.S. Navy plans to meet this unexpected future while deploying forward to engage our long term competition for the freedom of the seas.

America, as a maritime nation, depends on the U.S. Navy to establish security and stability on the seas. As out near and future foes are modernizing their forces, the U.S. Navy strives to maintain the technological advantage of the most highly trained and innovative naval force in the world. To that end, the Navy looks to ensure our Sailors can outthink and outfight any adversary while remaining the best trained and education naval force. Deterrence is not merely in raw capability, we must demonstrate the skill and will to win the fight. Making sure that both lethality and readiness are maintained as part of our core training goals is critical to this ability. And we must do this while maintaining a responsible plan for funding and acquiring these capabilities.

The Sea Services of the United States are critical to defending the nation's security around the globe. The Sailors who serve today are the most well-trained naval force and are critical to the Navy's ability to meet its mission. This panel of senior Navy leaders will provide insight from acquisition, research and technology and mission readiness perspectives into how to optimize the human performance of U.S. Navy Sailors so that they can be counted upon to succeed in the face of the unexpected future. Adm. Michael Gilday, Chief of Naval Operations reminds us, “The long-term global maritime contest we face today requires us to adopt competitive and sustainable approaches to deliver the Integrated All-Domain Naval Power America needs to win. The decision and investments we make this decade will set the maritime.”
Modernizing Army Training Mission and Operations Panel

ARMY’S FUTURE TRAINING CAPABILITY IS THE SYNTHETIC TRAINING ENVIRONMENT

MODERATOR
BRIGADIER GENERAL WILLIAM R. GLASER, USA
STE CFT Director

PANELISTS
MAJOR GENERAL DAVID J. FRANCIS, USA (INVITED)
Commanding General, U.S. Army Aviation Center of Excellence

BRIGADIER GENERAL LARRY BURRIS, USA (INVITED)
Chief of Infantry and Director, Soldier Lethality CFT

BRIGADIER GENERAL CHARLES LOMBARDO, USA (INVITED)
Deputy Commanding General, U.S. Army Combined Arms Center – Training

BRIGADIER GENERAL JETH B. REY, USA (INVITED)
Director of the Network Cross-Functional Team, Network Cross Functional Team

GARY W. BLOHM, SES (INVITED)
Director, Army Geospatial Center

BRIGADIER GENERAL WILLIAM M. BORUFF, USA (INVITED)
Joint Program Executive Officer Armaments & Ammunition and Commanding General, Picatinny Arsenal Joint Center of Excellence for Lethality

BRIGADIER GENERAL EDMOND (MILES) BROWN, USA (INVITED)
Commanding Officer, DEVCOM Soldier Center

The Army’s future training capability is the Synthetic Training Environment (STE). The STE will revolutionize Army training by leveraging the virtual and gaming industries to provide the repetition necessary at the Point of Need to improve Soldier lethality and survivability. The STE will provide the Army and services a usable, realistic, and complex training environment that will allow units to improve readiness through repetition, achieving mastery of warfighting skills from Soldier and squad through the highest Army echelons. The synthetic environment will replicate the full range of operations; weapon systems; unit, civilian, and enemy behaviors; environmental conditions; and Mission Command processes. This capability will address the challenges of training to fight in multiple domains (land, air, maritime, space, and cyberspace). STE will converge current live, virtual, constructive, and gaming environments to enable units to train at home station, institutions, armories, deployed locations, and other points of need. It will adhere to common standards, open architecture, common terrain, and authoritative data, ensuring the ability to more easily integrate new and better technologies over time.
This event will focus on the critical aspects of data management and its integral role in the DoD’s digital modernization strategy. It will provide an opportunity for I/ITSEC participants to engage directly with DoD Chief Data Officers—the senior executives responsible for overseeing the Department’s transformation into a data-dominant enterprise. This panel discussion will provide participants with insights into the changing roles and responsibilities Chief Data Officers face, and it will address specific policies, standards, and requests for the Defense industrial base as they develop, modernize, and implement new technology across the full spectrum of functional areas.
To become more lethal, trans-regionally integrated, and effective in contested domains (air, ground, maritime, and cyber), Special Operating Forces (SOF) must have a capability to rapidly understand the battlespace and make timely decisions to shape the information environment. Mission Command Systems (MCS) provide a comprehensive, near real-time operational picture across all domains while synchronizing coordinating authorities, efforts, joint functions and core missions. USSOCOM recently validated a requirement for MCS. SOF MCS is a suite of integrated tools to assist with battlefield situational awareness and information sharing to stimulate the Common Operating Picture (COP) and Common Intelligence Picture (CIP). Extended Reality and Artificial Intelligence Technologies, machine and deep learning, and hybrid cloud computing are poised to assist with leap-ahead capabilities to integrate into MCS. The focus of the SOF senior panel will be on cross-program integration of MCS/COP/CIP tools to stimulate and/or simulate Mission Planning Systems, Data Production for Mission Planning and Tactical Assault Kits, and other emulation and simulation tools used in training, exercises, and rehearsal, like Synthetic Intelligence Surveillance and Reconnaissance, and AI-enabled globally integrated operations.
This event will provide an opportunity for I/ITSEC participants to hear from U.S. Marine Corps General Officers on current issues. This discussion will enable the panelists to share their insights on the conference theme and discuss how their organizations are contributing to the modernization of the Marine Corps in line with the Commandant of the Marine Corps' planning guidance and Marine Corps Force Design 2030.
During the Cold War, protracted peacetime competition, sporadically interrupted by cycles of intense combat, inspired a series of paradigm shifts in the U.S. military’s approach to training. These gave birth to a wide range of training innovations, ranging from the U.S. Navy’s Top Gun School, to the U.S. Air Force’s Red Flag exercise, and later the U.S. Army’s Combat Training Centers. A new level of stress and rigor was introduced through radical transformations of training regimens—helping to ensure American warfighters subsequent tactical and operational dominance.

Today, the U.S. requires a similar rethink in the way it trains its armed forces. The technological capabilities and asymmetric strategies of key potential adversaries risk largely invalidating the current American Way of War—a way of war that is largely predicated on power projection, the capacity to continuously operate from sanctuaries, and overwhelming technological superiority. To preserve American military superiority, the U.S. must reimage not only how it plans to fight, but also how it trains. Drawing on representatives from industry, the defense policy community, the services, and government, this panel describes how the U.S. should reconceptualize training—innovating and accelerating into the future—towards “A New American Way of Training.”
In the mid-2000s, a consolidated effort, led by the Joint/DoD Modeling & Simulation Workforce Development Working Group, developed the first version of the M&S Body of Knowledge (BoK). This BoK applied to all sectors of the DoD ModSim workforce at the awareness, management, and executive levels. At that time, models were usually massive, specific use programs focusing on specific functions or supporting specific programs. Networking simulations was in its early stages and took large amounts of time, effort, and funds to accomplish. And the models themselves were, for the most part, physics-based requiring large computational systems.

Fast forward to today, and the world of modeling and simulation has changed drastically and is even more critical to DoD efforts. Simulations have become more immersive. Distributed simulation events are more prevalent and easier to accomplish. And the models now include digital artifacts, digital twins, and other non-computational methods. With the dramatic changes in modeling and simulation, the Modeling and Simulation BoK is due for a significant update.

The purpose of this panel is to provide Senior Leader insight into what knowledge is critical for developers, users, and managers of ModSim efforts to possess in order to increase the use and utility of modeling and simulation. We will hear from Senior Leaders representing a cross section of the ModSim user community.
INNOVATING AND ACCELERATING TRAINING: ADAPTING TO AN UNEXPECTED FUTURE!

EXTENDED REALITIES (AR/VR/MR) WILL BE AS UBQUITOUS AS LAPTOPS AND MOBILE DEVICES IN THE 3-5 YEAR HORIZON, AND THE TRAINING AND SIMULATION COMMUNITY IS CURRENTLY EXPERIENCING AN INCREASING TREND TOWARDS THE ADOPTION OF THESE TECHNOLOGIES. HOW DO WE ADAPT AND ADOPT TO TAKE FULL ADVANTAGE OF THIS PENDING EXPANSION OF TECHNOLOGY TO REALIZE MAXIMUM VALUE? ENGAGE WITH AN INDUSTRY RECOGNIZED CAST OF THOUGHT LEADERS IN THE XR MARKET TO GAIN FRESH PERSPECTIVES AND BE POSITIONED TO ACCELERATE THE USE OF EXTENDED REALITIES.

THE PRESENTERS WILL USE A PRESENTATION TECHNIQUE SIMILAR IN STYLE TO “TED TALKS.” WE ARE CALLING THESE PRESENTATIONS “THE TALX” WHERE THE X STANDS FOR WHAT’S NEW. THE PRESENTATIONS ARE SURE TO BE THOUGHT PROVOKING, INSPIRING, AND WILL MOTIVATE US ALL TO ACCELERATE THE ADOPTION OF XR TO ACHIEVE HIGH LEVELS OF HUMAN PERFORMANCE.

This event is part of I/ITSEC’s newly formed Next Big Thing initiative which explores and presents to the community future trends and innovations for which we need to be prepared for and embrace.

NEXT BIG THING SPONSORED BY SAIC | Epic Games | Design Interactive | Aero Simulation
Talent Data

DOD SENIOR LEADERS ARE EMPHASIZING DATA-DRIVEN EVERYTHING

**MODERATOR**

**SAE SCHATZ, PH.D.**
Director, ADL Initiative

**PANELISTS**

**THOMAS A. CONSTABLE, SES**
Principal Deputy Assistant Secretary of Defense for Readiness, Office of the Secretary of Defense

**REAR ADMIRAL PETER GARVIN, USN (INVITED)**
Commander, Naval Education and Training Command (NETC)

**CHIEF MASTER SERGEANT ERIK C. THOMPSON, USAF**
Command Chief Master Sergeant 19th Air Force, Joint Base San Antonio-Randolph

**LIEUTENANT COLONEL KRISTIN SALING, USA**
Chief Analytics Officer, Army Talent Management Task Force and Acting Director, Army People Analytics

**NAOMI O. SZEKERES**
Transformation Strategy Consultant, U.S. Chamber of Commerce Foundation

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Data underpins digital modernization and is the fuel for advanced decision-making. The DoD Data Strategy describes an ambitious approach for transforming the Department into a data-driven organization. Similarly, Personnel and Readiness Strategy for 2030 emphasizes a data-centric approach to how Defense civilians and military members are educated, trained, prepared, and managed. A data-driven personnel system enables adaptive systems and affords new opportunities for career field management, workforce planning, responsive training, and other talent management function. Data can also empower artificial intelligence (particularly, machine learning) to optimize the talent management system for employees, supervisors, and senior leaders, as well as organizational outcomes.

One ripe area for data modernization is within personnel readiness (aka talent management or Manpower, Personnel, Training, and Education).

To become a data-dominant enterprise, DoD must be powered by a robust technical infrastructure, data management and business processes, and a thoughtful policy framework that enables the rapid analysis and flow of relevant, trustworthy, ethical, and secure information. However, DoD’s talent management system is complex, and there are inherent challenges to accommodating interoperability across the Department’s diverse organizations and their heterogeneous systems. However, solving this challenge will pay dividends, and not only for the military. This interest in data-driven talent extends beyond DoD, to include Federal-wide initiatives, such as the Chamber of Commerce’s efforts to modernize America’s workforce, the Institute of Electrical and Electronics Engineers (IEEE) new standards groups around learner records, as well as recent popular news articles about personal data, technology-enabled learning, and personal data privacy, security, and equity. This special event includes senior leaders from across DoD and beyond to discuss the driving need to create a data-dominant talent system.
INNOVATING AND ACCELERATING TRAINING: ADAPTING TO AN UNEXPECTED FUTURE!

FOCUS EVENT

MONDAY, 29 NOVEMBER 2021 • 1400-1500 • ROOM 319

CMSP 3.0 – Reinvention!

MODERATOR

IVAR OSWALT, PH.D., CMSP
Senior Modeling and Simulation Analyst, The MIL Corporation

Modeling and simulation is a vibrant and growing community, so it’s more important now than ever to distinguish yourself from the crowd. Becoming a Certified M&S Professional (CMSP) does just that. It shows your commitment to superior professionalism, upholding industry standards, and to continued learning above and beyond even a terminal M&S degree.

This special event describes CMSP; the motivators behind its creation, its evolution, and the current version. After providing a quick snapshot of CMSP’s pedigree, a recent CMSP awardee will summarize the use of a Learning Management System to improve the certification process, introduce the new examination (including sample questions), and describe the improved infrastructure that includes on-line preparation materials and in-person mentorship. Finally, information will be provided on future CMSP offerings (e.g., sub-certifications) and on how interested individuals can start the process to achieve their certification.

After that, an around-the-room discussion will provide additional details and answer any questions.
DoD Modeling & Simulation and Digital Engineering Relationship

MODERATOR
PHILOMENA ZIMMERMAN
Deputy Director, Engineering Tools and Environments, Office of the Under Secretary of Defense (Research and Engineering)

PANELISTS
MICHAEL GULLY (INVITED)
Lead Systems Engineer-Digital, Office of the Assistant Secretary of the Army (Acquisition, Logistics and Technology)

MICHAEL DOCTOR (INVITED)
Director of Systems Engineering, Office of the Deputy Assistant Secretary of the Navy Research, Development and Acquisition

BRETT TELFORD
Director, Modeling and Simulation Office, Marine Corps Combat Development Command

JAMES KYLE HURST (INVITED)
Director, Digital Engineering Enterprise Office, Office of the Deputy Assistant Secretary of the Air Force for Science, Technology and Engineering

There are some similar capabilities and limitations within the communities of practice for Digital Engineering and Modeling and Simulation. GS15/O-6 leadership representatives from the Services, MDA, and OSD (Research and Engineering) have begun technical exchanges about the overlaps, gaps, and support between these two communities of practice to explore opportunities for collaboration. This panel will further those discussions within a broader audience and welcome participation and questions from the I/ITSEC attendees.

The moderator will provide basic context for a general understanding of the terms and definitions and developing capabilities. Both Digital Engineering and Modeling & Simulation share the basis of definitions of models, data, architecture, and validation. Using this baseline, how can each body of knowledge inform the other community of practice? Panelists will give a brief overview from their organizational perspective of the touchpoints and linkages for the relationship between Digital Engineering and Modeling & Simulation. This will be followed by a moderated discussion of the panelists and questions from the audience.

Session Chair:
Marty Bink, Ph.D., University of Georgia
The Innovation Match Game

MATCHING SUCCESSFUL TRAINING PROTOTYPES TO NEW USERS

HOST
MARGARET MERKLE, PMP
Innovation Technology Chief,
Simulators Division, Agile Combat Support Directorate, Air Force Life Cycle Management Center

CO-HOSTS
DYLAN GRECO
Deputy Program Manager for Innovation, Simulators Division, Agile Combat Support Directorate, Air Force Life Cycle Management Center

MARILYN EVANS
SAIC, Supporting Program Manager, Simulators Division, Agile Combat Support Directorate, Air Force Life Cycle Management Center

EMILY EDMISTON
Tangram Flex, Supporting Program Manager, Simulators Division, Agile Combat Support Directorate, Air Force Life Cycle Management Center

Over the past few years, Pitch Day and Shark Tank competitions have been the focus of much fanfare – but what happens next? How do we move beyond experimental uses and match successful prototypes with real world users? In this event we will match up three USAF training units with three successful prototypes in an exploration of possible solutions to real world training needs. Modeled after the TV show “House Hunters”, each prototype vendor will present a pitch, and after a short Q&A, the audience can pick their favorite! As an added bonus, vendor submissions will be highlighted on the Expo floor to give everyone an opportunity to meet the vendors!
Focus Event

Tuesday, 30 November 2021 • 1600-1730 • Room 320GH

Vision from the Training Systems Program Managers

Moderator

Michael Merritt
Acquisition Director, Naval Air Warfare Center Training System Division (NAWCTSD)

Panelists

Captain Dan Covelli, USN
Commanding Officer, Naval Air Warfare Center Training System Division (NAWCTSD)

Captain Lisa Sullivan, USN
Program Manager, PMA-205 NAVAIR

Robert Kerho, USN (Invited)
Program Manager, PMS-339 NAVSEA

Each year at I/ITSEC, a panel of Navy captains and senior civilian leaders representing the Navy’s training acquisition organizations convenes to discuss the year’s highlights and share their strategic vision. I/ITSEC participants are welcome and encouraged to attend to hear about the state of the Navy’s Training Systems.
Cloud-based Simulation Developments in Europe

MODERATOR

WIM HUISKAMP
Chief Scientist Modelling, Simulation and Gaming, TNO Defence Research; ETSA Vice-Chair

PANELISTS

ANDY SMITH
ETSA Chairman, Halldale Publishing

ROBERT SIEGFRIED, PH.D.
Senior M&S Consultant and Managing Director, Aditerna GmbH, Germany
Chair of the NATO Modelling and Simulation Group (NMSG)

LIEUTENANT COLONEL MARCO BIAGINI
CD&E Branch Chief, NATO Modelling & Simulation Centre of Excellence, Rome, Italy

BHARAT PATEL
Fellow Defence Science and Technology Laboratory (Dstl), UK Ministry of Defence

LARS JANSSON
Project Engineer, Swedish Defence Materiel Administration (FMV)

Cloud based technology has become a new way of delivering services in the civilian domain. Amazon, Google, Microsoft, Netflix, and others have been trailblazers for the technology and provided on-demand services and applications to customers around the globe. NATO nations have investigated the application of M&S as a Service in a cloud based environment. The results and initial implementations of this capability are now appearing in Europe. Several interesting military applications have been demonstrated and are being deployed. This session will provide insights in technical, cultural, and economic aspects that are relevant for current and future cloud based simulations in the military domain.

The European Training and Simulation Association (ETSA) (“The European Voice” of the Modelling, Simulation & Training community) has invited representatives from several European armed forces to discuss the national vision on the use of Military Cloud Based Simulation (MCBS). The Industry presenters will provide an overview of current capabilities and share examples of applications that leverage the advantages of MCBS. The evolution and mid-term plans will be discussed as well as the partnerships (NATO, EDA, R&D, Industry) that are in place or desired to further develop current capabilities.

The ETSA special event panel session will engage with the audience on the way ahead towards cloud based simulation applications and discuss how to engage with ETSA and leverage its partnership agreements with NTSA, EDA, and Industry.
Navy Acquisition Menagerie

MODERATOR
BRIGADIER GENERAL FRANK KELLEY, SES, USMC (RET.)
Vice President, Defense Acquisition University

PANELISTS
CAPTAIN BEN “NUT” VANBUSKIRK, USN
Director, NavalX

WHITNEY TALLARICO
Director, NavalX Tech Bridges

HALLIE BALKIN, ESQ.
Learning Director Other Transactions, Defense Acquisition University

BRIAN SERRA (INVITED)
Contracting and Acquisition Guy, Defense Acquisition University

Join us for great conversation with a cast of not-your-usual characters. Members of NavalX, Naval Tech Bridges, and DAU will go on an exploration of non-FAR based options. From OTAs to PIAs, explore a sea of acquisition acronyms not found in the FAR. Retired Marine Corps Brig. Gen. Frank Kelley, now Vice President of DAU, leads this diverse panel as we discuss new ways for Navy acquisition to stretch out and reach new seas.
The TaIX – XR Technical

PUTTING XR TO WORK IN DEFENSE

MODERATOR

JOHN CUNNINGHAM
Head of Government Solutions, Unity

PANELISTS

MIKE CANNIZARRARO
Technical Development Division
Chief, U.S. Army Future
Command STE CFT

MAJOR MEGHAN ‘SLACQ’ BOOZE, USAF
F-15 E Instructor, Pilot 391st
Fighter Squadron

MAJOR SEAN ‘POTUS’ LIPKIN, USAF
F-15E Instructor Pilot, Seymour
Johnson AFB

SHELLY PETERSON
Associate Fellow, Lockheed Martin
Corporation

MATTHEW STONE
Team Lead, Human Systems
Engineering Augmented Reality
HSEAR) Group, NAWCAD
Human Systems Engineering

Meet and listen to industry technical leaders in Extended Realities (XR). Presentations will use the TED talk format and will be in a new to I/ITSEC venue called the Next Big Thing lounge. Come and be engaged, listen to new perspectives on cutting edge XR and be part of the conversation on how we accelerate XR and realize value. This event is part of I/ITSEC’s newly formed Next Big Thing initiative which explores and presents to the community future trends and innovations for which we need to be prepared for and embrace.

NEXT BIG THING SPONSORED BY SAIC | Epic Games | Design Interactive | Aero Simulation

Session Chair:
Mindy Hoover, Ph.D., Iowa
State University
The Department of the Air Force’s Chief Modeling and Simulation Office is proud to spotlight the Air Force Gaming team as a great initiative on building the workforce of the future and sense of community.

Gaming? A waste of time? Join the and Air Force Gaming team while they debunk the various negative perceptions that cloud the world of gamers and the technologies they love. This event will feature the founders of Air Force Gaming, their story, and a panel focused on embracing and unleashing gamers in the DoD and beyond. Oh, and of course, a little friendly competition.
EXPLORING HAPTICS AND ITS ROLE IN THE LEARNING PROCESS FOR MEDICAL-RELATED TRAINING & SIMULATION

This event provides I/ITSEC attendees an opportunity to hear from a diverse panel of experts in the field of haptics. Experts from academia, research, technology integrators, and haptic device companies will describe the role of haptics in the learning process for training and simulations across a variety of domains to include medical, maintenance, flight simulation, automotive, and weapon familiarization. The latest trends in haptics will be discussed during the panel from multiple perspectives. This event serves as a one-stop shop for I/ITSEC attendees interested in haptics, and audience members will have the opportunity to ask panelists questions and be directed to visit booths for demonstrations.
USMC Large Scale Exercises

LEADING THE LARGE SCALE EXERCISE

MODERATOR

JOHN TAYLOR
Deputy Program Manager,
Training Systems Marine Corps
Systems Command

PANELISTS

COLONEL RONALD D. STORER, USMC
Assistant Chief of Staff, Training
Marine Air Ground Task Force
Training Command and Marine
Corps Air Ground Combat Center

COLONEL FRIDRIK FRIDRIKSSON, USMC
USMC Director Tactical Training
Exercise Control Group

COLONEL SCOTT A. GEHRIS, USMC
Commanding Officer, Marine
Corps Tactics and Operations Group

COLONEL AARON A. ANGELL, USMC
Commanding Officer, Marine
Corps Logistics Operations Group

COLONEL DANIEL J. WITTNAM, USMC
Commanding Officer, Marine
Corps Mountain Warfare Training Center

CAPTAIN NEIL A. KRUEGER, USN
Director of Training,
Expeditionary Warfare Training Group, Pacific

This event will provide an opportunity for I/ITSEC participants to engage directly with U.S. Marine Corps Large Scale Exercise Leaders on current issues. Large Scale Exercises are a critical area for Marine Corps Training and Readiness. The stakeholders for this event will provide updated training data to inform industry of future training needs. This panel discussion will enable the speakers to share their perspectives on the conference theme from their viewpoints.
The Spider in the Urinal: A Panel on AI Ethics, Unpredictable Secondary Events, and AISs

MODERATOR
JEANINE A. DeFALCO, PH.D.
Research Psychologist (Adaptive Training), Army Futures Command, DEVCOM-STTC, Orlando

PANELISTS
SHELLY BLAKE-PLOCK
President and Chief Executive Officer, Yet Analytics, Inc.

OZLEM ULGEN, PH.D.
Associate Professor in Law, School of Law, University of Nottingham, UK

JORDAN RICHARD SCHOENHERR, PH.D.
Assistant Professor, Concordia University
Adjunct Research Professor, Department of Psychology and the Institute for Data Science, Carleton University

ANDREW J. HAMPTON, PH.D.
Assistant Professor of Psychology, Behavioral Sciences Department, Christian Brothers University

RICHARD TONG
Chief Architect, Squirrel AI Learning

This panel will discuss ethical considerations and recommended best practices in the design of artificial intelligence driven adaptive instructional systems (AISs), including: Mistakes Made By A.I. and Regulation of A.I.

Panel members will present the efforts of the IEEE working group P2247.4 on developing recommended practices that can be used to provide guidance in ethical design to engineers and consumers of training and learning systems.

AISs have been established as effective training and education systems and have been deployed in military, commercial, and open-source versions. Senior defense officials have emphasized the need to adhere to laws and values while mitigating risks associated with AI driven systems, but there is little codified guidance on how to address and remedy these concerns. This panel will bring informed discussion on ethical considerations for AI driven learning and training systems.

This panel will be of interest to acquisition decision makers who are concerned with AI driven products that do not violate the DoD’s recently adopted (2/2020) ethical principles for AI. In addition, commercial vendors—who understand the business value to the DoD stakeholder—will be interested in understanding that ethically designed AISs will limit exposure to workplace litigation, enhance diversity strategies, and help align AI to the resilience and culture goals that support the DoD mission.

Attendees will walk away with insights and information on how to ensure AI driven technologies address ethical concerns devised from theoretical frameworks.
Artificial intelligence (AI) is making its way into more environments, workplaces, and missions. With the goal to augment and improve how we humans perform our jobs, how are we preparing for this new reality? What sort of training will be needed—for both humans and AI—to ensure human-AI teams optimally work together? How will training be designed and apportioned for the human and the AI? What about joint training for the total system? Or, conversely, will humans and AI adapt and evolve regardless? This eclectic panel of five innovators from across the military and civilian domains such as aviation, space exploration, first responders, command & control, next-generation transportation, and healthcare, will explore innovations in training to ensure that human-AI teams attain mastery in order to achieve optimal performance. Led by Daniel Serfaty, the panel will examine which skills and competencies will be needed by humans to work with AI, and those needed by AI to work effectively with humans. The panel will explore this unfolding partnership of human expertise and artificial intelligence, and the radically new demands on learning and training required to ensure a successful human-AI future.
Air Combat Cross Services Training Ranges Panel

MODERATOR
MICHAEL MERRITT
Acquisition Director, NAWCTSD

PANELISTS
CAPTAIN LISA “PEPPY” SULLIVAN, USN
USN Program Manager PMA-205 NAVAIR

CAPTAIN TAMARA “TLO” GRAHAM, USN
USN Force Requirements CNAF N8

COLONEL BRIAN HENSON, USAF
Senior Materiel Leader Aerospace Dominance Enabler Division AFLCMC/HBZ

COLONEL SCOTT “GIMLI” KOECKRITZ, USAF
Air Combat Aviation Requirements USAF

This event will include a discussion on air combat training ranges across services and how industry can help the various warfighters in connecting their ranges and ultimately providing the best training possible to the United States military.
Entering the seventh year of this special event series and after a true Black Swan pandemic last year, we are changing gears to focus on a different kind of virus. We investigate the world of Cryptocurrency and Ransomware with the Black Swan theme where a virus infects the Dow Jones and NASDAQ servers. Ransomware hits Wall St.!

We are bringing together industry experts and security professionals to inform our I/ITSEC audience on what exactly is Ransomware and how to avoid it. Why is Cryptocurrency so popular with criminals and is it the new digital currency of the future? The security professionals will also discuss typical industry vulnerabilities and how to build resiliency to these computer viruses. Please join us for this engaging session!

The term Black Swan is used to describe a low probability/high impact event which could profoundly affect our future. The term comes from the 2007 book, *The Black Swan: The Impact of the Highly Improbable* by Nassim Nicholas Taleb, where he presents various world-changing events and advocates anti-fragility to not only survive but thrive during crises. We believe modeling and simulation can play a major part in exploring these events to find cures and better prepare us for similar crises in the future.
INNOVATING AND ACCELERATING TRAINING: ADAPTING TO AN UNEXPECTED FUTURE!

A Modular Open Systems Approach (MOSA) is an acquisition and engineering tactic focused on achieving lifecycle goals for a product or family of products. These lifecycle goals should address both business and technical needs in support of Army acquisition strategies. An effectively applied MOSA results in reduced total ownership cost and can be quickly customized, analyzed, modified, extended, and certified throughout the product lifecycle in response to changing user requirements and technology obsolescence management or advancement. Modular, open architectures enable rapid, more efficient capability development, upgrades, and technology insertion. Army Enterprise Architecture efforts will employ MOSA and common modular open architectures that include strategic commodity plans, the use of common data & interface standards, and facilitate shared reuse opportunities for key commodities (e.g., hardware, software, data, edge devices, etc.). The Army Training Enterprise Architecture will integrate and interoperate across PEO enterprise product lines and operational capabilities with the Synthetic Training Environment to enhance Soldier training realism and the user experience.
Tech Vision – Innovation Megatrends

**MODERATOR**

CHARLES ONSTOTT  
Vice President & Chief Technology Officer, CALibre

**PANELISTS**

ALETHEA DUHON, PH.D., SES  
Associate Director for Analysis, Department of Homeland Security National Risk Management Center Cybersecurity and Infrastructure Security Agency (CISA)

SANJAY SARDAR  
Senior Vice President, Digital and IT Modernization, SAIC

DANIEL ROBINSON  
Founder and Chief Executive Officer, Red 6

GENERAL MIKE HOLMES, USAF (RET.)  
Chairman of the Board, Red 6

Envision the future! Engage with technology leaders in the industry to gain their perspectives on the technology megatrends which will influence our market. A lot of people are enamored with the amazing amount of innovation going on in the commercial and consumer markets. The possibilities for innovation in the United States government missions are just as exciting because the technology is fresh, the challenges are complex, and the results are meaningful and impactful. Listen and begin the process of posturing yourself and your organizations to be in an advantageous position.

**NEXT BIG THING SPONSORED BY**  
SAIC | Epic Games | Design Interactive | Aero Simulation
Cyber ‘King of the Hill’

This event provides an opportunity to develop the Cybersecurity workforce of the future in a “King of the Hill” (KotH) cybersecurity competition designed to give high school student teams experience performing and defending against penetration testing. Each of the 5-person teams will conduct both offensive and defensive operations on their network, and scoring will be based on the “scorebot” in the open source KotH kit. Panelists will provide interactive After Action Review with each team, allowing the audience understand the defensive and offensive the approaches utilized by each team. The event will award prizes to: 1) the team with the most points; 2) the team with the most innovative attacking technique(s); and 3) the team with the most innovative defensive technique(s).
Given the continued explosion of advanced technology options for military education and training, their application can be viewed as an opportunity and a risk. The opportunity is taking advantage of the latest commercial technology for more realistic mission training at substantially lower costs.

The risks can come from a couple of key things we see happening today. There is usually a lack of a principled approach to requirements definition in the acquisition of training and educational systems to perform specific tasks. Further, there is typically a lack of comparisons among alternative solutions to meet those requirements. Audience members will connect with a group of multinational innovators who are working to increase the rigor applied to the fuller life-cycle of technology selection, implementation, evaluation, and feedback. Event participants will also have a chance to hear about panel member’s process, successes, and continuing challenges in research explorations happening in the real world. Audience members will also come away with a much better understanding of what approaches and methods have been shown to work and to provide “decision-quality” findings.
This event will provide an opportunity for participants to hear from Air and Space Force leaders regarding current and future activities related to the Air Force Chief of Staff, Gen Brown’s, message, “Accelerate Change, or Lose.” Participants in this panel will be senior leaders representing the Headquarters Air Force, Space Force, Air National Guard, and several Air Force Major Commands (MAJCOMs). The panel discussion will enable the speakers to share their perspectives on the conference theme as well as the opportunities and challenges to accelerate change to remain the most dominate and respected Air and Space Force of the world now and in the future from their respective commands.
Iron Dev

Iron Dev is a team competition similar to competitive cooking shows, where teams will be given a challenge and "secret ingredient" to develop a distributed AR/VR training, education, or operational solution to improve warfighter readiness. Teams consist of diverse members with skills in AR/VR development, simulation networking/distribution, graphic design, simulation development, and training development. Teams have 50+ days to develop their solution and then demonstrate them on the final day of I/ITSEC in front of a fun and engaging panel of judges. Awards will be given to the Best Overall Solution, Most Innovative Solution, and People's Choice.

This is the third annual Iron Dev competition at I/ITSEC. Each year brings new, innovative, and intriguing solutions relevant to the needs of all of the services!
The Cyber domain contains to achieve greater importance in not only the national security domain but in all facets of society including the financial, health, and infrastructure sectors. As a result, there is a glut of options and capabilities coming to the forefront to manage and mitigate an ever increasing onslaught of attacks and threat vectors. This has led for a call to build integrated an integrated framework that effectively leverage the expanse of cyber tools as well as future capabilities – enter the Joint Cyber Warfighting Architecture (JCWA).

The U.S. Cyber Command’s JCWA is a concept to bring together existing cyber systems under development in the various military services into an integrated system of systems or unified platform. Cyber forces can then go into one platform to perform a wide range of tasks from training to accessing command and control decision systems. The JCWA is broken into five elements, which include common firing platforms for a comprehensive suite of cyber tools, a unified platform that will integrate and analyze data from offensive and defensive operations, joint command-and control mechanisms for situational awareness, sensors that support defense of the network and drive operational decisions, and a persistent cyber training environment.

This panel will bring together JCWA principals and explore how this concept is envisioned and moving forward.
Linking top talent with leading companies in the training, modeling and simulation community is what the I/ITSEC Career Days are all about. Firms across our industry are struggling to identify resources and fill positions while at the same time early career and transitioning veterans are looking for opportunities where they can make a real difference for the warfighter. During this event, a total of up to 30 companies will be available in person and online to interview candidate, answer questions, and fill jobs. Candidates will also have the opportunity to participate in workshops on topics such as resume writing, interviewing skills, and the state of the modeling and simulation industry. All candidates, both virtual and live, will have the opportunity to engage with all recruiters, both onsite and virtual. Recruiting organizations will be added to the website as they are confirmed. We look forward to seeing you.

**CAREER FAIR LIVE**
Wednesday, 1 December • 1200 – 1700 • Room 331C

**CAREER FAIR VIRTUAL**
Wednesday, 1 December (more details to follow)

Participating Organizations will be added as they are confirmed, please visit the I/ITSEC website for the most up to date information.
Digital Twin/Digital Engineering: Multinational Perspectives on Digital Engineering and the M&S Enterprise

MODERATOR
WINK BENNETT, PH.D.
711 Human Performance Wing,
Airman Systems Directorate,
Readiness Product Line Lead

PANELISTS
WIM HUISKAMP
Chief Scientist Modelling,
Simulation and Gaming
TNO Defence Research

JEAN-LUC GARNIER
Thales Research & Technology

RICK GRAVES
Air Vehicle Digital Engineering
Team Lead, Aerospace Systems
Directorate, U.S. Air Force
Research Lab

AGATINO MURSIA
Investments & Technology Plan
Governance, CTIO Leonardo
Electronics Division, ITA

ROXANNE CONSTABLE
Bioffects Division Senior Engineer/ Product Line Lead, Airman
Systems Directorate

The U.S. and our Multinational partners are investing heavily in the development of model-based systems engineering and digital engineering capabilities to increase their concept exploration agility and analyses of alternative potential solutions in very detailed software models as opposed to expensive hardware prototypes. This Focus Event will take a broad innovation application perspective on digital twinning and digital engineering, and will examine trends at the multinational level with several national use cases. Given the growing trend toward more model based engineering and exploration, it is clear that different national interests drive this trend in strikingly different and exciting ways. In many cases, remarkable efficiencies have been realized and the process of moving from digital models to actual fieldable hardware has substantially decreased the time from idea to actual fielding by several years! Several SMEs who are actively involved in their country’s digital engineering enterprise discuss their successes, challenges, and potentials for digital engineering today and in the near future.

Session Chair:
Gernai Bledsoe, USAF AFLCMC/WNS - Simulator Program Office
From the Trenches: An OTA Retrospective

MODERATOR
TARA KILCULLEN
Director, TReX Consortium
NSTXL

PANELISTS
JOHN T. McCABE
Branch Chief, U.S. Army
Contracting Command

DON WAGONER
Branch Chief, Charlie Division,
U.S. Army Contracting Command

NATHAN JONES
Government Solutions Architect
Problem Solutions LLC, An Allen
Interactions Company

HARRY BUHL
Program Manager, Emerging
Programs, Raytheon Technologies

IAIN SKEETE
Principal, Acquisition, NSTXL

The Training and Readiness Accelerator (TReX) Other Transaction Authority (OTA) has been executed by the Army’s PEO STRI for over 4 years with acquiring government customers ranging across the DoD spectrum. This event is intended to be a retrospective providing I/ITSEC participants an opportunity to engage directly with the Army TReX OTA government representatives from both PEO STRI and ACC-Orlando, as well as industry representatives who have direct experience working within the TReX OTA. The panelists each bring a unique perspective to the conversation. The discussion will also allow the government team to provide their views regarding how they see OTAs shaping the acquisition landscape, why they’re here to stay, what changes are happening, and how they see these effecting the future of TReX.
The Adaptive Instructional Systems (AIS) Consortium is non-profit industry alliance (US 501.c.6 – business association) formed under the IEEE Industry & Standards Organization (ISTO) in December 2020. The mission of the AIS Consortium is to promote the development and adoption of effective AIS solutions and to support the industry and organizations that produce them. This special event provides a unique opportunity to become situationally aware of the AIS marketplace and the industry and academic partners within the AIS Consortium who specialize in adaptive instructional products, services, and enabling capabilities (tools and methods). What is Adaptive Instruction? Adaptive instruction is any training or educational experience that is tailored to their capabilities, learning gaps, and interests of an individual learner or team of learners with the goal of optimizing the efficiency and effectiveness of their learning experience and transferring developed skills to operational environments. The members of the AIS Consortium include companies and universities in North America, Asia-Pacific, Europe, and the Middle East and is continuing to grow. The strength of the consortium is in the diversity of its members, the broad AIS marketplace (e.g., pre-K, K-12, adult learning, military training), and its open resource repository. The AIS Consortium Open-Source Resource Repository provides open access to tools that can be used for commercial development of adaptive instruction. In year one (2021), the consortium will be migrating an open source version of the well-known Generalized Intelligent Framework for Tutoring (GIFT) to support AIS development. Organizational memberships are available in the AIS Consortium (https://aisconsortium.com/membership/). Our members participate in outreach events (conferences, hack-a-thons), shared resource development (e.g., reference implementations), and certification methods and services for the evaluation of AIS standards and best practices.
NMSG and SISO Partnership in Simulation Interoperability Standards Development

MODERATOR
WIM HUISKAMP
Chief Scientist Modelling, Simulation and Gaming, TNO Defence Research; NATO M&S Group (NMSG) Scientific Advisor

PANELISTS
PATRICK ROWE
Executive Director, Simulation Interoperability Standards Organization (SISO)

GRANT BAILEY
Defence Modelling and Simulation Coherence (DMaSC) Technical Authority, UK MoD

BJÖRN MÖLLER
President and Co-founder, Pitch Technologies, Sweden

KATHERINE L. MORSE, PH.D., CMSP
Principal Professional Staff, Johns Hopkins University Applied Physics Laboratory (JHU/APL)

COLONEL KENNETH ‘CRASH’ KONWIN, USAF (RET.)
Program Manager, Booz Allen Hamilton

Standards provide interoperability and reduce time and cost to deliver effective solutions. This is especially true in areas like modeling, simulation, and training where a mix of existing and/or newly developed components often need to be integrated in a short timeframe.

M&S standardization leads from NATO and the Simulation Interoperability Standards Organization (SISO) will describe their standardization processes. You will hear from leads and proponents of three NMSG/SISO standards at different points in the standardization process—concept exploration for a new standard, a recently published standard, and a well-established, supported standard.

You will gain renewed appreciation for the value of standards and more in-depth understanding of how they are developed, adopted, supported, and maintained. If you attended the NMSG-SISO session last year, plan to attend again this year to get an update of NATO and SISO standards program information.
This event will provide an opportunity for I/ITSEC participants to engage directly with USMC and Navy leaders regarding current and planned activities related to the Live Virtual Constructive Training Environment and the Navy Continuous Training Environment (NCTE). Panelists will be Team Leads, Requirements Managers and Chief Technical Officers representing the Program Manager for Training Systems, Training and Education Command, Synthetic Training Integration Management Branch and NCTE Program Office. This panel discussion will enable the panelists to share their perspectives on the conference theme from their viewpoints.
Air Force Gaming & Esports Across the Military

GAMING & ESPORTS IN THE MILITARY

MODERATOR

CHIEF MASTER SERGEANT IAN EISHEN, USAF
Senior Enlisted Advisor, Air Force Gaming Senior Enlisted Leader, CSAF Strategic Studies Group

PANELISTS

CAPTAIN OLIVER PARSONS, USAF
Founder, Air Force Gaming Chief, Innovative Programs Branch

CAPTAIN ZACH BAUMANN, USAF
Co-Founder, Air Force Gaming AFPC Personnel Research Analyst

MASTER SERGEANT MARIO JARAMILLO, USAF
Operations Manager, Air Force Gaming & Innovative Programs Branch

TECHNICAL SERGEANT ERIN RICH, USAF
Sustainment Manager, Air Force Gaming & Innovative Programs Branch

IAN PIERCE
USAF Esports Manager, Air Force Gaming F-22 Crew Chief, Edwards Air Force Base, CA

ADAM ROSEN
Founder, Chief Executive Officer, Rally Cry

Air Force Gaming is a new program founded to digitally connect Airmen and Guardians through their shared love of gaming. Housed under the Air Force Services Center, AFG is focused on supporting the Department of the Air Force’s resiliency and retention efforts through the creation of a global esports effort that brings Airmen and Guardians together through community experiences and competitive leagues. AFG’s program is powered by Rally Cry, a company dedicated to delivering esports to everyone through recreational sports leagues for video games.

We invite all within the military community to stop by throughout the week to learn about gaming within the military and join us for some fun events. Visitors will be able:

- Learn about the important role of gaming within the service branches
- Watch epic esports competition between the military’s top players, including cross-branch competition
- Participate in daily challenges for gaming-related prizes
- Meet and connect with players from around the country

SCHEDULE

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<tbody>
<tr>
<td>MONDAY, 29 NOVEMBER</td>
<td>1400 – 1800</td>
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<td>WEDNESDAY, 1 DECEMBER</td>
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<td>WEDNESDAY AFG SPECIAL EVENT</td>
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The U.S. Army Medical Research and Development Command (USAMRDC) launched the xTech Brain Operant Learning Technology (xTechBOLT) prize competition offering $1 Million in prizes. xTechBOLT aims to understand the effects of emotion and empathy on learning and memory and the functional roles played by various brain regions and their mutual interactions in relation to emotional and empathetic processing and effect on both implicit and explicit learning outlining the use of one or more tools to locate, track, and trace four types of learning traits.

The goals for this competition are to understand the effects of emotion and empathy on learning and memory and the functional roles played by various brain regions and their mutual interactions in relation to emotional and empathetic processing and effect on both implicit and explicit learning. Understanding these effects will help build the United States Military of the future, by revolutionizing how we teach and train Warfighters, how we build better medical providers, and how we utilize novel brain operant learning technologies.

For more information on the xTechBOLT Prize Competition, visit our website at www.xtechsearch.army.mil
This Special Event will provide the latest information from the U.S. Air Force regarding acquisition initiatives, focus areas, and upcoming training systems acquisition actions. It will feature remarks from Colonel Lea Kirkwood, the Air Force Program Executive Officer (PEO) for Agile Combat Support (ACS). Col Kirkwood will share her perspective on the current state of the Air Force acquisition process along with ongoing initiatives, as they apply to the I/ITSEC community. Colonel John Kurian, the Senior Materiel Leader for the Simulators Division, will follow the PEO’s presentation. Col Kurian will provide an update on Air Force simulator business opportunities, as a follow on to the Simulation and Training Community Forum (STCF) held in August.

**U.S. Air Force Acquisition Update**

**Session Chair:** Brian Holmes, ManTech International Corporation

**TUESDAY 30 NOVEMBER 2021**

**1400-1530**

**ROOM 310AB**

**MODERATOR**

TRACY TITCOMBE, USAF
Engineering Section Chief, Foreign Military Sales Simulators Division

**PANELISTS**

COLONEL LEA KIRKWOOD, USAF (INVITED)
Program Executive Officer, Agile Combat Support Directorate

COLONEL JOHN KURIAN, USAF (INVITED)
Senior Materiel Leader, Simulators Division

**U.S. Marine Corps Acquisition Update**

**Session Chair:** Perry McDowell, MOVES Institute

**TUESDAY 30 NOVEMBER 2021**

**1600-1730**

**ROOM 310C**

**MODERATOR**

JOHN TAYLOR
Deputy Program Manager, Training Systems Marine Corps System Command

**PANELISTS**

COLONEL LUIS “LOU” LARA, USMC
Program Manager, Training Systems Marine Corps Systems Command

LIEUTENANT COLONEL JON MOHLER, USMC
Product Manager, Range Training Systems
Program Manager, Training Systems Marine Corps Systems Command

LIEUTENANT COLONEL TROY PETERSON, USMC
Product Manager, TS4
Program Manager, Training Systems Marine Corps Systems Command

ELIZABETH SHIRLEY
Product Manager, Synthetic Training Systems
Program Manager, Training Systems Marine Corps Systems Command
U.S. Army
PEO STRI I

Session Chair:
Tara Kilcullen, Training and
Readiness Accelerator, NSTXL

U.S. Army
PEO STRI II

Session Chair:
Mark Parsons, SAIC
INTERNATIONAL PAVILION

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 south concourse. International conference attendees’ meeting bags will be available for pick-up at the main registration desk this year. Other materials of interest for international attendees will be available in the International Pavilion.

INTERNATIONAL PAVILION HOURS OF OPERATION

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<td>Wednesday, 1 December</td>
<td>0800 – 1500</td>
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<tr>
<td>Thursday, 2 December</td>
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INTERNATIONAL RECEPTION

BY INVITATION ONLY

Join us for a reception that acknowledges your international participation at I/ITSEC and recognizes our Best from Around the Globe presenters. Check in the International Pavilion for information about the International Reception.
INTERNATIONAL EVENTS

SPECIAL EVENTS

WEDNESDAY, 1 DECEMBER • 0830 – 1000 • ROOM 310C • PAGE XX
Focus Event: Cloud Based Simulation Developments in Europe

THURSDAY, 2 DECEMBER • 1030 – 1200 • ROOM 329 • PAGE XX
Focus Event: Research Foundations and Findings Supporting Augmented and Virtual Reality (AR/VR) Implementation in the Wild

THURSDAY, 2 DECEMBER • 1400 – 1530 • ROOM 310C • PAGE XX
Focus Event: Digital Twin/Digital Engineering: Multinational Perspectives on Digital Engineering and the M&S Enterprise

TUTORIALS

FRANCE
MONDAY, 29 NOVEMBER • 0830 – 1000 • ROOM 329
21004 • TU7: EMPLOYING M&S • PAGE xx
An Introduction to RIEDP Concepts for Environmental Data Sharing

SWEDEN
MONDAY, 29 NOVEMBER • 1245 – 1415 • ROOM 320A
21019 • TU1: LVC 2 • PAGE XX
Introduction to HLA

PAPERS

CANADA
21173 • WEDNESDAY, 1 DECEMBER • 0830 • ROOM 320B
TRN3: AR/VR IS IT REAL...
Scanning Analysis of Novice and Experienced Hoist Operators: Simulation Using a Virtual Reality Hoist Training System

21354 • WEDNESDAY, 1 DECEMBER • 0900 • ROOM 320B
TRN3: AR/VR IS IT REAL...
Evaluating Human Performance in Offshore Oil and Gas Emergencies using Training Simulators

21270 • WEDNESDAY, 1 DECEMBER • 0930 • ROOM 320D
ED3: WIKIHOW: THE UNDERPINNINGS OF AUTOMATED ASSESSMENT
How To Build Adaptive Training Ahead A Future of Uncertainty

21267 • THURSDAY, 2 DECEMBER • 0830 • ROOM 320D
ED6: SCAFFOLDING THE FUTURE: CONTESTED AND COMPLEX BATTLESPACE
Case Studies: Ensuring Objective, Consistent, and Actionable Evaluation of Simulation

GERMANY
21159 • TUESDAY, 30 NOVEMBER • 1630 • ROOM 320C
SIM2: GLOBALLY ORIENTED AUGMENTED TRAINING AND SIMULATION Logistic Support to Support Military Rescue Chains

21111 • WEDNESDAY, 1 DECEMBER • 1130 • ROOM 320C
ECIT 5: UNDER THE HOOD
Blockchains for Achieving Data Awareness and Enabling Data Sharing

21241 • WEDNESDAY, 1 DECEMBER • 1130 • ROOM 320A
ECIT 4: DATA ARCHITECTURE FOR TOMORROW’S ANALYTICS Streamlining 3D Data Integration with Standardized Web APIs

21238 • WEDNESDAY, 1 DECEMBER • 1700 • ROOM 320B
TRN5: TRAINING ENHANCEMENT THROUGH DATA ANALYTICS
Providing Better Feedback to Aviators through Automated Human Performance Analysis

NETHERLANDS
21143 • THURSDAY, 2 DECEMBER • 1430 • ROOM 320A
ECIT 10: AI AND IT’S APPLICABILITY FOR SIMULATIONS
Enhancing Operations by Applying Constructive Simulation and Artificial Intelligence

NORWAY
21132 • WEDNESDAY, 1 DECEMBER • 1600 • ROOM 320D
TRN4: LEARNER-CENTERED TRAINING IN DEFENSE
Personalisation of Learning: Developing the Case for Implementation within Defence Learning Establishments

21254 • THURSDAY, 2 DECEMBER • 0930 • ROOM 320E
PSMA5: TAKING THE GUESSWORK OUT OF ROI
Business Challenges Faced by Modelling and Simulation Defence Cloud Systems