

# Congressional Modeling and Simulation Event

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

MONDAY, 27 NOVEMBER  
1030 – 1200 • ROOM S330BCD  
SE1

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 new leadership of the 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. This event is always standing room only, so get there early.

The following members of Congress have been invited to address the M&S Community at I/ITSEC:



**Bobby Scott\***  
Caucus Chair  
Virginia 3rd  
District



**Stephanie Murphy\***  
Caucus Co-Chair  
Florida 7th  
District



**John Rutherford\***  
Caucus Co-Chair  
Florida 4th  
District



**Scott Taylor\***  
Caucus Co-Chair  
Virginia 2nd  
District

**Robert Aderholt\***  
Alabama 4th District

**Gus Bilirakis\***  
Florida 12th District

**Diane Black\***  
Tennessee 6th District

**Jim Bridenstine\***  
Oklahoma 1st District

**Mo Brooks\***  
Alabama 5th District

**Vern Buchanan\***  
Florida 16th District

**Ken Calvert\***  
California 42nd  
District

**John Carter\***  
Texas 31st District

**Steve Cohen\***  
Tennessee 9th District

**Mike Conaway\***  
Texas 11th District

**John Cornyn**  
Texas

**Ted Cruz**  
Texas

**Susan Davis\***  
California 53rd District

**Blake Farenthold**  
Texas, 7th District

**Dianne Feinstein**  
California

**Virginia Foxx\***  
North Carolina 5th  
District

**Duncan Hunter**  
California 50th District

**Tim Kaine**  
Virginia

**Doug Lamborn\***  
Colorado 5th District

**Ed Markey**  
Massachusetts

**Bill Nelson**  
Florida

**Scott Peters\***  
California 52nd  
District

**Bill Posey\***  
Florida 8th District

**Tom Rooney\***  
Florida 17th District

**Marco Rubio**  
Florida

**C.A. Dutch  
Ruppersberger\***  
Maryland 2nd District

**Richard Shelby**  
Alabama

**Niki Tsongas\***  
Massachusetts 3rd  
District

**Tim Walz\***  
Minnesota 1st District

**Mark Warner**  
Virginia

**Elizabeth Warren**  
Massachusetts

**Joe Wilson\***  
South Carolina 2nd  
District

**Robert Wittman\***  
Virginia 1st District

*\*denotes members of the  
Congressional M&S Caucus*



*Congressman Scott addresses the audience and visits the exhibit floor during I/ITSEC 2016.*





# Operation Blended Warrior

LEARN HOW AND WHY LVC TODAY IS NOT AS EASY AS “PLUG AND PLAY”

MONDAY, 27 NOVEMBER

1430 – 1600

*Interoperability Data Management*

TUESDAY, 28 NOVEMBER

1530 – 1700

*Live Asset Integration*

*Cyber*

WEDNESDAY, 29 NOVEMBER

1000 – 1130

*Coalition Support Multi-Level*

*Security*

WEDNESDAY, 29 NOVEMBER

1500 – 1630

*Dense Urban Areas*

*Performance Measurement*

THURSDAY, 30 NOVEMBER

1000 – 1130

*Gaming Solutions*

*Interoperability*

BOOTH 449 AND OTHER

FLOOR LOCATIONS

SE2



PERFORMANCE MEASUREMENT, DENSE URBAN AREAS, CENTRALIZED DISTRIBUTION



MULTI-LEVEL SECURITY, COMMERCIAL GAMING SOLUTIONS, LIVE ASSET INTEGRATION

## LVC IS VITAL TO MISSION SUCCESS!

2017 marks the third year for the Special Event, Operation Blended Warrior (OBW). This year, we will create a unique Live-Virtual-Constructive (LVC) environment in order to showcase issues, challenges and solutions associated with implementing LVC capabilities into our training systems. LVC is a critical requirement for our Warfighters to meet operational requirements.

We have over 40 industry and government participants working together across a variety of operational mission sets in the following domains: air, cyber, ground, and maritime. The efforts from this year's event are critical to defining the standards and requirements for future development of LVC initiatives.

During each OBW time slot, you'll see industry showcase some of the latest LVC capabilities across a wide range of operational missions from Booth 449 (a Command Center perspective) – or visit industry members in their booths to talk to them and see the capability from the operator's perspective.

## WHY OPERATION BLENDED WARRIOR?

Over the years there has been a lot of progress in the individual disciplines (Live, Virtual Constructive), but there hasn't been a lot of progress in the rapid integration of all three. Operation Blended Warrior aims to address this through a four year special event, each year adding scope and complexity while identifying big challenges and driving down planning time and costs.

Check your Meeting Bags or stop by Booth 449 for a full listing of the participants and the programs to be demonstrated.



# General/Flag Officer Panel



SIGNATURE EVENT

TUESDAY, 28 NOVEMBER  
1030 – 1200  
HYATT REGENCY  
REGENCY BALLROOM  
SE3

## Moderator

**Rear Admiral James A. Robb, USN (Ret.)**

President, National Training and Simulation Association

## Panelists

**Fred Drummond, SES**

Deputy Assistant Secretary of Defense (Force Education and Training)

**Vice Admiral Paul A. Grosklags, USN**

Commander, Naval Air Systems Command

**Lieutenant General Michael D. Lundy, USA**

Commanding General, U.S. Army Combined Arms Center and Fort Leavenworth, KS

**Major General Scott F. Smith, USAF**

Director of Training and Readiness, Deputy Chief of Staff for Operations

**Major General Kevin Iiams, USMC**

Commanding General, Training and Education Command (TECOM)

**Brigadier General Henrik Sommer, DNK A**

Supreme Allied Commander Transformation, Assistant Chief of Staff, Capability Engineering and Innovation



RADM Robb, USN (Ret.)



Mr. Drummond, SES



VADM Grosklags



LTG Lundy, USA



Maj Gen Smith, USAF



MajGen Iiams, USMC



BG Sommer, DNK A

Global forces continue to be challenged by erratic budgets and expanding threats. Services continue to engage a wide range of threats that span from disaster assistance to nation state aggression and on to rogue nation antagonism. Nations continue to deal with the effects of mass migration from the Middle East and cyber-attacks on all of our systems. Our Senior Officer panel will be asked to address current and future environments while they discuss this year's conference theme - "Harnessing New Technology To Win in a Complex World". This year's panel will include senior representatives from all the U.S. Military Services and NATO. Following opening remarks, the audience will be able to interact with the panel through written questions. Don't miss the opportunity to hear from national leaders on the way ahead.





# Cyber Operations in a Complex World

## EMBRACING THE CYBER FRONTIER

TUESDAY, 28 NOVEMBER  
1400 – 1530 • ROOM S330BCD  
SE4

### Moderator

**Colonel Richard Haggerty, USA**  
U.S. Army PEO STRI, PM  
ITTS

### Panelists

**James McStravic, SES**  
Performing the Duties of  
Under Secretary of Defense  
Acquisition, Technology &  
Logistics

**Major General Patricia Frost, USA**

Director of Cyber, Office of  
the Deputy Chief of Staff,  
G-3/5/7, U.S. Army Cyber  
Command

**Ronald Pontius, SES**  
Deputy Commanding  
General, U.S. Army Cyber  
Command

**Rear Admiral Dave  
Dermanelian, USN**  
Director of Training and  
Exercises (J7), U.S. Cyber  
Command

**Derrick Hinton**  
Acting Director, Test  
Resources Management  
Center

**Mike Macedonia, Ph.D.**  
Assistant Vice President for  
Research and Innovation,  
University of Central Florida



Cyber epitomizes this year's I/ITSEC theme — *Harnessing New Technologies to Win in a Complex World*. From Russia's synchronization of cyber operations to kinetic warfare in Estonia and the Ukraine, to North Korea's hacks of the Sony corporation and private emails to influence U.S. economic activities, to alleged Russian influence in the 2016 Presidential election, cyber plays a major role across the various domains (Air, Land, Maritime, Space and Industrial). Cyber is complimentary to the elements of national power (diplomacy, information, military, and economic) and its influence is magnified as the population becomes increasingly more connected. In their May 2017 Wi-Fi Risk Report, Norton by Symantec estimates that more than half of consumers globally (55 %) wouldn't think twice about exchanging, sharing or even doing something risky to get a strong Wi-Fi signal.

The Cyber Operations in a Complex World executive panel brings together key leaders from Industry, Congress, Academia, and the Department of Defense to discuss the tough issues associated with cyber, including policy, training, talent management, and education.

Session Chair:  
Lisa Jean Bair, SAIC



# Human-in-the-Loop Simulators for Test and Training

## MODELING AND SIMULATION FOR TESTING AND TRAINING — COMMON TOOLS FOR COMMON GOALS

TUESDAY, 28 NOVEMBER  
1600 – 1730 • ROOM S320GH  
SE5

### Moderator

**Kristen Alexander, Ph.D.**  
Technical Advisor, Land and  
Expeditionary Warfare  
Director, Operational Test  
and Evaluation

### Panelists

**Lieutenant General Michael  
Lundy, USA**

Commanding General,  
U.S. Army Combined  
Arms Center and Fort  
Leavenworth, KS

**Major General Matthew Molloy,  
USAF**

Commander, Air Force  
Operational Test and  
Evaluation Command  
(AFOTEC)

**Rear Admiral Paul Sohl, USN**

Commander, Operational  
Test and Evaluation Force  
(COTF)

**Steve Griffin**

Senior Manager Defense  
Support Services, The Boeing  
Company



All DoD weapon systems must be tested, many using modeling and simulation suites. To accurately represent the operational capability of weapon systems, the effects of human operators (human-in-the-loop simulation) must be accounted for. Historically, the training community has developed its own modeling and simulation tools to support training objectives. This panel will discuss the need for such modeling and simulation suites for testing and training and looks to explore ways in which existing human-in-the-loop training systems might be leveraged for use in operational testing and provide a high-fidelity leave-behind for the training community.

During this event, the Commanders of the Services' Operational Test Agencies will present their perspectives on the challenges and requirements for the use of human-in-the-loop simulations during operational testing. The Commanding General of the Army Combined Arms Center will provide a perspective on the need for simulation to support training. Industry test leadership will present challenges producing simulators that are adequate for both testing and training.

Session Chair:  
Robbie Robson, Eduworks



SIGNATURE EVENT



# Global GO/FO Perspectives in Learning

## MANY PERSPECTIVES, ONE MESSAGE: LEARNING QUALITY FOR TRAINING AND EDUCATION TECHNOLOGIES

WEDNESDAY, 29 NOVEMBER  
0830 – 1000 • ROOM S330BCD  
SE6

### Moderator

**Sae Schatz, Ph.D.**

Director, Advanced Distributed Learning Initiative, Office of the Deputy Assistant Secretary of Defense for Force Education and Training

### Panelists

**Major General Anders Callert**

Assistant Chief of Armed Forces Training and Development, Chief of Training, Sweden

**Major General Thomas Deale, USAF**

Vice Director for Joint Force Development, Joint Staff, United States

**Rear Admiral Timo Junttila**

Deputy Chief of Staff, Personnel, Finland

**Air Vice-Marshal C J Luck**

The Commandant, Joint Services Command and Staff College, Defence Academy of the United Kingdom

**Brigadier General Athanasios Tsouganatos**

Assistant Chief of Staff, Joint Education, Training & Exercises, NATO

**Brigadier General Virginia Tattersall**

Deputy Commander, Military Personnel Generation, Canadian Armed Forces

**Major General Mladen Vuruna**

Rector, University of Defense, Serbia



MG Callert  
Sweden



Maj Gen Deale  
United States



RADM Junttila  
Finland



AVM Luck  
United Kingdom



BGen Tsouganatos  
NATO



BGen Tattersall  
Canada



BG Vuruna  
Serbia

Training and education technologies have amazing promise; however, without the guiding blueprint of learning science, technological solutions can become costly, cumbersome, and ineffectual. At worst, technologies may be seen as “silver bullets” or magical solutions, capable of solving training or education challenges by simply purchasing the latest systems (a road that leads to disillusionment, waste, and potentially expensive failure).

Modeling, simulation, training, and education professionals know better. Subject matter experts realize that effective learning technologies can only realize their promise when implemented smartly—with well-designed instructional content, intentional performance assessment, and thoughtful learning strategies. This panel brings together senior personnel from across the Coalition military enterprise to convey this important, shared message. That is:

Learning *technologies*, alone, will not solve our training and education challenges. Only when consistently paired with learning *science* will we realize the benefits of these advanced systems.

This special event will include a moderated panel discussion, beginning with short individual statements from the General and Flag Officer participants. The speakers will each discuss an aspect of their shared message, from their own perspectives. Following this, the audience will be invited to offer questions.



Session Chair:  
Benjamin Bell, Ph.D., Eduworks



# Warfighter Decision Superiority

## SUPERIOR HUMAN PERFORMANCE THROUGH HIGH VELOCITY LEARNING

WEDNESDAY, 29 NOVEMBER  
1030 – 1200 • ROOM S330BCD  
SE7

### Keynote

**Admiral Bill Moran**  
Vice Chief of Naval  
Operations



ADM Moran, USN



VADM Grosklags, USN



RADM Cozad, USN



RDML Cheever, USN

### Panelists

**Vice Admiral Paul A. Grosklags**  
Commander, Naval Air  
Systems Command

**Rear Admiral Kyle Cozad**  
Commander, Naval  
Education and Training  
Command

**Rear Admiral Daniel L. Cheever**  
Commander, Naval Aviation  
Warfighting Development  
Center

Technological innovation continues to be an important defense advantage for the United States Navy. In this special event, Navy leaders will discuss the critical importance of having the best-prepared fighting force in the world. This year's I/ITSEC theme, "Harnessing New Technologies to Win in a Complex World" highlights how the Navy applies the latest learning innovations to hone the human performance of our warfighters to further our asymmetrical advantage against rapidly evolving potential adversaries.

The United States Navy is a force that is forward, engaged and ready. In the face of any potential opponent, it is the readiness of our personnel – their ability to make sound decisions under pressure – that will provide our greatest warfighting advantage. Because highly-skilled warfighters are able to make superior decisions and perform their missions better, training sits at the very core of naval readiness. Simply put, training is one of the most effective tools available to guarantee that our Sailors remain America's greatest asymmetrical advantage. To that end, the Chief of Naval Operations, Adm. John M. Richardson called for the fleet to achieve "high velocity learning" at every level. High velocity learning methods enable Sailors to quickly learn the skills they need, when they need them, and without the inefficiencies of traditional learning methods.

The United States maritime strategy calls for the sea services to "create a true learning competency that unites our acquisition, requirements, and programming efforts to deliver the latest in technology and design, resulting in realistic simulation and live, virtual, and constructive scenarios before our people deploy..." It is understood that high-quality training is an investment in improving the human performance of our warfighters, but in developing training we also have the responsibility to make affordability a priority throughout the training system cycle of research, development, acquisition and sustainment. To remain flexible, agile and ready, our Navy seeks out and employs innovative training methods to train Sailors more efficiently and to ever-higher levels of proficiency.

At the same time, the Navy taking efforts to prevent inefficiencies both in the training pipeline and in the training acquisition process. For the Navy a key measure in deciding whether to invest in a new training technology is to ask whether it will make the force more lethal. The Navy does not have the luxury of investing in anything that does not make the force stronger. As the Chief of Naval Operations said to senior Navy leaders, "If it's not making our Navy and Marine Corps more lethal... stop doing it." Efforts like "Sailor 2025," which will educate Sailors more efficiently than ever before, ensure that the Navy is making meaningful strides toward modernizing training efforts while creating a more lethal force.

The sea services of the United States are critical to defending the nation's security around the globe. The Sailors who serve today are a well-trained force, 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 effective and relevant training optimizes the human performance of U.S. Navy Sailors so that they can be counted upon to make superior decisions in the face of pressure. Sailors with superior training are an essential component of maintaining maritime superiority, now and in the future.

Session Chair:  
Sherry Steward, NAWCTSD



SIGNATURE EVENT





# International Collaboration 2017

## IDENTIFYING ISSUES AND EXPLORING SOLUTIONS

WEDNESDAY, 29 NOVEMBER  
1400 – 1530 • ROOM S330BCD  
SE8

### Moderator

#### Al Shaffer

Director, Collaboration  
Support Office, NATO  
Science and Technology



BG Daniel  
United Kingdom



BG Jung  
Republic of Korea



Dr. Crain  
United States



CDRE Norris  
Australia

### Panelists

#### Brigadier General James Daniel

Head, Soldier, Training &  
Special Programmes (STSP),  
United Kingdom MOD

#### Brigadier General Gyungwon Jung

Director, Center for Army  
Analysis and Simulation,  
Republic of Korea

#### Forrest Crain, Ph.D.

Director, Center for Army  
Analysis and Director, Army  
Modeling and Simulation  
Office, U.S. Army

**Commodore Allison Norris,**  
Director General, Australian  
Defence Simulation and  
Training Centre

There are enduring issues that many nations continue to face when working internationally. While these interoperability and integration issues are being resolved in the host countries, we have yet to realize a comprehensive international solution to achieving collaboration on M&S tools and technologies, for either government or industry. One notable example relevant to modeling and simulation is the limitation caused by a lack of a solution to multi-level security across partner nations, which presents challenges in terms of sharing data, applications, algorithms, and standards. What are some of the other collaboration issues facing our international partners?

The Panel will be comprised of senior International participants who will:

- 1) Tee up their top barrier to better collaborate in modeling and simulation, and
- 2) Offer an approach (including any possible non-proprietary capability that can be shared) to address the same or another issue.

The ensuing discussion will seek questions and ideas from the audience to both better define and mitigate the challenges.

Interest by current Industry and Government partners can focus on real world operational and training issues within and outside of the M&S community. The resulting benefit of fostering collaboration among partner nations can lead to continuing discussion at other NDIA and NTSA events.

Session Chair:  
Craig Langhauser, Rockwell  
Collins





WEDNESDAY, 29 NOVEMBER  
1400 – 1530 • ROOM S320GH  
SE9



**I/ITSEC 2017 Fellow**  
**Henry C. “Hank” Okraski**



Henry C. “Hank” Okraski served 32 years as a government engineer/manager/executive. As a Senior Executive, he was the Director of Research and Engineering, Deputy Technical Director and Chief Scientist at the Naval Air Warfare Center Training Systems Division. He is a founding member of the National Center for Simulation (NCS) and was inducted into the NCS M&S Hall of Fame in 2014. He developed and implemented a high school curriculum and the nation’s first certification in Modeling and Simulation (M&S) for high school and technical school students. He was selected Federal Engineer of the Year by the National Society of Professional Engineers. Mr. Okraski has a bachelors degree in electrical engineering from Clarkson University and a masters degree in systems engineering from the University of Florida, and is the author of “The Wonderful World of Simulation.”

As the 2017 I/ITSEC Fellow, Mr. Okraski takes readers on a journey of his experiences and education in the simulation and training world, both as a member of industry and as a Government employee. Throughout this journey, he informs readers of the important lessons learned, giving an outstanding insight into how this industry has evolved throughout his lifetime.

#### Key quotes from “Remembrances of a Simulationist: An Exciting Career of ‘Make Believe’”

*“The importance of synthetic training was recognized in 1934 by the U.S. Army Air Corps, when they assumed the responsibility for air mail delivery. When visibility was poor, pilots would have to rely on instruments and the current cadre of about 100 pilots were ill-equipped to fly by instruments alone. Several of the military aircraft crashed in bad weather. An emergency appropriation of funds was approved by Congress and the President. The first 6 Link Trainers were delivered and a new industry was born (Kelly).”*

*“The base facilities were old, built in the 1940’s for the Army Air Corps, and many buildings were without reliable air conditioning. Orlando was a small town in the orange groves at the time, before the Disney presence, with few technology firms in the area. The Martin Company was the only major contractor in Central Florida and was primarily in the missiles business. The company had a simple helicopter trainer, a testbed for research with a giant model board used for cockpit visual display experiments. The politics leading to the decision to move the approximately 1,100 Navy and Army personnel from Long Island to Orlando was intense and complex but that decision led to the creation of a national asset ‘The Center for Modeling & Simulation’ in Central Florida.”*

*“We moved to special-purpose computers that were expensive, some using machine language and difficult to program. Then came FORTRAN and multi-purpose computers that facilitated software development and modifications. The DoD language of choice became ADA, causing our industry to ‘re-tool’ software development. In spite of the entire industry, including the commercial computer developers, moving to C Plus and C Plus Plus, DoD stood steadfast on ADA as the software requirement. This was costly and really unnecessary.”*

Session Chair:  
Mike Genetti, Ph.D., Rockwell  
Collins Simulation & Training  
Solutions



# Narratives in Information Warfare

PREPARING TO FIGHT AGAINST, WITH, AND THROUGH NARRATIVES

WEDNESDAY, 29 NOVEMBER  
1600 – 1730 • ROOM S320GH  
SE10

## Moderator

**Shep Barge, Ph.D.**

Director, Joint Assessment  
Enabling Capability, Office  
of the Deputy Assistant  
Secretary of Defense for  
Force Education and Training

## Panelists

**Gregory C. Radabaugh, SES**

Director, Joint Information  
Operations Warfare Center,  
Joint Staff

**Richard Boyd**

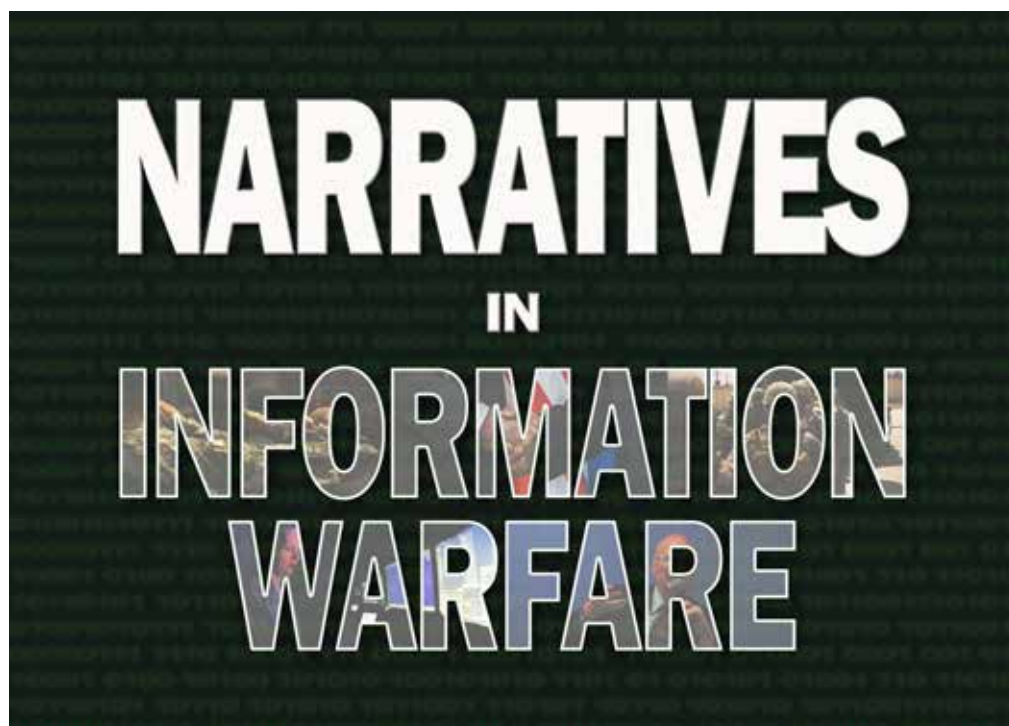
Founder and CEO, Tanjo, Inc.

**Christopher Paul, Ph.D.**

Senior Social Scientist,  
RAND Corporation

**Scott W. Ruston, Ph.D.**

Research Scientist, Global  
Security Initiative, Arizona  
State University



With the advancements in technology today the speed of information flow has never been faster. The general public has become increasingly aware of the impact of how information is received and interpreted, through media and information campaigns. Recent world events have demonstrated how a narrative can be weaponized.

Understanding how narratives are created and how they influence behavior is just one discussion topic for this panel. We need to understand how best to train our warfighters to win in this new and complex battlefield: the information environment.

The Chairman of the Joint Chiefs of Staff has established Information as a new joint function in military doctrine (in addition to Command & Control, Intelligence, Fires, Movement & Maneuver, Protection, Sustainment), taking action to provide strategic guidance in the employment of Information.

To explore how we can better provide our warfighters with the means to understand, train, and win in this new, complex battlefield, this panel seeks to bring together:

- The science of how our warfighters and adversaries create and respond to narratives,
- Current initiatives within the Department of Defense to conduct operations in the Information Environment, and
- Technology and Industry insight on understanding and employing narratives.

Session Chair:  
Robert Snyder, Whitney Bradley  
and Brown Inc.



# Black Swan-A Blast to the Past

## TECHNOLOGY-CRIPPLING SOLAR FLARE COULD SEND OUR USE OF ELECTRONICS BACK TO THE 1800s!

WEDNESDAY, 29 NOVEMBER  
1600 – 1730 • ROOM S330BCD  
SE11

### Moderator

**Brigadier General William E. Cole, USA**  
Program Executive Officer,  
U.S. Army PEO STRI

### Panelists

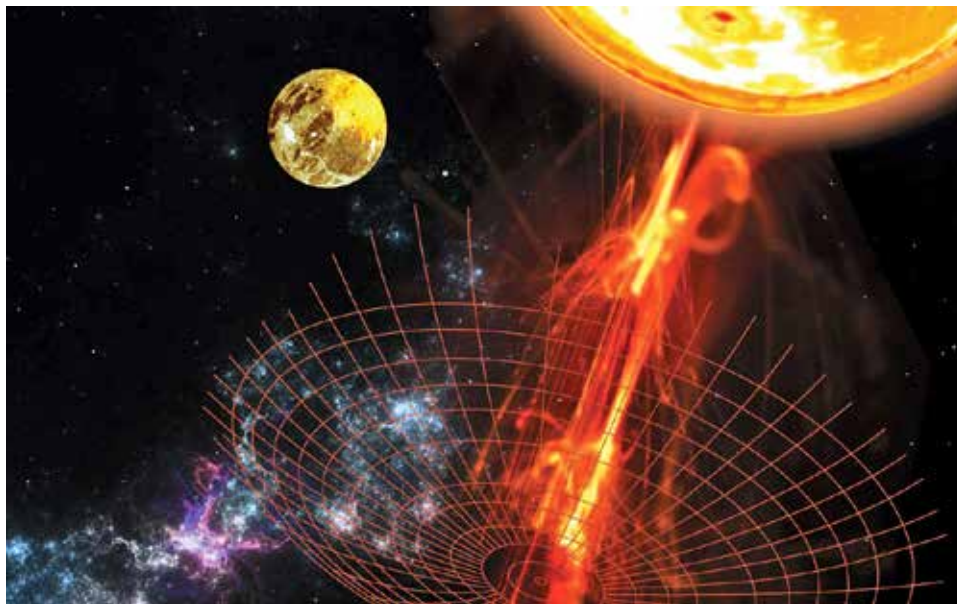
**Patrick J. Baker, Ph.D., SES**  
Director, Survivability  
Lethality Analysis  
Directorate, U.S. Army  
Research Laboratory

**Peter W. Schuck, Ph.D.**  
Space Weather Laboratory,  
Heliophysics Science  
Division, NASA Goddard  
Space Flight Center

**Michael Simone Ph.D.**  
Professor and Director  
of the Nexus Laboratory  
for Transdisciplinary  
Informatics, Arizona State  
University

**Captain John Ross**  
Space Weather Operations  
Center, USAF 2nd Weather  
Squadron, Offutt AFB

Session Chair:  
Fred Fleury, ZedaSoft



Continuing our Black Swan series of panel discussions, we propose the scenario of a Coronal Mass Ejection (CME) and its solar geomagnetic storm hitting the earth and affecting our space and terrestrial communication systems. It is predicted that once the CME is detected we will have between one and four days to prepare for the electro-magnetic pulse (EMP) effects created by this solar event. Based on the similar Carrington event in 1859, it is estimated that this EMP would cause widespread electrical outages as well as damage to electrical circuitry on most communications devices and satellites.

We have brought together a panel of military and academic experts to discuss the broad technical and societal challenges in dealing with this type of event. Their modeling techniques and outcomes will be discussed as well as their plans to make our infrastructure and society more resilient to these effects.

If you are new to this special event, 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 as a means to be resilient to future events. We believe that modeling and simulation can play a major part in exploring these events in a very cost effective manner.

Please join us for this engaging session!



SIGNATURE EVENT

# Small Business Senior Executive Leadership Panel

## SMALL BUSINESS BIGWIGS – INITIATIVES AND INSIGHTS

MONDAY, 27 NOVEMBER  
1400 – 1530 • ROOM S329  
FE1

### Moderator

**Leslie Faircloth**

Deputy Associate Director,  
NAWCTSD Office of Small  
Business Programs

### Panelists

**Emily D. Harman, SES**

Director, Office of Small  
Business Programs,  
Department of Navy

**Tommy Marks, SES**

Director of the Department  
of the Army Office of Small  
Business Programs

**Valerie L. Muck, SES**

Director of Air Force Small  
Business Programs

**Joyce L. Thurmond**

Deputy Area Director and  
Atlanta Metro Area Senior  
Procurement Representative  
(PCR), U.S. Small Business  
Administration



Ms. Harman, SES



Mr. Marks, SES



Ms. Muck, SES



Ms. Thurmond

The U.S. Government offers small businesses a variety of programs to help them succeed. For small businesses considering doing business with the government, this panel offers a rare opportunity to interact directly with senior small business leaders from Army, Navy, Air Force and the U.S. Small Business Administration.

The panelists will highlight their strategic initiatives, recommendations and insights into how small businesses can best bring their technologies to bear in support of the various DoD agencies. The speakers will each provide their perspectives and answer questions on the utilization of small business technologies as it applies to their respective organizational missions. Attendees are encouraged to engage directly with the panel members to maximize this information rich event.

Relevant topics include:

- How small business inclusion can lead to better, faster, innovative and affordable solutions for our warfighters
- How to leverage Small Business Innovative Research (SBIR)/Small Business Technology Transfer (STTR), Rapid Innovation Fund (RIF) and Other Transaction Authority (OTA) tools to deliver technology gap solutions
- How to utilize various mentor-protégé programs as a mechanism to boost small business capabilities
- How to implement subcontracting improvements and more

This panel is open to anyone who wants to learn more about how small businesses can thrive while doing business with the government.

Session Chair:  
Carly Galloway, NAWCTSD



# Open Source Software: A Debate

INFORMATION WANTS TO BE FREE...BUT SHOULD IT BE!?

TUESDAY, 28 NOVEMBER  
1400 – 1530 • ROOM S320GH  
FE2

## Moderator

**Sae Schatz, Ph.D.**  
Director, Advanced  
Distributed Learning  
Initiative, Office of the  
Deputy Assistant Secretary of  
Defense for Force Education  
and Training

## Panelists

**CAPT David Herschel, USN**  
Director, Program and  
Budget, Office of the  
Assistant Secretary of  
Defense (Readiness),  
Readiness Programming and  
Resources

**Laura Gerhardt**  
Innovation Specialist,  
Technology Transformation  
Service Office of  
Acquisitions, U.S. General  
Services Administration

**Jeffrey A. Raver**  
Vice President and Director  
of Education and Training  
Services, SAIC

**Mike van Lent, Ph.D.**  
CEO and President, Soar  
Technology, Inc.

*information wants to be free*



Open-source software\* is growing at a profound rate. The most recent Open Source 360° Survey found that nearly 60% of businesses use it, and open-source code makes up 80–90% of most software applications developed.

On the positive side, open-source frees organizations from the costs of licensed software and helps prevent “vendor-lock.” Healthy open-source communities also ensure software is continuously updated, and organizations using open software can initiate their own, personal modifications as needed. Despite these benefits, open source remains controversial. Is this model sustainable? How cyber-secure is open source? Should military and government encourage, tolerate, or limit their use of open-source?

This exciting special event uses a debate format to explore the utility, sustainability, security, and role of open-source software, and its cousin open content (e.g., shared instructional materials), within military and government contexts. Two teams will argue for or against open source, providing a unique exploration of this important topic.

*\*“Open-source software” is developed in the open, with the source code available for anyone to inspect, modify, and use. This is in contrast to “proprietary” or “closed source” software, which is legally owned, maintained, and sold by an individual or corporation.*

Session Chair:  
Phil Brown, D.M., NORAD-  
USNORTHCOM



# Augmented Reality/Virtual Reality (AR/VR) in Navy Training

## HERE TO STAY: USES OF VIRTUAL AND AUGMENTED REALITY FOR FUTURE NAVAL TRAINING

TUESDAY, 28 NOVEMBER  
1600 – 1730 • ROOM S330BCD  
FE3

### Moderator

**CDR Henry Phillips, USN, Ph.D.**  
Military Director for Research  
& Engineering, NAWCTSD

### Panelists

#### Courtney McNamara

Senior Computer Scientist,  
Principle Investigator and  
Advanced Gaming Interactive  
Learning Environment  
(AGILE) Team Lead,  
NAWCTSD

#### Heather Priest, Ph.D.

Senior Research Psychologist  
and Multi-Integrated Systems  
and Teams Lab Lead,  
NAWCTSD

#### David Wieselthier

Senior Visual Engineer,  
NAWCTSD

#### Roger McPherson

Program Manager 07TR,  
NAVSEA

#### CDR Chris Foster, USN, Ph.D.

Aviation Warfare Training  
Development (AWTD)  
Integrated Product Team  
Lead, PMA-205 Aviation  
Training Systems



This year's conference theme, "Harnessing New Technologies to Win in a Complex World" shines a spotlight on the potential represented by emerging AR/VR capabilities.

The burgeoning commercial market of VR and AR technologies and their applications is changing the discussion about how, when, and where we can affordably and effectively train warfighters. There is a consistent stream of new developments, improvements, tools, and practical use cases that indicate these technologies are likely here to stay, and will continue to evolve becoming part of peoples' mainstream lives. The current cycle of technology roll-out has not been without its problems, but the speed of its evolution, expanding quantity of market players, and significantly reduced cost buy-in relative to past false starts is markedly improved.

The technologies without question have the potential for lasting, profound impacts on naval training, enabling and enhancing training that might otherwise be unavailable or unaffordable—but only if the technology is implemented in the right places, and in the right ways, informed by science, with the ultimate goal of optimizing the human performance of Sailors and Marines. We must be mindful and not rush to use AR and VR everywhere simply because we think we can. Navy stakeholders and labs across the DoD are investigating the training requirements that can be met or enhanced using these capabilities, the challenges of their deployment, and even more importantly, what their current limitations are. Traditional technologies will continue to play a role as the naval training community adopts these new, rapidly evolving delivery methods, but what important lessons must we avoid relearning with the advent of these new tools?

The new, lower cost tools of VR and AR have tremendous potential to help improve how we train and support warfighters and teammates throughout the Fleet. There will be sprints, leaps, and inevitably some less than ideal outcomes with new lessons learned. The good news is that we can minimize the occurrence of negative outcomes by always asking and answering the right questions upfront before incorporating these technologies into training so that they yield meaningful benefits in improving human performance. This panel will highlight and explore the opportunities and limitations of VR and AR training delivery.

Session Chair:  
**Aerial Kreiner, Ph.D., Air Force**  
Research Laboratory



# Cloud-Based Simulation: Hype or Reality?

## OPERATIONAL READINESS OF MODELING & SIMULATION AS A SERVICE

WEDNESDAY, 29 NOVEMBER  
0830 – 1000 • ROOM S320GH  
FE4

### Moderator

**Robert Siegfried, Ph.D.**  
Managing Director, aditerna  
GmbH

### Panelists

**Brigadier General Henrik Sommer, Denmark**  
Assistant Chief of Staff  
Capability Engineering &  
Innovation, Headquarters  
Supreme Allied Commander  
Transformation (SACT)

**Colonel Joseph Nolan, USA**  
Deputy Director, U.S. Army  
Modeling and Simulation  
Office (AMSO)

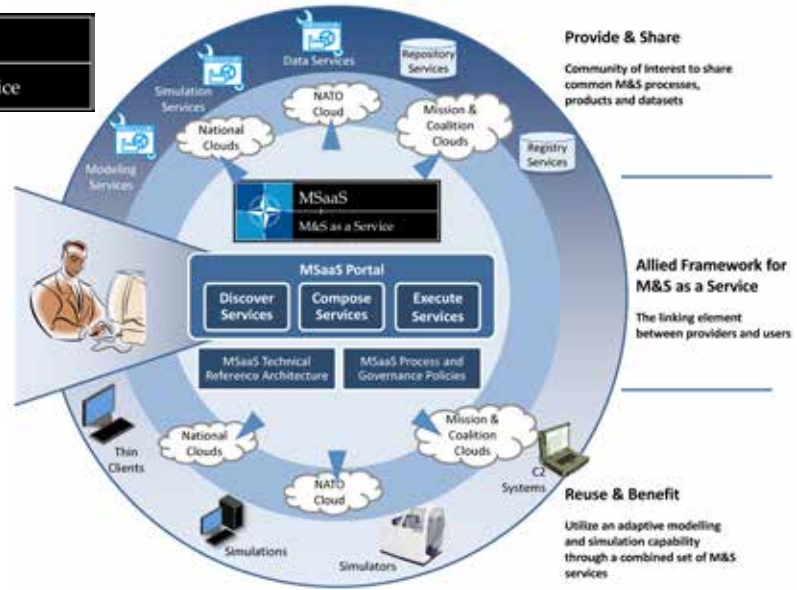
**Lieutenant Colonel Marco Biagini, Italy**  
CD&E Branch Chief, NATO  
Modelling and Simulation  
Centre of Excellence (M&S  
COE)

**Thomas Lasch**  
Chief, Models & Simulations  
Division, U.S. Joint  
Multinational Simulation  
Center (JMSC)

**Jon Lloyd**  
Enabling Training Education  
and Simulation Team,  
UK Defence Science and  
Technology Laboratory  
(DSTL)

**Robbie Phillips**  
Senior Technical Manager,  
Lockheed Martin

Session Chair:  
Jan Drabczuk, Eagle Systems



**M**odeling and Simulation (M&S) is the key technology to deliver a great amount of military training, analysis, and decision making capabilities. Two main barriers limiting the use of M&S are cost and accessibility.

M&S products are highly valuable resources and it is essential that M&S products, data and processes are conveniently accessible to a large number of users as often as possible. Therefore it is required that M&S products can be accessed simultaneously and spontaneously by a large number of users for their individual purposes.

### Modeling & Simulation as a Service

Modeling & Simulation as a Service (MSaaS) is the combination of service-based approaches with ideas taken from cloud computing. As MSaaS has technological and organizational impacts, it is best defined as an enterprise-level approach for discovery, composition, execution and management of M&S services.

This “as a Service” paradigm has to support stand-alone use as well as integration of multiple simulated and real systems into a unified environment whenever the need arises. Leveraging commercial developments MSaaS is a very promising approach for realizing future simulation environments.

### Allied Framework for MSaaS

The Allied Framework for MSaaS is the common approach of NATO and nations towards implementing MSaaS. The joint effort is undertaken to share resources and to ensure maximum interoperability.

Under the umbrella of the NATO Science & Technology Organization 16 nations, 6 NATO bodies and 100+ subject matter experts are currently working together to improve MSaaS capabilities and to realize jointly the next generation of simulation environments. The key objective is a flexible, cloud-based services environment to provide M&S products, data and processes conveniently and on-demand available to all users in order to enhance operational effectiveness.

### MSaaS is real!

If you ever wondered if M&S for military training, analysis, and decision making will be cloud-based in future, the answer is Yes. But this transition will not happen in the future, it is happening right now. This Special Event gives every simulation engineer, project manager, and leadership a true view on the current state of MSaaS, including its potential and the remaining challenges.



FOCUS EVENT



# Ignite I/ITSEC

ENLIGHTEN US, BUT MAKE IT QUICK!

WEDNESDAY, 29 NOVEMBER  
1030 – 1200 • ROOM S320GH

FE5

## Moderator

**John Aughey**  
The Boeing Company



Come and hear industry experts speak on topics such as micro-learning, entrepreneurship, and more. Have you ever sat through a long presentation and lamented that there were only five minutes of content? Imagine if you could hear only that five minutes of targeted, compelling, and maybe even provocative content... that's Ignite! Ignite is a presentation format that allows dynamic, high octane speakers a platform to share their passion and ideas. I/ITSEC's version of Ignite focuses on topics that are relevant and thought-provoking, so bring your short attention span and prepare to be inspired, entertained, educated and amazed by an array of talented speakers! These presenters have been selected from over 30 nominations, and each talk is jam-packed with inspiration and information using 20 slides that auto-advance every 15 seconds, creating a fun and dynamic event.

## Participants

### Anne Little, Ph.D.

SAIC

*Microlearning: Little Bits of Engagement, Big Rewards*

### Robby Robson, Ph.D.

Eduworks

*So you want to be an entrepreneur...*

### Commander Henry Phillips, USN, Ph.D.,

NAWCTSD

*Navy Enterprise Data Analytics: Big Data in Plain English*

### Commander Brent Olde, USN, Ph.D.

Office of Naval Research

*Mobile Training and Job Performance: Tying it All Together*

### Jennifer Vogel-Walcutt, Ph.D.

ADL Initiative

*ADL Ignite!*

### Scott Harris

University of Central Florida

*Combat Readiness Through Scientific Training Effectiveness Assessments*

### David Metcalf, Ph.D.

University of Central Florida

*3D/VR/AR – Advanced Visualization for Learning Simulations*

### Eileen Smith

University of Central Florida

*Designing for Operational Environments: Engineering Comprehensive Cognitive Ecosystems*

Session Chair:  
Michele Harrison, Naval Education  
and Training Command





# Army Synthetic Environment: Standard, Sharable, Geospatial Foundation for the Army M&S Enterprise

## CLOUD DELIVERED TERRAIN SERVICES TO TRANSFORM M&S

WEDNESDAY, 29 NOVEMBER  
1400 – 1530 • ROOM S330EF  
FE6

### Moderator

**Colonel Joseph Nolan, USA**  
Deputy Director, U.S. Army  
Modeling and Simulation  
Office (AMSO)

### Panelists

**Glen Quesenberry**  
M&S PM, Army Geospatial  
Information Office, Army  
Geospatial Command

### Ryan McAlinden

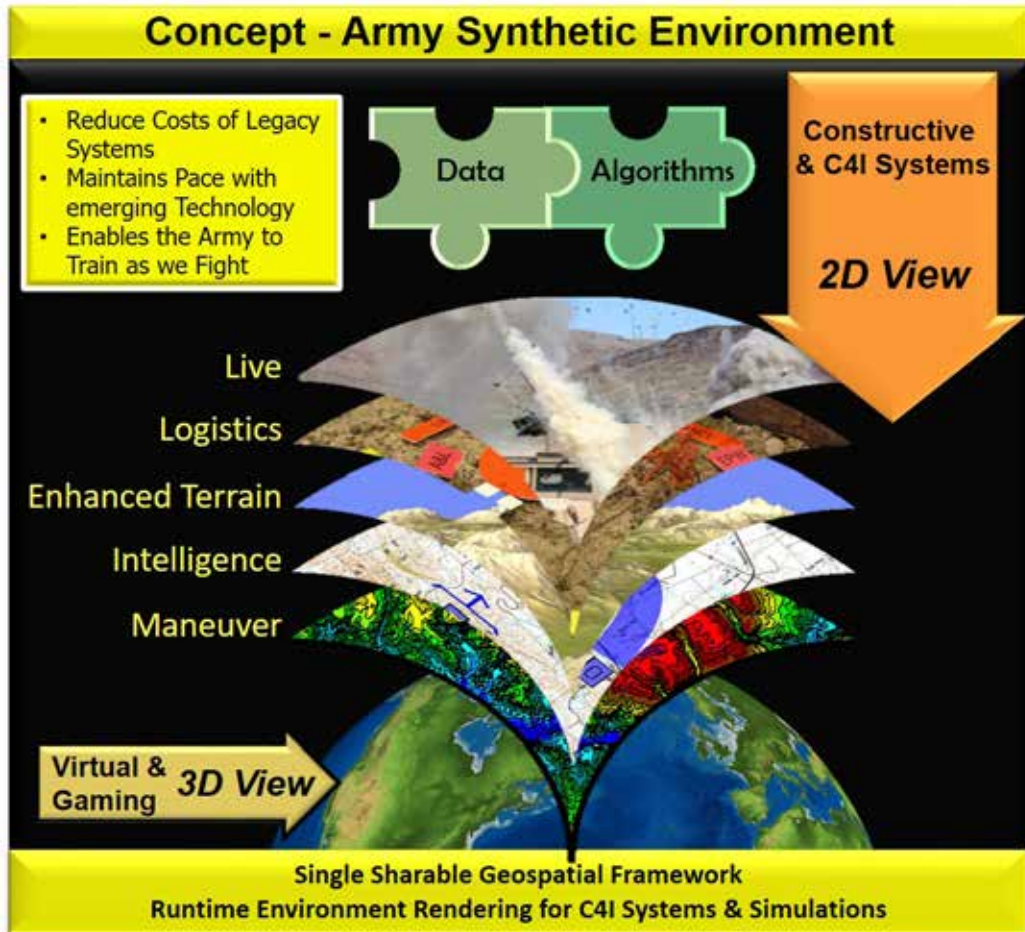
Director for Modeling,  
Simulation & Training,  
Institute for Creative  
Technologies

### Michael Enloe

Chief Engineer, TCM ITE,  
U.S. Army Combined Arms  
Center-Training

### John Diem

Acting Executive Director,  
U. S. Army Operational Test  
Command



Panelists from across the Geospatial M&S Community will describe the Single Sharable Geospatial Foundation and its implications for DoD modeling and simulation. Exploring the commercial industry's success at leveraging a single cloud-delivered terrain Service into disparate applications, the panel will discuss this emerging terrain technology and how it could be applied to our M&S and Mission Command System C4I communities. The panel will address two key considerations:

1. Is the technology readiness level for cloud delivered terrain ready for DoD applications?
2. What considerations does the DoD need to consider to ensure success and avoid pitfalls?

Following the panel discussion, AMSO will conduct a technical demonstration of a cloud delivered terrain rendering capability at its booth with participation from PEO STRI, U.S. Army National Simulation Center, and University of Southern California's Institute for Creative Technology. The demonstration will use a single terrain service to render in real time terrain using three different game engines and OneSAF.

Session Chair:  
Michael Truelove, AMSO



# Agents from the Future

## INTELLIGENT AGENTS BUILD INTELLIGENT WARFIGHTERS

THURSDAY, 30 NOVEMBER  
0830 – 1000 • ROOM S320GH  
FE7

### Moderator

**Winston “Wink” Bennett, Jr., Ph.D.**

Division Technical Advisor,  
Warfighter Readiness  
Research Division, AFRL

### Panelists

**Webb Stacy, Ph.D.**

Corporate Fellow, Aptima,  
Inc.

**Drew Rosoff**

Chief Executive Officer, CHI  
Systems, Inc.

**Sean Guarino**

Principal Scientist, Human  
Effectiveness, Charles River  
Analytics Inc.

**Todd W. Griffith, Ph.D.**

Chief Technology Officer  
& Co-founder, Discovery  
Machine, Inc.

**Benjamin Bell, Ph.D.**

President, Eduworks  
Government Solutions

**J.T. Folsom-Kovarik, Ph.D.**

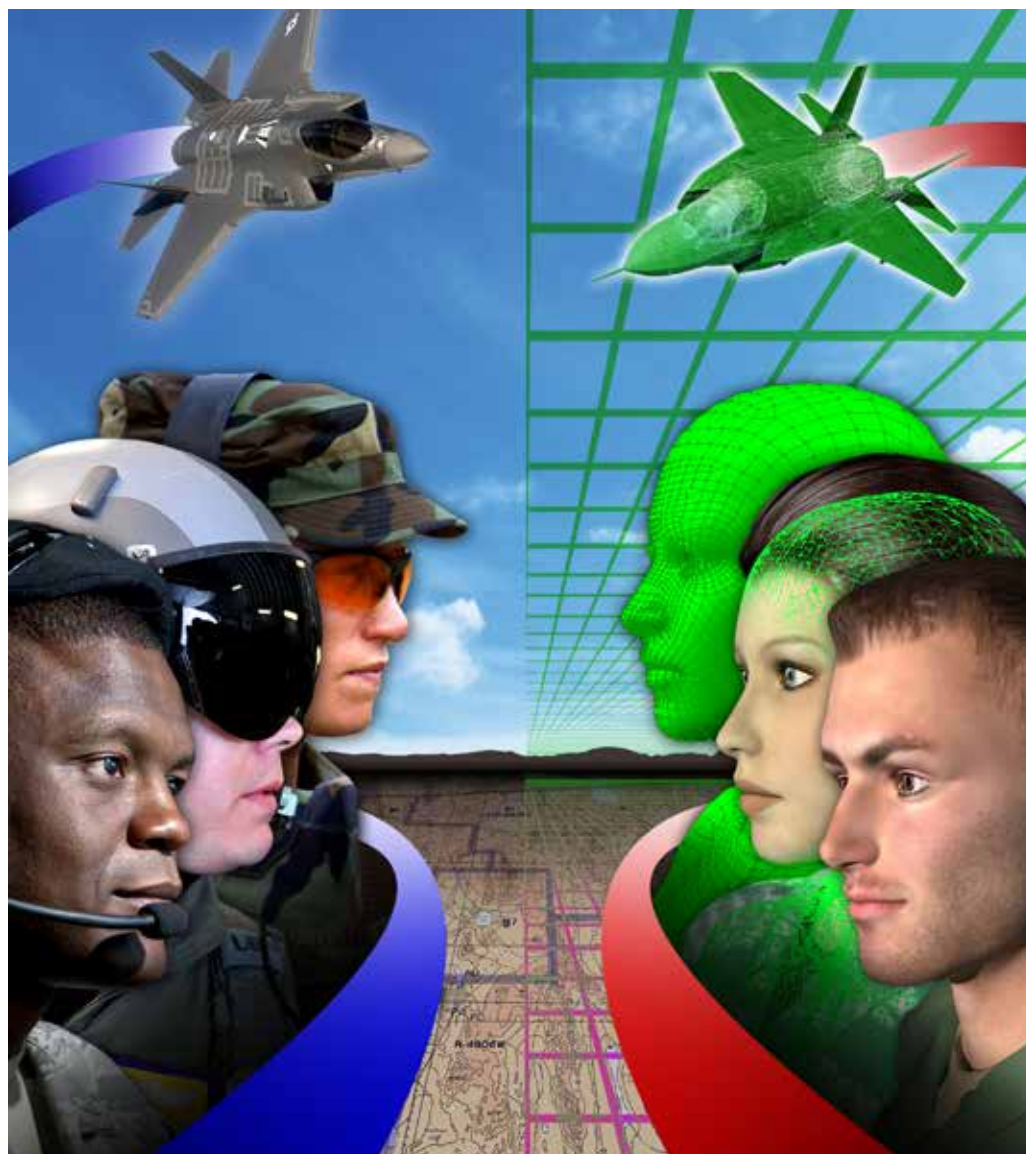
Lead Scientist, Soar  
Technology, Inc.

**Randy Jensen**

Group Manager, Stottler  
Henke Associates, Inc.

**Walter Warwick, Ph.D.**

Principal Consultant, TiER1  
Performance Solutions



Simulation is a key asset for efficient, effective training. Simulation science and technology have made great strides to improve training; however, DoD needs radical advances in at least two areas of simulation:

- Costs must drop — Most current simulations require a white cell operator, controller, or pucksters. This raises the cost of ownership. It restricts the use and distribution of simulators to the times and places that simulation operators are available.
- Cognitive fidelity must rise — Most simulations present constructive or non-player characters that cannot smartly exercise and advance the tactical decision skills of trainees.

Intelligent agents can help lower cost of ownership by reducing the demand for human operators. They can help raise cognitive fidelity by delivering dangerously smart behaviors in training.

AFRL is sponsoring a multi-year project to develop and test these agents. This special event will present the challenge, and the responses by eight leading developers of intelligent agents. Their presentations will address advances in tactical responsiveness and intelligence; use of simulator data to drive agents and even learn them; and tools for building and testing agents.

Session Chair:  
Ingrid Mellone, Huntington Ingalls



# Big Data & M&S

LEARN. LEND A HAND. HELP OUR COMMUNITY LAUNCH!

THURSDAY, 30 NOVEMBER  
1030 – 1500 • ROOM S320GH  
FE8

## Moderator

**Tony Cerri**

Director Data Science,  
Models, Simulations,  
TRADOC G2

## Panelists

**Major General James Mingus,  
USA**

Director, Mission Command  
Center of Excellence

**Kristen Summers**

Technical Delivery Lead, IBM

**Chris Balcik**

Vice President, SAMSUNG

**Young Bang**

Senior Vice President, Booz  
Allen Hamilton



## Big Data for Models and Simulations

**M**&S implementation of Big Data gets serious — now! Join with Military and Industry thought leaders and Big Data practitioners to create a two-year implementation vision. The event begins with a ‘traditional’ panel discussion followed by an open-microphone Q&A. Then you will be invited to one of two work groups where the panelists will join with the audience and raconteurs for 30 minutes to brainstorm and create a high-level, 2 year implementation plan.

“Wait! What? What’s this about ‘join’ and ‘create’? You mean me? As in do, like, work?” Yes, your individual ideas ARE being solicited. It’s a two-fer. You learn about Big Data from folks who are actually implementing it and then you get to add your voice to how our community can get going. We will also be looking for volunteers who are willing to ‘own’ a piece of the vision and add some elbow grease to its initiation. The thought at this moment is to then continue the coordination during MODSIM 2018 with a status report at next year’s I/ITSEC. Don’t let the last piece scare you off; it’s a volunteer thing. If you know a lot about Big Data — come. Lend a hand. If you know nothing about Big Data other than the buzz — come. Learn. Lend a hand. Help our community launch!

At the end of the plenary session, there will be an award presentation to the winners of the Data Science Futures Hackathon conducted during the week at I/ITSEC.

Session Chair:  
Roy Scrudder, The University of  
Texas at Austin, Applied Research  
Laboratories



FOCUS EVENT



## Buying Innovation in Military Training: How Do We Foster, Exploit and Deliver Innovation in Military Simulation and Training?

This session will address the Armed Forces desire to foster and deliver training innovation internally and how to share the output and best practice. We will discuss how industry innovates against current and future training requirements in concert with the Military and Government.

- How do we get Industry to invest their R&D budgets against customer need?
- How to reward innovation in training? – both internally and to industry
- What examples are there of innovation that can be reproduced in other areas to good effect?
- How do we engage smaller, more agile (and often naturally innovative) companies – especially those outside of the current defence delivery network?

Finally we will explore the bigger picture of how do we exploit technology from other industries into Military Training and the exploitation of excellent training/education practice from providers outside of defence.

### Moderator

**Tess Butler**  
CEO, Ruddy Nice

### Participants

**Lieutenant Colonel Jason Jones**  
Deputy Director NATO M&S Centre of Excellence, Italy

**Emmanuel Chiva**  
Chief Strategy Officer at AGUERIS and Reserve Commander (Deputy for the French Navy Chief Digital Officer), France

**Adam Easton, Ph.D.**  
CEO SimCentric, UK

Session Chair:  
Luis Velazquez, MARCORSYSCOM PM TRASYS

## Geospatial Standards

This event provides an opportunity for the major geospatial data producers, users and standardization organizations to update the community on their products, standards, and processes, and to share their plans and challenges with interested parties.

The transition to open consensus-based standards for geospatial data creates opportunities for modeling and simulation systems to:

### • Reduce technology risk by:

- » Improving interoperability through convergence on data standards
- » Broadening choice of solutions to a growing list of commercial products

### • Increase efficiency and effectiveness through:

- » Rapid integration of information, technology and authoritative data
- » Taking advantage of advancements in data storage, computing, and visualization capabilities

This group is fostering data sharing and reuse across the M&S Enterprise and converging on common standards. The result is reduced data production and preparation times to empower the agile force.

### Moderator

**Bill Hopkinson, Ph.D.**  
M&S Analyst, Defense Modeling and Simulation Coordination Office

### Participants

**Thomas F. Creel, Ph.D.**  
Technical Executive, Office of Geomatics, National Geospatial Intelligence Agency (NGA)

**Daniel T. Maxwell, Ph.D.**  
Chair, Modeling and Simulation Working Group, United States Geospatial Intelligence Foundation (USGIF)

**Samuel D. Chambers**  
M&S Data Services Lead, Environment Architecture Division, Joint Staff J7

**Jean-Louis Gougeat**  
Project Manager at Sogitec and Chairman, Reuse and Interoperation of Environmental Data and Processes (RIEDP) Product Development Group, Simulation Interoperability Standards Organization (SISO)

Session Chair:  
Steve Parrish, Laerdal Medical & Simulations



## Research Challenges in M&S in the Era of Big Data and the Internet of Things

Big data and the Internet of Things (IoT) are disruptive technologies having large impacts in society today. These impacts will only accelerate in the future. Modeling & simulation has not yet fully realized the potential and opportunities afforded by these emerging technologies. A panel of experts will discuss key research challenges and opportunities facing the modeling and simulation community in the era of big data and IoT. The panel will discuss important synergies and opportunities both in the development of new technologies as well as their exploitation in critical application areas such as smart cities, cybersecurity, and defense.

Each panelist will give a brief position statement, followed by Q&A.

### Moderator

**Warren Bizub**

Chief Technology Officer, SimIS

### Participants

**Richard Fujimoto, Ph.D.**

Regents' Professor, School of Computational Science & Engineering, Georgia Institute of Technology

**Margaret Loper, Ph.D.**

Chief Scientist, Information & Communications Laboratory, Georgia Tech Research Institute

**David Nicol, Ph.D.**

Director, Information Trust Institute, Franklin W. Woeltge Professor of Electrical and Computer Engineering, University of Illinois at Urbana-Champaign

**Richard Boyd**

Founder and CEO, Tanjo, Inc.

Session Chair:

Matthew Hackett, Ph.D., Army Research Lab Simulation and Training Technology Center (ARL STTC)

## Data Science Futures Hackathon

Want to fundamentally change the way we train and execute missions using data? The Data Science Futures hackathon provides the opportunity to discover insights into military data and use these insights to save lives and improve mission operations.

### What:

Under a tight timeline, participants will band together to arrive at new discoveries and ways in which our military can make better decisions with the Mad Scientist data provided by the U.S. Army Training and Doctrine Command (TRADOC).

The Mad Scientist initiative focuses on **disruptive technologies** (sentient data, internet of sustainable energy, platform mergers, autonomous vs. unmanned, etc.), **human dimension** (cognitive potential, man-machine interface, genome sequencing, wearables, continuous diagnostics, performance enhancers), and **megacities and dense urban areas** (population-centric intelligence, invisible geography, hot zone robotics, avatars in the field, and the role of augmented and virtual reality in training).

### When:

The hackathon will occur throughout I/ITSEC culminating in an awards presentation during the “Big Data & M&S” special event on Thursday.

### Who:

We invite everyone – whether you’ve participated in a hackathon or not – to join in on the action and be a part of the solution to some of our biggest challenges.

### Why:

The Army uses key findings and recommendations to advance understanding of the future and innovate more rapidly. As the Army faces unparalleled complexities in the future operating environment, such initiatives can ensure the future readiness of the Army and also of the entire joint force.

*Now the only question is, how can **YOU** help solve DoD’s most challenging problems?*

Session Chair:

Jennifer Arnold, Booz Allen Hamilton



COMMUNITY OF INTEREST



**TUESDAY, 28 NOVEMBER**  
**1600 – 1730**  
**ROOM S330EF**  
**PB1**

## U.S. Air Force Acquisition Update

Session Chair:  
Marcus Boyd, L3  
Technologies

This Special Event will provide the latest information from the Air Force regarding acquisition policy and upcoming training system acquisition actions. It will feature remarks by Ms. Rutledge, the Air Force Program Executive Officer for Agile Combat Support, who will share her perspective on the current state of the Air Force acquisition process and ongoing initiatives, as they apply to the I/ITSEC community. This will be followed by a presentation by Col Carpenter, the Chief of the Simulators Program Office. He will provide an update on Air Force simulator business opportunities, as a follow-on to the Simulation and Training Community Forum (STCF) held earlier this year.

### Moderator

**Tony DalSasso**

Chief Engineer, Simulators Program Office

### Participants

**Lynda Rutledge, SES**

Program Executive Officer and Director for the Agile Combat Support Directorate, Air Force Materiel Command

**Colonel Philip Carpenter, USAF**

Chief, Simulators Program Office

**WEDNESDAY, 29 NOVEMBER**  
**0830 – 1000 AND**  
**1600 – 1730**  
**ROOM S330EF**  
**PB2**

## U.S. Army PEO STRI TSIS Update

Session Chair: Riannon  
Dolletski-Lazar, ECS  
Federal

The U.S. Army Program Executive for Simulation, Training and Instrumentation (PEO STRI) Training and Simulation Industry Symposium (TSIS) update at I/ITSEC will provide the latest information regarding the current and future PEO STRI business opportunities. This will be an update from the June 2017 TSIS and will include presentations from the Project Managers, International Programs Office (IPO) and the Army Contracting Command-Orlando.

### Moderator

**Traci Jones**

PEO STRI G5 Plans and Strategy

**WEDNESDAY, 29 NOVEMBER • 0830-1000**

**0830-0900 Colonel Rich Haggerty, USA**

Project Manager Instrumentation, Targets, Threat Simulators and SOF Training Systems (PM ITTS)

**0900-0930 Scott Pulford**

Acting Project Manager Training Devices (PM TRADE)

**0930-1000 Colonel Scott McIntosh, USA**

Joint Project Manager, Medical Modeling and Simulation (JPMO MMS)

**WEDNESDAY, 29 NOVEMBER • 1600-1730**

**1600-1625 Colonel Marcus Varnadore, USA**

Project Manager Integrated Training Environment (PM ITE)

**1625-1650 Dale Whittaker**

International Programs Office (IPO)

**1650-1715 Colonel Bill Canaley, USA**

Project Lead Field Operations

**1715-1730 Joe Giunta**

Army Contracting Command-Orlando

**THURSDAY, 30 NOVEMBER**  
**0830 – 1000**  
**ROOM S330EF**  
**PB3**

## Navy Vision from the Training System's Program Managers

Session Chair: Tara  
Kilcullen, Aptima, Inc.

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.

### Moderator

**Michael Merritt**

Deputy Technical Director, NAWCTSD

### Panelists

**Captain Erik Etz, USN**

Commanding Officer, Naval Air Warfare Center (NAWCTSD)

**Captain Jason Lopez, USN**

Program Manager, Naval Aviation Training Systems (PMA-205)

**Captain Samuel Pennington, USN**

Program Manager, Naval Surface Training Systems (PMS-339)

**Jimmy Lee**

Program Manager, Undersea Training Systems (07TR)





## Central Florida Veterans Organizations

The citizens of the United States are more supportive of today's men and women in Military Service than they have been since WWII. The Overseas Contingency Operations continue to be of great concern to all, whether in uniform or not. This I/ITSEC effort is to especially inform U.S. Veterans about the dramatic changes in training methodologies and systems since their time in Service. Since 2006, I/ITSEC has had the pleasure and honor to have select members of Central Florida Veterans Organizations visit the exhibit floor on Wednesday. The successful experiences in broadening the Veterans' understanding of today's training transformation as well as the appreciation of the other I/ITSEC attendees in seeing the Veterans, some in their uniforms and with their decorations, have made this an annual event for I/ITSEC. When you see these Veterans, thank them for their service to the Nation.

*A veteran...is someone who, at one point in his or her life, wrote a blank check made payable to The United States of America for an amount of "up to and including my life."*





**INTERNATIONAL ATTENDEES - INTERNATIONALE TEILNEHMER - LES PARTICIPANTS INTERNATIONAL  
INTERNATIONAL DELTAKERE - INTERNATIONELL DELTAGARE - INTERNATIONAL DEELNEMERS**

**International Pavilion**

**Room S310E-H**

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

**International Registrants** should register at the dedicated **International Check-in** station positioned near the Main Registration Desk in West Concourse. International Conference Attendees' Meeting Bags will be available for pick-up at the Welcome Desk in the International Pavilion. More information specific to international attendees will be available at that location.

**International Pavilion Hours of Operation**

Sunday, 26 November	1400-1800
Monday, 27 November	0800-1800
Tuesday, 28 November	1030-1800
Wednesday, 29 November	0800-1500
Thursday, 30 November	0800-1500

**Program Notes of Special Interest for International Attendees**

**Papers**

Explore your Program for the ✈ indicating Papers from International Authors.

**Tutorials**

Monday, 27 November • Room S320A • 0830 – 1000

*Introduction to HLA*

Monday, 27 November • Room S330G • 0830 – 1000

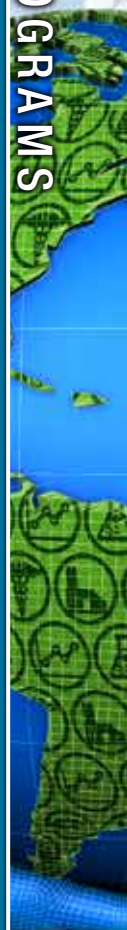
*Team Training Environment Specification and Selection*

Monday, 27 November • Room S320E • 1245 – 1415

*Spoken-dialogue Interaction for Serious Games and Virtual Training Simulators*







**INTERNATIONAL ATTENDEES - INTERNATIONALE TEILNEHMER - LES PARTICIPANTS INTERNATIONAL  
INTERNATIONAL DELTAKERE - INTERNATIONELL DELTAGARE - INTERNATIONAL DEELNEMERS**

**COMMUNITY OF INTEREST**

**Buying Innovation in Military Technology**

Tuesday, 28 November • 1600 • Room S329

(See page 34 for more information)

This panel will look at how to foster, exploit, and deliver innovation in military simulation and training from the European perspective.

**SIGNATURE EVENT**

**GLOBAL GO/FO PERSPECTIVES IN LEARNING**

Wednesday, 29 November • 0830 • Room S330BCD

(See page 20 for more information)

This panel will discuss how learning technologies need to be paired with learning science to best realize the benefits of these advanced systems.

**SIGNATURE EVENT**

**International Collaboration 2017**

Wednesday, 29 November • 1400 • Room S330BCD

(See page 22 for more information)

This senior-level panel of international participants will explore the challenge of finding a comprehensive solution to achieving collaboration on M&S tools and technologies.

**FOCUS EVENT**

**Cloud-Based Simulation: Hype or Reality?**

Wednesday, 29 November • 0830 • Room S320GH

(See page 29 for more information)

This Focus Event brings together a distinctive panel of experts from around the globe who will explore Modeling and Simulation as a Service (MSaaS).

**SPECIAL SESSION**

**International Future Authors Session**

Wednesday, 29 November • 1630 • Room S310C

This special session for our international attendees will be led by the I/ITSEC 2018 Program Chair, Bob Kleinhample. Bob will review the process of successfully authoring a paper for I/ITSEC. In a casual forum setting, Bob will outline the Call for Abstracts and considerations on which subcommittee is the best choice for abstract submittal. Bob will review the process of authoring both a successful abstract and paper for acceptance for presentation at the conference. Come participate in this informal exchange of ideas on successfully authoring a paper for I/ITSEC!

Topics include:

- Call for Abstracts (Subcommittee structure)
- Abstract Review and Acceptance (Role of the “bird dog”)
- Paper Review and Acceptance
- Presentation Development and Approval





# NOTES

[illegible]