

# MODSIM World Conference & Expo 2017

Virginia Beach Convention Center / Virginia Beach, VA

April 25-27, 2017

Monday \_\_\_\_\_ April 24

1300 – 1700 Exhibitor Move-In – Ballroom Three

1500 – 1700 Registration – Main Lobby – Near Ballroom Three

Tuesday \_\_\_\_\_ April 25

0630 – 1730 Registration – Main Lobby – Near Ballroom Three

0630 – 0800 Continental Breakfast – Ballroom Three

0800 – 0825 MODSIM World 2017 Welcome and Opening Remarks – Ballroom Two

*Dr. Eric Weisel*, Director of Applied Research, Old Dominion University, MODSIM World 2017 Conference Chair

*RADM James Robb, USN (Ret)*, President, National Training and Simulation Association (NTSA)

*Dr. John Sokolowski*, President, The Society for Modeling and Simulation International

*Dr. Saurabh Mittal*, Vice President of Membership, The Society for Modeling and Simulation International

0825 – 0830 Introduction of Industry Keynote Speaker – Ballroom Two

*Dr. Eric Weisel*, Director of Applied Research, Old Dominion University, MODSIM World 2017 Conference Chair

0830 – 0930 Industry Keynote Speaker Address – Ballroom Two

*Dr. Pieter Mostermann*, Chief Research Scientist and Director, MathWorks Advanced Research & Technology Office (MARTO) and Adjunct Professor, McGill University

*A Changing Technology Landscape with Value Drivers for Modeling & Simulation*

0930 – 1830 Exhibit Displays, Challenge Competition Presentations and Demonstrations – Ballroom Three

0930 – 1000 Networking and Exhibit Time – Ballroom Three

0930 – 1830 Innovation Corner – Ballroom Three

**Virtual and Mixed Reality Showcase at MODSIM World 2017**

Experience how innovative virtual reality (VR) and mixed reality (MR) applications are being used to deliver transformative experiences in training, education and healthcare. A rotating selection of applications will expose attendees to the VR and MR technologies and teams pushing these media into a variety of verticals. Please refer to the Tabletops Displays section of the program for more details on the demonstrations.

**Demonstrations:**

- **C-130 Demo:** Oculus Rift (Vertex)
- **Descension:** Gear VR (Janus Research)
- **F/A-18 Demo:** Oculus Rift + HoloLens (Bohemia Interactive)
- **SHARD:** HTC Vive (Plas.md)

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April 25

## 1000 – 1200 Special Event – Ballroom Two

### “The Simulation Century” – Bringing Big Data to Life

*In our session we will show how big data was used to resurrect and animate Victor Hugo and Alexander Hamilton. Can we animate and get inside the heads of adversaries? Build better teams? Don't miss this segment!*

This year the Simulation Century Panel presentations will focus on technologies that help make big data come to life and be actionable, such as machine learning and simulation. These brief, high impact presentations will envision how 21<sup>st</sup> century technologies will shape humanity's future.

**Moderator:** *Richard Boyd*, CEO, Tanjo, Inc.

#### Panel Members:

- **Kevin Clark**, Senior Venture Partner, 1 World Venture Partners
- **Jennifer Arnold**, Principal, Booz Allen Hamilton
- **Jeff Frazier**, Managing Director, Special Projects Office of the Chairman, Cisco Systems
- **Anthony Cerri**, Director, Data Science, Models, Simulations; TRADOC G27 OE Training Support Center (OE TSC)

## 1200 – 1330 Lunch and Exhibit Time – Ballroom Three

## 1330 – 1500 Paper Session I:

### ***ANALYTICS AND DECISION MAKING TRACK – Room 3A (located on the second floor)***

#### **1330 – 1400 Data Farming and The Black Swan**

*Gary Horne*, Blue Canopy Group

#### **1400 – 1430 A Simulation on the Effect of a Major World War on the Population of the World**

*Winnie Zhang*, The Governor's School for Science and Technology

#### **1430 – 1500 Simulating Foot and Mouth Disease in the United States using the Animal Disease Spread Model**

*Melissa Schoenbaum*, USDA: APHIS: VS: CEAH

### ***SCIENCE AND ENGINEERING TRACK – Room 2C (located on the second floor)***

#### **1330 – 1500 Panel: Digital Manufacturing Revolution**

The continued growth in capabilities of both the internet of things (IoT) as well as big data toolsets has led to a revolution in the manufacturing industry. As systems begin to generate more and more data, and companies are faced with transforming from traditional manufacturing practices to processes driven by software and analytics, modeling and simulation will play a key role in driving this next industrial revolution. This panel will discuss the ways in which three large manufacturers are adapting to the digital manufacturing revolution. Panelists will share ways their companies are adopting modeling and simulation driven technologies to drive exponential business returns.

#### Panel Members:

- **Troy Hartwig**, Staff Engineer, Simulation and Modeling Center of Excellence Leader, Honeywell
- **Chris Heard**, Modeling and Simulation Software Engineer, Newport News Shipbuilding
- **Dr. Vukica Jovanović**, Assistant Professor of Engineering Technology in Mechanical Engineering Technology Program, Old Dominion University

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## **TRAINING AND EDUCATION TRACK – Room 3B (located on the second floor)**

- 1330 – 1400**     **Large Scale Testing and Evaluation of Virtual Environments for Infantry Soldier Tasks Comparing Mental Effort for Live Versus Virtual Training Performance Assessments**  
*Dr. Douglas Maxwell, US Army Research Lab*
- 1400 – 1430**     **Effectiveness of Augmented Reality and Augmented Virtuality**  
*Dr. J. D. Fletcher, Institute for Defense Analyses*
- 1430 – 1500**     **Evaluating Game-Based Environments for Army Aviation Collective Training**  
*Dr. Lauren Reinerman-Jones, University of Central Florida, Institute for Simulation and Training*

## **VISUALIZATION AND GAMIFICATION TRACK – Room 2D (located on the second floor)**

- 1330 – 1400**     **Rolling the Dice: Using Low-Cost Tabletop Simulation to Develop and Evaluate High-Value CONOPS in Uncertain Tactical Environments**  
*Michael Erwin, Sonalysts*
- 1400 – 1430**     **Understanding Future Conflict Escalation Dynamics with Analytic Gaming**  
*Michael Lytwyn, SAIC*

**1500 – 1530**     **Networking and Exhibit Time – Ballroom Three**

**1530 – 1700**     **Paper Session II:**

## **ANALYTICS AND DECISION MAKING TRACK – Room 3A (located on the second floor)**

**1530 – 1700**     **Panel: Defending the Infrastructure with Modeling, Simulation and Training**  
U.S. forces are applying cyber as an integrated component of combined operations, with cyberspace as a warfare domain. The 2015 DoD CyberStrategy makes clear that the cyber domain extends from the forward edge of battle to the heartland, and that cyber operations encompass strategic and tactical operations, as well as operations needed for mission continuity. The need for cyber training arrives at a time when our nation is under consistent, pervasive threat of cyber-attack upon everything from everyday connected devices to our political process. Our need for cyber warriors has never been greater, and modeling, simulation and training lies at the forefront of the DoD's strategic mission to strengthen the skills of cyber mission planners and operators. This panel brings together key cyber leadership in industry, government and academia to discuss mission critical aspects of cyber operations, and present modeling and simulation innovations underway to defend our nation's government and commercial infrastructure.  
**Moderator: Samuel Visner**, Senior Vice President/General Manager for Cybersecurity and Resilience, ICF International

### **Panel Members:**

- **COL Scott D. Lathrop, USA (Ret)**, Director of Secure Autonomy, SoarTech
- **Dr. Deepinder Sidhu**, President and CEO, Cyberspace Analytics Corporation
- **Dr. Misty Blowers**, Senior Fellow and Vice President of Cyber Research, ICF International

## **SCIENCE AND ENGINEERING TRACK – Room 2C (located on the second floor)**

- 1530 – 1600**     **Harmonized Air Missile Space Training Environment**  
*Warren Bizub, SimIS, Inc.*
- 1600 – 1630**     **Augmenting Model-Based Design with Human System Integration Advisor**  
*Dr. Marc Abrams, Harmonia Holdings Group, LLC*
- 1630 – 1700**     **More Than the Sum of Their Parts: A Case Study in Learning Application Integration**  
*Dr. Michael Freed, SRI International*

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## **TRAINING AND EDUCATION TRACK – Room 3B (located on the second floor)**

- 1530 – 1600 Using LiDAR Technology Combined with Position-Tracking Software Medical Training Evaluation System (MTES) in an Integrated After Action Review System for Mobile Medical Lane Training**  
*Erin Honold, Information Visualization and Innovative Research*
- 1600 – 1630 Analysis of Effective Speech Recognition in a Virtual Operating Room**  
*Dr. Levi Warvel, Old Dominion University*
- 1630 – 1700 Validation Process and Use Advantages of an Avatar Guided Computer Game-Based Patient Safety Program in a Large Level I Trauma Military Treatment Center**  
*Dr. V. Andrea Parodi, VMASC*

## **VISUALIZATION AND GAMIFICATION TRACK – Room 2D (located on the second floor)**

- 1530 – 1600 Navigating Augmented and Virtual Reality Hardware Choices**  
*John Williamson, SAIC*
- 1600 – 1630 Leveraging HTML5 and WebGL to Address Information Assurance Barriers for Simulation Based Training in the U.S. Military**  
*Michael Heilmann, University of Central Florida, Institute for Simulation and Training*
- 1630 – 1700 Cultivating Digital TLC – Teaching and Learning Communities**  
*Dr. Dominic Mentor, Columbia University*

- 1700 – 1900 Attendee Onsite Networking Event – Ballroom Three**  
**Welcome Remarks: Dr. Eric Weisel and Event Sponsor, VMASC**

Wednesday

April 26

- 0700 – 1730 Registration – Main Lobby – Near Ballroom Three**
- 0700 – 0800 Continental Breakfast – Ballroom Three**
- 0800 – 0810 MODSIM World 2017 Day Two Opening Remarks – Ballroom Two**  
**Matt Spruill, Virginia Modeling and Simulation Partnership (VMSP)**
- 0810 – 0815 Introduction of Government Keynote Speaker – Ballroom Two**  
**Dr. Eric Weisel, Director of Applied Research, Old Dominion University, MODSIM World 2017 Conference Chair**
- 0815 – 0845 Government Keynote Speaker – Ballroom Two**  
**Dr. Paul Lehner, Chief, Test and Evaluation, Intelligence Advanced Research Projects Activity (IARPA)**  
*Innovative Applications of Modeling and Simulation in IARPA Test and Evaluation*

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0845 – 1015

## Special Event – Ballroom Two

### Senior Leader Panel: Digital Trends in Government and Industry

Senior Leaders from Government and Industry will share their insights on the role that M&S has in their organizations, their perspective on the issues and impact of M&S, and their thoughts on the gaps that M&S can fill in the future. Following their comments, attendees will have the opportunity to ask questions and gain a better understanding of the issues facing these leaders and the issues that M&S technology transformation can potentially address.

**Moderator:** *RADM James Robb, USN (Ret)*, President, NTSA

#### Panel Members:

- *Jill Marlowe*, Director, Research Directorate, NASA Langley Research Center
- *Jesse Citizen*, Director, DoD Modeling and Simulation Center Coordination Office
- *Marty Vozzo*, , Distributed Training Branch Head, NSWC Dahlgren Division/CDSA Dam Neck
- *Frank DiGiovanni*, Deputy Chief of Naval Personnel (*Invited*)

1015 – 1530

## Exhibit Displays, Challenge Competition Presentations and Demonstrations – Ballroom Three

1015 – 1730

## Innovation Corner – Ballroom Three

### Virtual and Mixed Reality Showcase at MODSIM World 2017

Experience how innovative virtual reality (VR) and mixed reality (MR) applications are being used to deliver transformative experiences in training, education and healthcare. A rotating selection of applications will expose attendees to the VR and MR technologies and teams pushing these media into a variety of verticals. Please refer to the Tabletops Displays section of the program for more details on the demonstrations.

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- **SHARD:** HTC Vive (Plas.md)

1015 – 1045

## Networking and Exhibit Time – Ballroom Three

1045 – 1115

## VIP Technology Showcase – Ballroom Three

The Technology Showcase allows the Senior Leader Panelists to learn about the latest technologies and tools being developed by M&S companies first hand. These short, focused briefs, conducted in sequence, will highlight M&S products and services, address state-of-the-art technology implementations, and describe how consumers and customers may benefit from these technologies.

**Moderator:** *Rex Wallen*, Modeling and Simulation Systems Engineer, Newport News Shipbuilding

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1045 – 1215 Paper Session III:

## ***ANALYTICS AND DECISION MAKING TRACK – Room 3A (located on the second floor)***

- 1045 – 1115 **Training Equipment Life Cycle Awareness for Combat Training Centers**  
*Julie Kent, Raytheon*
- 1115 – 1145 **The Reference Model Predicts Life Expectancy for Diabetics**  
*Dr. Jacob Barkak*
- 1145 – 1215 **Creating Teaching and Learning Accountabilities through Data Analytic Feedback Loops**  
*Dr. Dominic Mentor, Columbia University*

## ***SCIENCE AND ENGINEERING TRACK – Room 2C (located on the second floor)***

1045 – 1215 **Panel: Modeling and Simulation in Support of Nuclear Energy Operations**  
Though the nuclear industry is positioned to support some of the nation's energy needs, ensuring the technology and power sources are safe, clean and secure presents many challenges. This panel will discuss how the Department of Energy is working to provide safe solutions to the nuclear energy challenge, as well as ensuring the safe and secure disposal of legacy nuclear materials. Panelists will discuss how modeling and simulation is supporting the operation of nuclear processing facilities and research into the future of nuclear power.

### **Panel Members:**

- **Nick Miller**, HB-Line Deputy Facility Manager, Savannah River Nuclear Solutions, LLC.
- **Dr. Cristian Rabiti**, Department Manager, Idaho National Laboratory
- **Russ Shaffer**, Systems Modeling and Simulation Engineer, Newport News Shipbuilding

## ***TRAINING AND EDUCATION TRACK – Room 3B (located on the second floor)***

- 1045 – 1115 **Semantic Instrumentation of Virtual Environments for Training**  
*Christian Greuel, SRI International*
- 1115 – 1145 **Just a Shiny Object**  
*Major Nicholas Armendariz, USMC, Training and Education Command*
- 1145 – 1215 **Authoring Adaptive Tutors for Simulations in Psycho-Motor Skills Domains**  
*Dr. Benjamin Bell, Eduworks Corporation*

## ***VISUALIZATION AND GAMIFICATION TRACK – Room 2D (located on the second floor)***

1045 – 1215 **Panel: Navigating the Virtual and Mixed Reality Landscape of Today and Tomorrow**  
The number of virtual, augmented and mixed reality (VR/AR/MR) platforms have exploded over the past three years, providing simulation developers with a new canvas on which to create experiences that fundamentally change verticals including defense, healthcare, education and more. Join us for a wide ranging panel where we will look at available VR/AR/MR platforms and best practices for leveraging these powerful new tools in simulation.

### **Panel Members:**

- **Vance Souders**, Founder and CEO, Plas.md
- **John Grant**, Technology Innovation Manager, HT-JCOE
- **Dr. Vaughn Whisker**, Research Associate, Penn State Applied Research Labs
- **Shane Tabor**, Creative Director, ECS Orlando
- **Kishan Shetty**, Engineering Lead, JANUS Research
- **John Burwell**, Director Business Development, Bohemia Interactive

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1215 – 1345 Lunch and Exhibit Time – Ballroom Three

1345 – 1430 Special Event – “M&S Challenge Competition Presentation” – Ballroom Three

The M&S Challenge Competition is a unique event where talented individuals use the power of M&S to solve problems important to their community, government, business or industry sector. Developers, analysts, and subject matter experts participate in this competition and demonstrate the power of M&S. The four teams selected for the finals will present their projects and answer questions from the judges. Live audience voting will be included in the scores for selecting the overall best M&S solution. All conference attendees are encouraged to attend this event and vote.

**Moderator: Stefani Werner**, Modeling and Simulation Software Engineer and Analyst, Newport News Shipbuilding

### M&S Challenge Competition Finalists

Team #	Team Name
1	Pectus Metric Tool
2	Panda Coders
3	Bishop Moore
4	SKY

1430 – 1500 Technology Showcase – Ballroom Three

The Technology Showcase allows our conference attendees to learn about the latest technologies and tools being developed by M&S companies first hand. These short, focused briefs, conducted in sequence, will highlight M&S products and services, address state-of-the-art technology implementations, and describe how consumers and customers may benefit from these technologies.

**Moderator: Rex Wallen**, Modeling and Simulation Systems Engineer, Newport News Shipbuilding

1500 – 1530 Networking and Exhibit Time – Ballroom Three

1530 – 1700 Paper Session IV:

### ***ANALYTICS AND DECISION MAKING TRACK – Room 3A (located on the second floor)***

1530 – 1600 Data Sharing is a Critical Capability!

*Ralph O’Connell, Joint Staff J6*

1600 – 1630 United States Coast Guard Firehouse Staffing Analysis

*CDR Chad Long, USCG*

1630 – 1700 M&S Workbench – A Foundation for a Modeling and Simulation Digital Engineering Ecosystem

*Pauline Johnson, SimVentions*

### ***SCIENCE AND ENGINEERING TRACK – Room 2C (located on the second floor)***

1530 – 1600 Realism in Modeling and Simulation with Implications of Virtual Reality, Augmented Reality and Immersive Environments

*Dr. Jeffrey Wallace, Infinite Dimensions Integration, Inc.*

1600 – 1630 Future Look – Effective Cybersecurity Using M&S

*Paul Gustavson, SimVentions, Inc.*

1630 – 1700 Data Trace Visualizations to Decipher Carrier Traffic Patterns

*Dr. Paul Koola, KBSI*

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## **TRAINING AND EDUCATION TRACK (1) – Room 3B (located on the second floor)**

- 1530 – 1600 **Supporting Competency-based Education and Training in Distributed Learning Environments**  
*Dr. Robby Robson, Eduworks Corporation*
- 1600 – 1630 **Developing a Collaborative Instructional Design Methodology for Studying Infectious Disease Protocols**  
*Dr. Sue Dass, ICF*
- 1630 – 1700 **“System of Systems” Approach for the Development of Next Generation Modular Simulation-Based Training Systems**  
*John Burwell, Bohemia Interactive Solutions*

## **TRAINING AND EDUCATION TRACK (2) – Room 2D (located on the second floor)**

- 1530 – 1600 **Experimental Correlation of Vehicle Dynamics Simulation to Self-Reported Driving, Learning and Gaming Styles**  
*Dr. Kevin Hulme, University at Buffalo*
- 1600 – 1630 **A Fully Immersive Virtual Reality Training System for Rocket Fuel Mixing Operations**  
*Dr. Thomas Mastaglio, MYMIC Simulations*
- 1630 – 1700 **Improving the Utility of Open-Source Event Data for the Design of Training Exercises**  
*Douglas Murphy, InCadence Strategic Solutions*

1530 – 1930 **Offsite Networking Event**  
Nautilus Foyer / Nautilus Balcony  
Hilton Garden Inn Oceanfront  
3315 Atlantic Avenue  
Virginia Beach, VA 23451

- **Pre-registration and pre-payment are required for this event**

Thursday \_\_\_\_\_ April 27

0700 – 1530 **Registration - Main Lobby – Near Ballroom Three**

0700 – 0800 **Continental Breakfast – Ballroom Three**

0800 – 0930 **Paper Session V:**

## **ANALYTICS AND DECISION MAKING TRACK – Room 3A (located on the second floor)**

- 0800 – 0830 **Simulating the Impact of Sudarshan Kriya Yoga in Hampton Roads**  
*Dr. Saturnina Nisperos, Old Dominion University*
- 0830 – 0900 **Crowd Source Innovation**  
*Brian Vogt, ARCIC*
- 0900 – 0930 **Predictive Analytics with Advanced Bayesian Data-Fusion Surrogate Models**  
*Dr. Jesper Kristensen, General Electric Co.*



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## SCIENCE AND ENGINEERING TRACK – Room 2C (located on the second floor)

- 0800 – 0830 **Modeling the Characteristics of Radical Ideological Growth using an Agent-Based Model Methodology**  
*Paul Cummings, Krasnow Institute for Advanced Study, George Mason University*
- 0830 – 0900 **Experimental Validation of a Ground Robot Simulation Model during Line Following Task**  
*Dr. Yiannis Papelis, Old Dominion University*
- 0900 – 0930 **Rapid Unmanned Surface Vehicle Model Prototyping System**  
*Melissa Periman, ODU-MSVE, Timothy Lane, ODU-MSVE, Lee Dumaliang, ODU-MSVE*

## TRAINING AND EDUCATION TRACK: Special Session: Joint Staff J7 Training Tools – Room 3B (located on the second floor)

- 0800 – 0820 **Joint Staff J7 Joint Training Tools for Campaign Planning**  
*LTC Mark Madden, USA, Joint Staff J7*
- 0820 – 0840 **Cart Before the Horse – Leveraging Web-Based Global M&S Terrain Repositories for Scenario Development**  
*Samuel Chambers, Joint Staff J7*
- 0840 – 0900 **Utilizing Force Management Services (FMS) to Support Realistic Training**  
*Megan Babb, Joint Staff J7*
- 0900 – 0920 **Utilizing Campaign Adjudication to Aid in Training for Campaign Planning**  
*Amy Grom, Joint Staff J7*
- 0920 – 0930 **Q&A/Discussion**

## VISUALIZATION AND GAMIFICATION TRACK – Room 2D (located on the second floor)

- 0800 – 0830 **Over Sixty Years of Lying with Statistics and Visualization**  
*Dr. Andrew Collins, VMASC*
- 0830 – 0900 **Modeling and Economic Impact of Foot and Mouth Disease in the United States using The Paarlberg Quarterly Economic Model**  
*Dawit Assefa, USDA: APHIS: VS: STAS: CEAH*
- 0900 – 0930 **Analysis of Team Tutoring Training Data**  
*Anastacia MacAllister, Iowa State University*

0930 – 1000 **Networking – Ballroom Three**

1000 – 1200 **Protecting the Nation Panel – Ballroom Two**

### Use and Advancement of M&S Technologies for Defense and Security

The moderated panel discussion will highlight the innovative use of technology and data to facilitate:

- Complex decision making in areas such as cyber and energy security, spectrum management, acquisition and interoperability
- Advanced training and education, including blended and distributed learning

The discussion will explore advances in big data, artificial intelligence, cognitive computing, and the internet of things.

**Moderator: LCDR Chris Davidson**, Royal Australian Navy

#### Panel Members:

- **Ellen Purdy**, Office of Deputy Secretary of Defense, Research and Engineering
- **Tom Noble**, Director, Navy International Agreements, Navy IPO
- **Mike O'Neal**, Director, S&T/M&S for MARCORSYSCOM
- **Dennis Reed**, M&S Deputy, Department of Navy
- **Dr. Jeffery Temple**, Senior Engineer, Naval Surface Warfare Center Dahlgren Division (NSWCDD)

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**1000 – 1200 Student STEM Event – Ballroom Three**

The MODSIM STEM event provides the conference a unique opportunity to contribute directly to the school experience of the youth who are just beginning to formulate their dreams for the future.

During the MODSIM STEM event, approximately 100 area high school students will get the opportunity to see firsthand the world of M&S. Students will rotate through hands-on M&S demonstrations provided in the exhibit hall to see STEM in action.

**1200 – 1330 Lunch, Awards, and Announcements – Ballroom Three**

**1330 – 1500 Special Event: Meeting of the Big Data and M&S Cabal – Ballroom Two**

**Anthony Cerri**, Director, Data Science, Models, Simulations; TRADOC G27 OE Training Support Center (OE TSC)

Interested members of the M&S and Big Data communities are meeting to continue a cross cutting dialogue. Goals of the discussion include: integration of capabilities; supporting warfighters and support staff with training and experimentation; identifying community weld points; update on the I/ITSEC 2017 Big Data Special Event; and discussion of how to make MODSIM and I/ITSEC a 1 - 2 Big Data punch. All are invited. If you are not already engaged: come, listen and determine how you fit.

**1500 – 1700 External Event: National Modeling and Simulation Coalition (NMSC) Workshop – Ballroom Two**

The National Modeling & Simulation Coalition (NMSC) is an unincorporated, voluntary, nonprofit coalition sponsored by and composed of government, industrial and educational organizations and professional societies having a common interest in promoting and leveraging M&S to better the human condition and to strengthen the National well-being. The mission of the NMSC is to create a unified national community of individuals and organizations around the M&S discipline and professional practice and to be the principal advocate for M&S. This event is a meeting of the NMSC. Please join us even if you are not already a member!