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<th>ROOM</th>
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<tr>
<td>S320A</td>
<td>T-1 Designing for Training Effectiveness</td>
<td>Measuring Training Effectiveness of Lightweight Game-based Constructive Simulation (15007)</td>
<td>Validating Scenario-based Training Sequencing: The Scenario Complexity Tool (15102)</td>
<td>Adaptive Instructor Operating Stations: Design to Decrease Instructor Workload and Increase Effectiveness (15336)</td>
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<tr>
<td>S320C</td>
<td>EC-1 Easy Button</td>
<td>Automated Simulation Creation from Military Operations Documents (15227)</td>
<td>Scheduling Training to Manage Acquisition &amp; Decay (15340)</td>
<td>M&amp;S as a Service: Paradigm for Future Simulation Environments (15324)</td>
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<td>S320D</td>
<td>ED-1 Assessment and Evaluation: Isolating Effects</td>
<td>Student Retention in STEM Career Paths: Primary Influences on the Decision to Stay or Leave (15018)</td>
<td>Overcoming the Challenge of Evaluating Skills Transfer from Training to Job (15151)</td>
<td>Measuring a Moving Target: Validating Deployed Training Courses (15189)</td>
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<tr>
<td>S320E</td>
<td>H-1 This Won’t Hurt a Bit</td>
<td>Piloting a Groundbreaking Virtual Continuing Competency Platform: Results and Recommendations (15325)</td>
<td>Mobile App Design for Veterans with Physical and Cognitive Limitations (15182)</td>
<td>Structured Development of Interventions to Improve Physician Knowledge Retention (15095)</td>
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<tr>
<td>S320F</td>
<td>P-1 Enterprise, Architecture, and Standards</td>
<td>The Live-Synthetic Training and Test &amp; Evaluation Enterprise Architecture (15076)</td>
<td>Early Adoption of Common Operating Environment (COE) Standards and Guidelines (15098)</td>
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<tr>
<td>S330C</td>
<td>EC-2 Are We There Yet?</td>
<td>Modelling a Helicopter Training Continuum to Support System Transformation (15165)</td>
<td>Military Vehicle Training with Augmented Reality (15180)</td>
<td>Required Fidelity of Simulated Wound at the Point of Injury (15351)</td>
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<td>S320C</td>
<td>EC-3 Pinging and the Brain</td>
<td>Cognitive Two-Way Interactions In an Immersive Virtual Reality Environment (15332)</td>
<td>Modeling and Integrating Cognitive Agents Within the Emerging Cyber Domain (15232)</td>
<td>Tablet Computer Call for Fire Simulation Proof of Concept Study Results (15008)</td>
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<tr>
<td>S320E</td>
<td>H-2 Analyze This</td>
<td>Work Domain Analysis for Ecological Interface Design of Tangible Interfaces (15130)</td>
<td>Adaptive Testing: Adapt and Overcome the Shortfalls of Traditional Proficiency Assessments (15196)</td>
<td>Cognitive Load Assessment for Intelligence Analysts through Full Motion Video Analytics (15142)</td>
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<td>S320F</td>
<td>P-2 Design, Build, Track and Train – Here and Abroad</td>
<td>Sejong the Great Class DDGs: How ROK Navy Trained and Embraced Them (15032)</td>
<td>A System-Model-Centric Collaborative Environment for the Acquisition Lifecycle (15093)</td>
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<tr>
<td>S330C</td>
<td>EC-4 Avatars Crossing</td>
<td>Turn-Based Gaming for Convoy Commander Training (15036)</td>
<td>An Immersive Live / Virtual Bridge Approach with Ultra Wideband Tracking Technology: Phase II (15024)</td>
<td>Virtualizing Humans for Game Ready Avatars (15023)</td>
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</tbody>
</table>

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**Legend:**
- 🌟 Nominated for Best Paper Award
- 📜 Honorable Mention for Best Paper Award
- 📚 Continuing Education Units (see pg. 12)
- 🤴 Cyber Security
- 🕹 Game-related Subject Matter
- 👩‍🏫 International Author
- 🍏 Medical-related Subject Matter
- 📱 Mobile

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**TUESDAY, 1 DECEMBER • All Papers are eligible for CEU/CLP credits. (See page 12)**
### S210D Special Paper Session: Best Papers from Around the Globe

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<tbody>
<tr>
<td>S210D</td>
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#### S210A BP-1 Best Papers from Education, Training, Human Performance Analysis and Engineering

**Education:** Stress Exposure Training for the Dismounted Squad: The Human Dimension (15150) 🟢

**Training:** Differentiating Measures of Learning (MOL) from Measures of Performance (MOP) During Aircraft Carrier Landing Practice (15210) 🟢

**Human Performance Analysis and Engineering:** You Cannot Hit What You Do Not Shoot (15209) 🟢

#### S210B S-4 From Reality to Simulation

**Network Bandwidth's Effect on Virtual World Simulator Performance Optimization (15360)** 🟢

**3D Immersive Environment Using X-Plane for Depth Perception Research (15261)** 🟢

**Battle Damage Computation Server (15051)** 🟢

#### S210C EC-7 Let's Get Physiological

**Visualizing fMRI Data Using Volume Rendering in Virtual Reality (15253)** 🟢

**Professional Soldier Assessment of a Rifle-Mounted Target Hand-Off System (15039)** 🟢

**Empirical Support for Brain-Based Assessment in Simulation-Based Training (15300)** 🟢

#### S210D ED-4 Getting In Front of It

**Antecedents of Adaptive Collaborative Learning Environments (15211)** 🟢

**Adaptable Resilience Training for Transitioning Veterans Using Existing Technologies (15285)** 🟢

**The Changing Face of Military Learning (15327)** 🟢

#### S210E H-4 It's a Wild, Wild Cyber World

**Automated Performance Assessment in Cyber Training Exercises (15044)** 🟢

**Command Shift: Exploring Modern Gaming Technologies to Create Next-Generation OCO Interfaces (15091)** 🟢

**Embedded Cyber-Physical Systems for Assessing Performance in Training Simulations (15263)** 🟢

#### S210F P-3 Developing Competency – The Future for M&S

**Improving Education, Training and Career Advancement through Competency Portability (15117)** 🟢

**STEMulating: An Integrated Approach to Cultivating Our Future (15270)** 🟢

**Modeling and Simulation Professionals – Meeting the Demand (15342)** 🟢

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**LEGEND** (one or more of the following may appear on this page). The number in parentheses following Paper Title is the ID tracking number.

- 🟢 Nominated for Best Paper Award
- 🟡 Honorable Mention for Best Paper Award
- 🟢 International Author
- 🟡 Continuing Education Units (see pg. 12)
- 🟡 Game-related Subject Matter
- 🟡 Medical-related Subject Matter
- 🟢 Cyber Security
- 🟢 Mobile
**WEDNESDAY, 2 DECEMBER**  

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<tr>
<td>S320D ED-5 Challenging the Game Adelle Lynch</td>
<td>Game-Based Training for Human-Intelligence Skills (15067)</td>
<td>A Conceptual Model of Pedagogic Design to Support Critical Thinking in Commanders (15075)</td>
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<tr>
<td>S320E H-5 Maintaining Your Cool Elaine Raybourn, Ph.D.</td>
<td>Human Performance in Content Design for Interactive Augmented Reality Systems (15156)</td>
<td>Using Micro and Macro Studies of Tablets to Improve Maintenance (15279)</td>
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</tr>
<tr>
<td>S320F P-4 Getting Your Money’s Worth Larry Rieger</td>
<td>Calculating Simulation-Based Training Value: Cost Avoidance and Proficiency (15199)</td>
<td>Large Scale Adoption of Training Simulations: Are We There Yet? (15256)</td>
<td>Automated Surveys: Lowering the Respondent’s Burden (15080)</td>
<td></td>
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**ROOM | SESSION/CHAIR | 1600 | 1630 | 1700 | 1800**

| S320A T-4 Team Building: All for One and One for All Brian Cairns | Assessing the Effects of Virtual Emergency Training on Mine Rescue Team Efficacy (15119) | Alternative Front End Analysis for Automated Complex Systems (15121) | Evaluating Distributed Teams with the Team Multiple Errands Test (15264) |
| S320C EC-8 Experience with the Experience API Nick Giannias | Putting Live Firing Range Data to Work using the xAPI (15019) | Adapting Gunnery Training Using the Experience API (15179) | Opening Legacy Data Silos: Using Experience Data for Educational Impact (15043) |

**LEGEND** (one or more of the following may appear on this page). The number in parentheses following Paper Title is the ID tracking number.

- **Nominated for Best Paper Award**
- **Game-related Subject Matter**
- **International Author**
- **Honorable Mention for Best Paper Award**
- **Continuing Education Units (see pg. 12)**
- **Cyber Security**
- **Medical-related Subject Matter**
- **Mobile**

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**THE WORLD’S LARGEST MODELING & SIMULATION EVENT**
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<tr>
<td>S320B</td>
<td>S-8 Simulation Supported Training Scott Hooper</td>
<td>Embarking on a Home Station Training Revolution (15176)</td>
<td>Implementation of Role-Based Command Hierarchy Model for Actor Cooperation (15166)</td>
<td>Innovative Division/Brigade Level CO Training Solution for Influence Operations (15107)</td>
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<tr>
<td>S320C</td>
<td>EC-9 3D Psycho John Dzenutis</td>
<td>Rapid 3D Geospatially Oriented Structure Extraction from Minimal Image Sets (15323)</td>
<td>Extending Intelligent Tutoring Beyond the Desktop to the Psychomotor Domain (15029)</td>
<td>Delivering 3D Virtual Maintenance Training Content: Examining the Deployment Options (15239)</td>
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<tr>
<td>S320D</td>
<td>ED-7 It’s All About the Learning Mark Friedman</td>
<td>Using a Skill Acquisition Theory as a Framework for the Army Learning (15125)</td>
<td>Transmedia (Social) Learning in the Wild: DoD SkillBridge for Transitioning Service Members (15162)</td>
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<tr>
<td>S320A</td>
<td>T-6 ISR, CRM, TDM, Oh My! – Different Domains, Universal Strategies Anne Little, Ph.D.</td>
<td>Improving Military Crew Resource Management Using a Commercial Strategy Game (15097)</td>
<td>Simulation and Training Challenges for Intelligence, Surveillance and Reconnaissance Analysts (15175)</td>
<td>Effectiveness of Process Level Feedback at Training Tactical Decision Making (15201)</td>
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<tr>
<td>S320C</td>
<td>EC-10 To Game or Not To Game Stu Armstrong</td>
<td>Gamers Today, Surgeons Tomorrow? (15235)</td>
<td>Relationship Between Learner and Environment: Learner Traits in Serious Games (15092)</td>
<td>Learning Stories: Design Considerations for Narrative Elements in Serious Games (15303)</td>
</tr>
<tr>
<td>S320E</td>
<td>H-8 From the Halls of Montezuma Jerry Stahl</td>
<td>MarineNet User Engagement Exercise (15011)</td>
<td>Supporting Unit Training Management Through Mobile Performance Assessment Tools (15034)</td>
<td>Marine Corps Instructor Master Model: A Foundation for Marine Faculty Professional Development (15146)</td>
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**LEGEND** (one or more of the following may appear on this page). The number in parentheses following Paper Title is the ID tracking number.  
- *Nominated for Best Paper Award*  
- Game-related Subject Matter  
- Honorable Mention for Best Paper Award  
- International Author  
- Continuing Education Units (see pg. 12)  
- Medical-related Subject Matter  
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<tr>
<td>S320B</td>
<td>S-12 The Business of Simulations Randy Crowe, Ph.D.</td>
<td>A MBSE Approach in Modeling Systems Using Hybrid Simulation Techniques (15368)</td>
<td>Simulator Architecture Upgrade Utilizing Virtual Machines (VMs) (15219)</td>
<td>Improved Process for Bridging the Technology Transition Valley of Death (15103)</td>
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<tr>
<td>S320C</td>
<td>EC-12 A Little Design Will Do Ya Susan Harkrider</td>
<td>Early Synthetic Prototyping: When We Build It, Will They Come? (15187)</td>
<td>Implementation of Agile Methods within Instructional Systems Design: A Case Study (15094)</td>
<td>Development and Evaluation of a Venipuncture and Phlebotomy Training System (15084)</td>
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<td>S320E</td>
<td>H-9 Experience Counts Randy Jensen</td>
<td>Realism and Effectiveness of Robotic Moving Targets (15118)</td>
<td>Soldier Physiological Changes of Shooting Performance in the Tank Simulator (15192)</td>
<td>Novice and Experience Police Officer Simulation Experience: Guiding the Future (15370)</td>
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### THURSDAY EVENING

Reception & Awards Banquet

Hyatt Regency Windermere Ballroom

WE WILL NOT PROVIDE SHUTTLE SERVICE TO/FROM THE CLOSING BANQUET. IF YOU HAVE A SPECIAL NEED PLEASE CONTACT BMCDANIEL@NDIA.ORG.

BANQUET TICKET REQUIRED
Best Papers from Education, Training, Human Performance Analysis and Engineering

**Session Chair:** Anne Little, Ph.D., ADDX Corporation  
**Session Deputy:** Sowmya Ramachandran, Ph.D., Stottler Henke Associates, Inc.

**Education: Stress Exposure Training for the Dismounted Squad: The Human Dimension (15150)**  
Jay Brimstine, Ph.D., U.S. Army Maneuver Center of Excellence; SGM Higgs, Senior Enlisted Officer at PEO STRI; Rob Wolf, Brian Kemper PM TRADE; Rob Parrish, PM CATT; Dr. Joan Johnston, Pat Garrity, ARL HRED STTC; Jim Moon, Brian Kemper PM TRADE; Rob Parrish, PM CATT; Dr. Higgs, Senior Enlisted Officer at PEO STRI; Rob Wolf, Ph.D., U.S. Army Maneuver Center of Excellence; SGM Higgs, Senior Enlisted Officer at PEO STRI; Rob Wolf, Brian Kemper PM TRADE; Rob Parrish, PM CATT; Dr. Joan Johnston, Pat Garrity, ARL HRED STTC; Jim Moon, Chris Jacques, Milton Fields, Sam Rhodes, Fort Benning MCoE; Anita Zabek, Paul Butler, Rick Osborne, Patrick Ogden, MITRE; Bill Ross, Brandon Woodhouse, Cognitive Performance Group  

**Training: Differentiating Measures of Learning (MOL) from Measures of Performance (MOP) During Aircraft Carrier Landing Practice (15210)**  
Jeffrey M. Beaubien, Ph.D., E. Webb Stacy, Ph.D., Sterling M. Wiggins, Michael J. Keeney, Ph.D., Aptima, Inc.; Amy Bolton, Ph.D., Office of Naval Research; LCDR Jefferson D. Grubb, Ph.D., USN, Naval Aviation System Program Office; Melissa M. Walwanis, Heather A. Priest, Ph.D., NAWCTSD; Christian S. Riddle, NAVAIRSYSCOM Manned Flight Simulator  

**Human Performance Analysis and Engineering: You Cannot Hit What You Do Not Shoot (15209)**  
Martin Bink, U.S. Army Research Institute; Elizabeth Uhli, Ph.D., ARL HRED STTC; David James, Northrop Grumman Corporation

**Best Papers from Emerging Concepts and Innovative Technologies; Simulation; Policy Standards Management and Acquisition**

**Session Chair:** Tara Kilcullen, Raydon Corporation  
**Session Deputy:** Karen Williams, U.S. Army PEO STRI  

David Scheidt, Robert Lutz, William D’Amico, Ph.D., Dean Kleissas, Robert Chalmers, Robert Bamberger, Johns Hopkins University Applied Physics Laboratory  

**Simulation: Cyber Operational Architecture Training System – Cyber for All (15108)**  
David “Fuzzy” Wells, Ph.D., Derek Bryan, USPACOM J81  

**Policy Standards Management and Acquisition: Measuring Virtual Simulation’s Value in Training Exercises – USMC Use Case (15114)**  
Nathan Jones, Greg Seavers, MARCORSYSCOM PM TRASYS; Christin Capriglione, NAWCTSD

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**BEST PAPERS**

**BP-1 WEDNESDAY, 2 DECEMBER • 1030-1200 • S320A**

**Best Papers from Education, Training, Human Performance Analysis and Engineering**

**Session Chair:** Anne Little, Ph.D., ADDX Corporation  
**Session Deputy:** Sowmya Ramachandran, Ph.D., Stottler Henke Associates, Inc.

**Education: Stress Exposure Training for the Dismounted Squad: The Human Dimension (15150)**  
Jay Brimstine, Ph.D., U.S. Army Maneuver Center of Excellence; SGM Higgs, Senior Enlisted Officer at PEO STRI; Rob Wolf, Brian Kemper PM TRADE; Rob Parrish, PM CATT; Dr. Joan Johnston, Pat Garrity, ARL HRED STTC; Jim Moon, Chris Jacques, Milton Fields, Sam Rhodes, Fort Benning MCoE; Anita Zabek, Paul Butler, Rick Osborne, Patrick Ogden, MITRE; Bill Ross, Brandon Woodhouse, Cognitive Performance Group

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**Human Performance Analysis and Engineering: You Cannot Hit What You Do Not Shoot (15209)**  
Martin Bink, U.S. Army Research Institute; Elizabeth Uhli, Ph.D., ARL HRED STTC; David James, Northrop Grumman Corporation

**BP-2 WEDNESDAY, 2 DECEMBER • 1400-1530 • S320A**

**Best Papers from Emerging Concepts and Innovative Technologies; Simulation; Policy Standards Management and Acquisition**

**Session Chair:** Tara Kilcullen, Raydon Corporation  
**Session Deputy:** Karen Williams, U.S. Army PEO STRI  

David Scheidt, Robert Lutz, William D’Amico, Ph.D., Dean Kleissas, Robert Chalmers, Robert Bamberger, Johns Hopkins University Applied Physics Laboratory  

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Nathan Jones, Greg Seavers, MARCORSYSCOM PM TRASYS; Christin Capriglione, NAWCTSD

**EDUCATION**

**ED-1 TUESDAY, 1 DECEMBER • 1400-1530 • S320D**

**Assessment and Evaluation: Isolating Effects**

**Session Chair:** Robert “Buddha” Snyder, WBB, Inc.  
**Session Deputy:** Sally Carter, AETC

**Student Retention in STEM Career Paths: Primary Influences on the Decision to Stay or Leave (15018)**  
Jennifer Winner, LT Christopher Faxon, USAF, AFRL; Michael D. Coovert, Ph.D., University of South Florida Tampa

**Overcoming the Challenge of Evaluating Skills Transfer from Training to Job (15151)**  
Tounnakone (Annie) Hester, Jay Brimstine, Ph.D., Maneuver Center of Excellence Fort Benning

**Measuring a Moving Target: Validating Deployed Training Courses (15189)**  
Timothy R. Brock, Ph.D.; Denise R. Stevens, Ed.D., General Dynamics Information Technology

**ED-2 TUESDAY, 1 DECEMBER • 1600-1730 • S320D**

**Navigating the Social and Educational Terrain**

**Session Chair:** Martin Bink, Ph.D., U.S. Army Research Institute  
**Session Deputy:** Anthony Carboniari, MARCORSYSCOM PM TRASYS

**Enhancing Good Stranger Skills: A Method and Study (15071)**  
Robert Hubal, Mike van Lent, Ph.D., Bob Marinier, Ph.D., Chris Kawatsu, Bob Bechtel, Ph.D., Soar Technology, Inc.

**Curriculum GPS: An Adaptive Curriculum Generation and Planning System (15369)**  
Mustafa Ilhan Akbas, Prateek Basavaraj, Özlem Garibay, Ivan Garibay, Michael Georgiopoulos, University of Central Florida

**ED-3 WEDNESDAY, 2 DECEMBER • 0830-1000 • S320D**

**Full STEM Ahead**

**Session Chair:** Nina Deibler, Serco Inc.  
**Session Deputy:** Tiffany Parrish, NAWCTSD

**Mars Game: Creating and Evaluating an Engaging Educational Game (15105)**  
Kevin Dill, Spencer Frazier, Lockheed Martin; Barbara Freeman Ed.D., UC Berkeley; Juan Benito, Cooperative Entertainment Inc.

**The Secret for STEM Success: Employing Technology for Math Proficiency (15145)**  
Edward P. Harvey, Jr., Advanced Training & Learning Technology, LLC; Marvin G. Fuller, Ph.D., Ogletorpe Charter School; Edward P. Harvey, III, Harvard University

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**LEGEND**

- $Nomination for Best Paper Award
- Game-related Subject Matter
- Honorable Mention for Best Paper Award
- International Author
- Continuing Education Units (see pg. 12)
- Cyber Security
- Mobile

- All Papers are eligible for CEU/CLP credits. (See page 12)
Inquiry and Design Approach to STEM Education Using Project-based Learning (15238) Danielle McNeely, Robert Seltzer, NAWCWTSD; Stephen Priselac, Ed.D., Nancy Priselac, Ed.D., nCASE; Heather Norton, Ali Francis, Orlando Science Center; Susan Nelson, AUVSI Foundation; Eileen Smith, University of Central Florida; Abdul Siddiqui, U.S. Army PEO STRI

Getting In Front of It
Session Chair: Jay White, Department of Homeland Security
Session Deputy: Thomas Archibald, IDSI

Antecedents of Adaptive Collaborative Learning Environments (15211) Robert A. Sottile, Ph.D., Joan H. Johnston, Ph.D., Anne M. Sinatra, Ph.D., ARL HRED STTC; Shawn Burke, Ph.D., University of Central Florida; Eduardo Salas, Ph.D., Rice University; Heather Holden, Ph.D., Mount Washington University

Adaptable Resilience Training for Transitioning Veterans Using Existing Technologies (15285) Jill Sheperd, Jennifer Ukwa, Booz|Allen|Hamilton

The Changing Face of Military Learning (15327) Sae Schatz, Ph.D., Advanced Distributed Learning; David Fautua, Ph.D., Joint Staff J7; Julian Stodd, SeaSalt Learning; Emile Reitz, Alion Science and Technology

Challenging the Game
Session Chair: Adelle Lynch, Rockwell Collins
Session Deputy: Brian Stensrud, Ph.D., Soar Technology, Inc.

Game-Based Training for Human-Intelligence Skills (15067) John T. Miller, II, Consortium Research Fellows Program and Capella University; Martin L. Bink, Ph.D., U.S. Army Research Institute

A Conceptual Model of Pedagogic Design to support Critical Thinking in Commanders (15075) Kia Hong Tan, Teng Howe Lim, Boon Kee Soh, DSO National Laboratories

Instructors for the Force of the Future
Session Chair: Jim Threlfall, C2 Technologies, Inc.
Session Deputy: David Fautua, Joint Staff J7

Designing Instructor Support Tools for Virtual Shiphandling Training (15133) Martin Voshell, Ph.D., Ryan Kilgore, Ph.D., Christopher Hogun, David Young, Charles River Analytics

Hey, Remember to Add Motivational Design to Your E-learning (15030) Geir Isaksen, CDR, NoD University College; Siren Else Fryntlog Hole, Transform AS


It's All About the Learning
Session Chair: Mark Friedman, Adayanaga Government Group
Session Deputy: Claudia Clark, Ph.D., NETC

Using a Skill Acquisition Theory as a Framework for the Army Learning (15125) LTC Glenn A. Hodges, Ph.D., U.S. Army, TRADOC

Transmedia (Social) Learning in the Wild: DoD SkillBridge for Transitioning Service Members (15162) Elaine M. Raybourn, Ph.D., Sandia National Laboratories/ADL Initiative; Frank C. DiGiovanni, SES, Force Readiness and Training, OASD(R); MG Tom Jones, USMC (Ret.), Outdoor Odyssey

Make a Mobile
Session Chair: Ellen Menaker, Ph.D., IDSI
Session Deputy: Liz Gehr, Ph.D., The Boeing Company

Innovative Mobile Technologies for Assessing and Enhancing Soldier Performance (15082) Krista L. Ratwani, Ph.D., Courtney R. Dean, Camilla Knott, Ph.D., Frederick Dietrich, Ph.D., Aptima, Inc.; Scott Flanagan, Sophia Speira; Jennifer S. Tucker, Ph.D., U.S. Army Research Institute

A Reference Model for Designing Mobile Learning and Performance Support (15225) Peter Berking, Jason Haag, Advanced Distributed Learning Initiative


EMERGING CONCEPTS & INNOVATIVE TECHNOLOGIES

The Best Paper for this category will be presented on Wednesday in Room S320A at 1400

SAFE TESTING OF AUTONOMOUS SYSTEMS PERFORMANCE (15348)

Easy Button
Session Chair: John Dzenutis, The Boeing Company
Session Deputy: Susan Harkrider, RDECOM CRDEC NVESD

Automated Simulation Creation from Military Operations Documents (15227) John Balint, Ph.D., Jan M. Allbeck, Ph.D., Michael R. Heib, Ph.D., George Mason University

Scheduling Training to Manage Acquisition & Decay (15340) Mohammed Eslami, Ph.D., Jared Freeman, Ph.D., Scott Pappada, Ph.D., Aptima, Inc.

M&S as a Service: Paradigm for Future Simulation Environments (15324) Robert Siegfried, aditerna GmbH; Tom van den Berg, TNO

LEGEND (one or more of the following may appear on this page). The number in parentheses following Paper Title is the ID tracking number.

Nominated for Best Paper Award
Game-related Subject Matter
Honorable Mention for Best Paper Award
International Author
Continuing Education Units (see pg. 12)
Medical-related Subject Matter
Cyber Security
Mobile
Are We There Yet?
Session Chair: Scott Ariotti, The DiSTI Corporation
Session Deputy: Brian Overy, Diamond Visionics

Modelling a Helicopter Training Continuum to Support System Transformation (15165) Michael Johnstone, Ph.D., Vu Le, Ph.D., Burhan Khan, Doug Creighton, Ph.D., Center for Intelligent Systems Research; Ana Novak, Ph.D., Vivian Nguyen, Luke Tracey, Defence Science and Technology Organisation

Military Vehicle Training with Augmented Reality (15180) Jonathan Brookshire, Ph.D., Taragay Oskiper, Ph.D., Vlad Branzoi, Supun Samarasekera, Rakesh Kumar, Ph.D., SRI International; Sean Cullen, Richard Schaffer, Lockheed Martin Mission Systems and Training

Required Fidelity of simulated Wound at the Point of Injury (15351) M. Beth H. Pettitt, ARL HRED STTC

Fidelity Matters
Session Chair: Eric Weisel, Ph.D., Old Dominion University
Session Deputy: Paul Bogard, USAF Simulators Division
Reliably Assessing the Effectiveness of a Plan with Models of Verying Fidelity and Under Time Constraints (15060) Steven de Jong, Ph.D., Wouter Noordkamp, Nick van der Poel, Selmar Smit, Ph.D., TNO Defence, Safety & Security

Requirements for Future SAFs: Beyond Tactical Realism (15193) Robert E. Wray, Ph.D., Soar Technology, Inc.; Heather A. Priest, Ph.D., Melissa M. Walwanis, Katherine Kaste, NAWCTSD

It's All About Veterans
Session Chair: Brian Holmes, The AEgis Technologies Group, Inc.
Session Deputy: Connie Perry: U.S. Army PEO STRI

Virtual Interview Training Increases Job Offers for Veterans and Others (15013) Dale E. Olsen, Ph.D., Laura B Humm, SIMmersion; Matthew J. Smith, Ph.D., Michael Fleming, M.D., Neil Jorden, Ph.D., Northwestern University Feinberg School of Medicine

Stepping Stones – An Augmented Reality Rehabilitation Game (15181) Stuart Armstrong, QinetiQ Inc.

The VA Virtual Medical Center: Implementing a Vision for a Virtual Healthcare Campus for our Veterans (15358) Rosalyn P. Scott, M.D., Terry L. Orozzi, Brian V. Burke, M.D., Cathy D. Graham, Ph.D., Dayton VA Medical Center; Nancy Benton, Ph.D., R.N., Mann-Grandstaff VA Medical Center; Paul T. Ingmundson, Ph.D., South Texas Veterans Health Care System, Jenni Gallimore, Ph.D., Wright State University; Helga Carabello, VA Portland Health Care System; Sean M. McCoy, Ph.D., Veterans Rural Health Resource Center-Eastern Region; Manny Dominguez, Ph.D., VHA Employee Education System; Mary E. Davidson, Healthcare System of Ohio

Avatars Crossing
Session Chair: James (Josh) Jackson, SAIC
Session Deputy: Paul Thurkettle, NATO HQ SACT

Turn-Based Gaming for Convoy Commander Training (15036) Rudy Boonekamp, Tijmen Muller, TNO; Jur de Vrijer, SIMCEN RNA

An Immersive Live / Virtual Bridge Approach with Ultra Wideband Tracking Technology: Phase II (15024) Jay Saffold, Tovar Shoaf, Jason Holuitak, Research Network, Inc.; Pat Garrity, Timothy Roberts, ARL HRED STTC

Virtualizing Humans for Game Ready Avatars (15023) Jay Saffold, Tovar Shoaf, Jason Holuitak, Research Network, Inc.; Timothy Roberts, Pat Garrity, ARL HRED STTC

Let's Get Physiological
Session Chair: Jennifer Murphy, Ph.D., Quantum Improvements Consulting, LLC
Session Deputy: Jefferson Grubb, NAVAIRSYSCOM

Visualizing fMRI Data Using Volume Rendering in Virtual Reality (15253) Joseph Holub, Ph.D., Eliot Winer, Ph.D., Iowa State University

Professional Soldier Assessment of a Rifle-Mounted Target Hand-Off System (15039) Jerome Levesque, Ph.D., Katherine Banko, Ph.D., Defence Research & Development Canada; Olaf Binsch, Ph.D., Netherlands Organization for Applied Scientific Research
**Empirical Support for Brain-Based Assessment in Simulation-Based Training (15300)**

Kevin B. Oden, Ph.D., Kelly L. Phillips, Lockheed Martin Mission Systems and Training; Kurl tus Izzetoglu, Ph.D., Patrick Craven, Ph.D., Hasan Ayaz, Ph.D., Gabriela Hernandez, Drexel University

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**Relationship Between Learner and Environment: Learner Traits in Serious Games (15092)**

Marvin G. Fuller, Ph.D., Oglethorpe Charter School; Dennis Beck, Ph.D., University of Arkansas

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**Learning Stories: Design Considerations for Narrative Elements in Serious Games (15303)**

Michael W. Freeman, MW Freeman Solutions; Mark Friedman, Adayana, Inc.

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**Putting Live Firing Range Data to Work Using the xAPI (15019)**

Paula J. Durlach, Ph.D., ARL HRED STTC; Nick Washburn, Riptide Software, Inc.; Damon Regan, The Tolliver Group, Inc./ADL Initiative

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**Adapting Gunnery Training Using the Experience API (15179)**

Rodney Long, ARL HRED STTC; Jennifer S. Murphy, Ph.D., Carolyn Newton, Quantum Improvements Consulting; Michael Hruska, Ashley L. Medford, Problem Solutions; Tara Kilcullen, Robert L. Harvey, Jr., Raydon Corporation

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**Opening Legacy Data Silos: Using Experience Data for Educational Impact (15043)**

Jonathan Poltrack, Tom Creighton, Problem Solutions/ADL Initiative

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**Rapid 3D Geospatially Oriented Structure Extraction from Minimal Image Sets (15323)**

R. Scott Starsman Ph.D., Avineon, Inc.

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**Extending Intelligent Tutoring Beyond the Desktop to the Psychomotor Domain (15029)**

Robert A. Sottileare, Ph.D., ARL HRED STTC; Joseph LaViola, Ph.D., University of Central Florida

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**Delivering 3D Virtual Maintenance Training Content: Examining the Deployment Options (15239)**

Christopher Van Duyne, Scott Ariotti, The DiSTI Corporation

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**Early Synthetic Prototyping: When We Build It, Will They Come? (15187)**

LTG Brian Vogt, USA, U.S. Army TRADOC; Michael Megiveron, Robert E. Smith, Ph.D., U.S. Army TARDEC

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**Implementation of Agile Methods within Instructional Systems Design: A Case Study (15094)**

Lisa Cooney, Anne Little, Ph.D., Addx Corporation

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**Development and Evaluation of a Venipuncture and Phlebotomy Training System (15084)**

Teresita M. Sotomayor, Ph.D., ARL HRED STTC; Angela M. Alban, SIMETRI, Inc.
HUMAN PERFORMANCE ANALYSIS AND ENGINEERING
The Best Paper for this category will be presented on Wednesday in Room S320A at 1030

YOU CANNOT HIT WHAT YOU DO NOT SHOOT (15209)

This Won’t Hurt a Bit
Session Chair: Robert Hester, Ph.D., University of Mississippi Medical Center
Session Deputy: Ingrid Mellone, Camber Corporation
Piloting a Groundbreaking Virtual Continuing Competency Platform: Results and Recommendations (15325) Jennifer McNamara, BreakAway Games; Paul Grace, Margaret Bent, Ph.D., National Board for Certification in Occupational Therapy, Inc.


Structured Development of Interventions to Improve Physician Knowledge Retention (15095) Lloyd Werk, M.D., Maria Carmen Diaz, M.D., James P. Franciosi, M.D., Tim Wysocki, Nemours Children’s Health System, Jacksonville; Lorie Ingraham, James Crutchfield, Ph.D., Lockheed Martin Mission Systems and Training

Analyze This
Session Chair: Bill Gerber, Ph.D., WJ Gerber Consulting
Session Deputy: Matthew Hackett, Ph.D., ARL HRED STTC
Work Domain Analysis for Ecological Interface Design of Tangible Interfaces (15130) Michael W. Boyce, Ph.D., Robert A. Sottilare, Ph.D., Benjamin Goldberg, Ph.D., Charles Amburn, ARL HRED STTC

Adaptive Testing: Adapt and Overcome the Shortfalls of Traditional Proficiency Assessments (15196) Robert McLaughlin, Steven Gunter, Ph.D., Camber Corporation; Jeff Pearson, Veterans Benefits Administration

Cognitive Load Assessment for Intelligence Analysts through Full Motion Video Analytics (15142) Elizabeth Wilson, Chenega Technical Innovations, LLC; Upesh Patel, U.S. Army Intelligence

Do You Understand?
Session Chair: John Schlott, L-3 Communications
Session Deputy: Todd Glenn, FAAC, Inc.
Multi-measure Assessment of Internal Distractions on Driver Performance (15017) Kevin F. Hulme, Ph.D., Center for Engineering Design and Applied Simulation; Karen L. Morris, The Center for Children and Families; Gregory A. Fabiano, Ph.D., Department of Counseling, School and Educational Psychology; Mark G. Frank, Ph.D., Department of Communications; Rebecca J. Houston, Ph.D., Research institute on Addictions; Panos Ch. Anastasopoulos, Department of Civil, Structural and Environmental Engineering, The State University of New York-University at Buffalo

Measuring Trust of Autonomous Vehicles: A Development and Validation Study (15049) David R. Garcia, Christine Kreutzer, Karla A. Badillo-Urquiola, University of Central Florida, Psychology Department

Building Trust in a Human-Robot Team with Automatically Generated Explanations (15315) Ning Wang, Ph.D., David V. Pynadath, Ph.D., University of Southern California

Nominated for Best Paper Award
Game-related Subject Matter
Honorable Mention for Best Paper Award
International Author
Continuing Education Units (see pg. 12)
Cyber Security
Medical-related Subject Matter
Mobile

2015 INTERSERVICE/INDUSTRY TRAINING, SIMULATION & EDUCATION CONFERENCE
H-6 WEDNESDAY, 2 DECEMBER • 1600-1730 • S320E

Flight Life
Session Chair: Dennis Vincenzi, Ph.D., ERAU Worldwide
Session Deputy: Maureen Bergondy-Wilhelm, NAWCTSD

Helicopter Pilot’s Modeling Including the Stress Factor (15168) ✪ Antoni Kopyt, Warsaw University of Technology

Human-in-the-Loop Flight Simulation Study of Virtual Constructive Representation on Live Avionics Displays (15197) ✪ Thomas Schnell, Ph.D., University of Iowa; Angus L.M. Thom McLean, Ph.D., Scott Rediger, Rockwell Collins Advanced Technology Center

Practical Recommendations for Validating Survey Apparatus in Coalition Training Environments (15299) ✪ Emilie Reitz, Alion Science and Technology

H-7 THURSDAY, 3 DECEMBER • 0830-1000 • S320E

Is That Your Final Decision?
Session Chair: Eric Jarabak, MARCORSYSCOM PM TRASYS
Session Deputy: Steve Monson, The Boeing Company

Stealth Assessment of Problem-Solving Skills from Gameplay (15212) ✪ Weinan Zhao, Valerie Shute, Ph.D., Lubin Wang, Florida State University


H-8 THURSDAY, 3 DECEMBER • 1030-1200 • S320E

From the Halls of Montezuma
Session Chair: Jerry Stahl, Cypress International
Session Deputy: Sherrie Jones, Ph.D., MARCORSYSCOM PM TRASYS

MarineNet User Engagement Exercise (15011) Maj Michael A. Gavin, USMC, Marine Corps University, College of Distance Education & Training

Supporting Unit Training Management Through Mobile Performance Assessment Tools (15034) ✪ Courtney Dean, Matthew Puglisi, Jared Freeman, Ph.D., Aptima, Inc.


H-9 THURSDAY, 3 DECEMBER • 1330-1500 • S320E

Experience Counts
Session Chair: Randy Jensen, Stottler Henke Associates, Inc.
Session Deputy: Dennis Vincenzi, Ph.D., ERAU Worldwide

Realism and Effectiveness of Robotic Moving Targets (15118) ✪ Elizabeth Uhl, Ph.D., Martin Bink, Ph.D., U.S. Army Research Institute; David James, Northrop Grumman Technical Services

Soldier Physiological Changes of Shooting Performance in the Tank Simulator (15192) ✪ Li-Wei Ko, Ph.D., Peng-Wen Lai, Yi-Cheng Shih, Shih-Chuan Lin, Meng-Shun Yang, Ching-Teng Lin, Ph.D., National Chiao Tung University; In-Chung Chang, MND Taipei

Novice and Experience Police Officer Simulation Experience: Guiding the Future (15370) ✪ Amanda Davies, Ph.D., Charles Stuart University

POLICY, STANDARDS, MANAGEMENT, AND ACQUISITION

The Best Paper for this category will be presented on Wednesday in Room S320A at 1400

MEASURING VIRTUAL SIMULATION’S VALUE IN TRAINING EXERCISES – USMC USE CASE (15114)

P-1 TUESDAY, 1 DECEMBER • 1400-1530 • S320F

Enterprise, Architecture, and Standards
Session Chair: Jan Drabczuk, JD Defense Solutions, LLC.
Session Deputy: Harry Somotayan, U.S. Army PEO STRI

The Live-Synthetic Training and Test & Evaluation Enterprise Architecture (15076) ✪ Paul Dumanoir, U.S. Army PEO STRI; Jeff Bergenthal, David Drake, the Johns Hopkins University Applied Physics Laboratory

Early Adoption of Common Operating Environment (COE) Standards and Guidelines (15098) ✪ Robert Wittman, Ph.D., Burt Grippin, Sean Barie, Chris Holmes, MITRE Corporation; Amit Kapadia, Paul Dumanoir, U.S. Army PEO STRI

P-2 TUESDAY, 1 DECEMBER • 1600-1730 • S320F

Design, Build, Track and Train – Here and Abroad
Session Chair: Mary Trier, Capital Communications and Consulting
Session Deputy: Richard Grohs, USAF HQ Air Combat Command

Sejong the Great Class DDGs: How ROK Navy Trained and Embraced Them (15032) ✪ LCDR Junho Eum, Sangyoon Oh, Ph.D., Ajou University; CAPT Minsoo Yang, Republic of Korea Navy Headquarters

A System-Model-Centric Collaborative Environment for the Acquisition Lifecycle (15093) ✪ James E. Coolahan, Ph.D., Coolahan Associates, LLC.; Jeffery J. Bergenthal, John Hopkins University Applied Physics Laboratory
PAPERS AND AUTHORS

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(15080) Automated Surveys: Lowering the Respondent’s Burden
Simulation Center
School; Lt Col Floy A. Yates, Jr., USMC, MAGTFTC Battle
Yet? (15256)
Large Scale Adoption of Training Simulations: Are We There
Ph.D., Georgia Tech Research Institute
Rodriguez, MARCORSYSCOM PM TRASYS; Steven Gordon,
DynamX Consulting; Greg Seavers, John Roth, Jose
Future (15270)
Robson, Ph.D., Eduworks Corporation

P-4 WEDNESDAY, 2 DECEMBER • 1400-1530 • S320F
Getting Your Money’s Worth
Session Chair: Larry Rieger, SAIC
Session Deputy: Emilie Reitz, Alion Science & Technology
Calculating Simulation-Based Training Value: Cost
Avoidance and Proficiency (15199) Tim Cooley, Ph.D.,
DynamX Consulting; Greg Seavers, John Roth, Jose
Rodriguez, MARCHYSOCOM PM TRASYS; Steven Gordon,
Ph.D., Georgia Tech Research Institute
Large Scale Adoption of Training Simulations: Are We There
Yet? (15256) Angela Sadagic, Ph.D., Naval Postgraduate
School; Lt Col Floy A. Yates, Jr., USMC, MAGTFTC Battle
Simulation Center
Automated Surveys: Lowering the Respondent’s Burden
(15080) Richard Kist, Igor Franken, National
Aerospace Laboratory (NLR)

P-5 WEDNESDAY, 2 DECEMBER • 1600-1730 • S320F
Solutions
Session Chair: Robby Robson, Ph.D., Eduworks Corporation
Session Deputy: Kevin Hulme, Ph.D., University at Buffalo
Risk Management Framework (RMF) Transition Impacts in
Training Simulation Systems (15009) Graham Fleener,
Marco Mayor, U.S. Army PEO STRI; Cliff Zou, Ph.D.,
University of Central Florida
Cybersecurity Controls: Then and Now (15010) Marco
Mayor, U.S. Army PEO STRI
Cybersecurity Challenges and Resolutions for Simulator
& Training Systems (15063) Douglas E. Wedel, Ilya
Lipkin, Lt. Luis Cintron, USAF

P-3 WEDNESDAY, 2 DECEMBER • 1030-1200 • S320F
Developing Competency – The Future for M&S
Session Chair: Jeffrey A. Raver, SAIC
Session Deputy: Tara Kilcullen, Raydon Corporation
Improving Education, Training and Career Advancement
through Competency Portability (15117) Robby
Robson, Ph.D., Eduworks Corporation
STEmulating: An Integrated Approach to Cultivating Our
Future (15270) Elizabeth Biddle, Ph.D., Central FL STEM
Education Council; Carol Ann Dykes, University of Central
Florida; Shawn Harris, Ph.D., Universal Orlando Resort;
Robert Seltzer, NA WCTSD; Abdul Siddiqui, U.S. Army PEO
STRI
Modeling and Simulation Professionals – Meeting the
Demand (15342) Lisa Jean Bair, James J. Jackson, SAIC

LEGEND (one or more of the following may appear on this page).
The number in parentheses following Paper Title is the ID tracking number.
$$$$ Nominated for Best Paper Award
$$ Game-related Subject Matter
$$ Honorable Mention for Best Paper Award
$$ International Author
$$ Continuing Education Units (see pg. 12)
$$ Medical-related Subject Matter
$$ Cyber Security
$$ Mobile

All Papers are eligible for CEU/CLP credits. (See page 12)
From Reality to Simulation  
Session Chair: Mark Soodeen, CAE  
Session Deputy: Ron Dionne, FLETC  

Network Bandwidth’s Effect on Virtual World Simulator Performance Optimization (15360)  
Sean C. Mondesire, Ph.D., Douglas B. Maxwell, ARL HRED STTC; Jonathan Stevens, Ph.D., University of Central Florida  

3D Immersive Environment Using X-Plane for Depth Perception Research (15261)  
Logan A. Williams, Ph.D., Charles T. Bullock, Marc D. Winterbottom, Ph.D., James P. Gaska, Ph.D., Steven C. Hadley, MD, USAF School of Aerospace Medicine; Charles J. Lloyd, Ph.D., Visual Performance, LLC; Michael P. Browne, Ph.D., SA Photonics  

Battle Damage Computation Server (15051)  
Hung Tran, Tactical Systems, CAE USA  

Innovation in Environmental Modeling  
Session Chair: Roy Scrudder, The University of Texas at Austin, Applied Research Laboratories  
Session Deputy: Robert Dixon, U.S. Army PEO STRI  

High Fidelity Wind Model Software for Real-Time Simulation Platforms (15362)  
Jaime Sanchez, Juan Pelaez, Ph.D., SimSpace Ingenieria, S.L.  

Automated Runtime Terrain Database Correlation Assessment (15218)  
Jeremy P. Joseph, Andrew Tosh, GameSim, Inc.; Benito Graniela, Ph.D., NA WCTSD  

Automated Modelization in Terrain Database Production (15290)  
Stephen Eckman, GameSim, Inc.; Ronald Moore, Leidos; Mark Johnson, U.S. Army PEO STRI; Jaeson Munro, PAI  

Human Interface to Artificial Intelligence  
Session Chair: Gerald Dreggors, Northrop Grumm Corporation  
Session Deputy: Brad Cope, NA WCTSD  

Modeling CGF Behavior with Machine Learning Techniques: Requirements and Future Directions (15128)  
Armon Toubman, Ph.D., Gerald Poppinga, Jan Juris Roessingh, Ph.D., National Aerospace Laboratory NLR; Ming Hou, Ph.D., Defence Research and Development Canada; Linus Loutsinen, Ph.D., Swedish Defence Research Agency FOI; Rikke Amilde Lövlid, Ph.D., Norwegian Defence Research Establishment (FFI); Christophe Meyer, Ph.D., Thales; Roel Rijken, Dutch Ministry of Defence; Micha Turcanik, Ph.D., Armed Forces Academy Liptovský Mikuláš, Slovakia  

Automatic Speech Recognition in Training Systems: Misconceptions, Challenges and Paths Forward (15205)  
Brian Stensrud, Ph.D., Charles Newton, Soar Technology, Inc.; Beth Atkinson, John Killilea, NA WCTSD  

On the Peripheral Application of Head Mounted Display (HMD) Devices in Infantry Simulation (15186)  
Tomer J. Michael, IDF GFC Battle-Lab  

Next Gen LVC  
Session Chair: Robert Kleinhample, SAIC  
Session Deputy: Gordon King, Intelligent Decisions, Inc.  

M&S Training Transformation: Bridging the Next Generation Joint LVC (15167)  
Bruce Uphoff, Camber Corporation; Michael Koscielniaik, Los Alamos National Laboratory; Brian Gregg, Karl Hines, Joint Staff J7; John Mizelle, Daniel Leigeber, Intelligent Decision Systems, Inc.  

Leveraging Cloud Computing Technology for LVC Training (15101)  
Paul Dumanoir, U.S. Army PEO STRI; Henry Marshall, ARL HRED STTC; Robert Wells, Dynamic Animation Systems; Jeff Truong, Effective Applications Corporation  

Osseus, An Experiment in What’s Next in LVC M&S Architecture (15085)  
Mark Riecken, Ph.D., John Rutledge, Trideum Corporation; Derrick Franceschini, StakFrame, LLC; Scott Gallant, Effective Applications; Walter Barge, OSD Force Readiness and Training  

Simulation Supported Training  
Session Chair: Scott Hooper, Havok, an Intel Company  
Session Deputy: Lisa Jean Bair, SAIC  

Embarking on a Home Station Training Revolution (15176)  
Anthony J. Cerri, U.S. Army TRADOC; Mathew N. McMillan, Alan J. Knox, CGI Federal  

Implementation of Role-Based Command Hierarchy Model for Actor Cooperation (15166)  
Jungyoon Kim, Ph.D., Hee-Soo Kim, Ph.D., REALTIMEVISUAL, Republic of Korea; Sangjin Lee, Ph.D., Samjoon Park, Ph.D., Agency for Defense Development, Republic of Korea  

Innovative Division/Brigade Level CO Training Solution for Influence Operations (15107)  
Ariane Bitoun, Romain Bosa, MASA Group; Tahar Hannachi, Université Pierre et Marie Curie; Lionel Khimeche, Direction Générale de l’Armament
UAS Engineering Design Simulation
Session Chair: Ron Dionne, FLETC
Session Deputy: Jerry Gordon, Cubic Global Defense
Corporation

Reduction Operational Risk through Better Performance Testing (15138) • Tom Wilson, Lockheed Martin

Design of an Educational Tool for Unmanned Air Vehicle Design and Analysis (15086) • Brian Sanders, Ph.D., Brent Terwilliger, Ph.D., Ken Witcher, Mark Leary, Embry-Riddle Aeronautical University; James Ohlman, Christina Tucker, Pinnacle Solutions

Using Simulation to Test Manned-Unmanned Teaming (15112) • Michael J. O’Connor, Trideum Corporation; Kenneth LeSueur, Ph.D, Mark Ebert, Sean Millich, Redstone Test Center; Fred Ventre, CTs; Tom Punihao, Scalable Network Technologies

Preparation Through Virtualization
Session Chair: Brent Terwilliger, Ph.D., Embry-Riddle Aeronautical University
Session Deputy: Randy Crowe, Ph.D., Lockheed Martin Mission Systems and Training

Design and Development of a General Virtual Maintenance Training Platform (15312) • Xingxin Li, Ph.D., Jianping Hao, Fei Ye, Shijiazhuang Mechanical Engineering College, P.R. China; Xu Yang, The University of Tennessee

Virtual Environment Computer-Based Training for Bridge and Tunnel Inspections (15276) • Steve Ianni, Engility Corporation; Mary P. Rosik, Michael Baker International

Developing Authoring Tools for Skills Models that Enable Adaptive Game-Based Maintenance Training (15129) • Sean Guarino, Peter Weyhruch, Ph.D., James Niehaus, Ph.D., Charles River Analytics, Inc.

Soldier Representation
Session Chair: Lisa Jean Bair, SAIC
Session Deputy: Bradley Ehrhardt, NAVCSTD

Toward Acquiring a Human Behavior Model of Competition vs Cooperation (15316) • David V. Pynadath, Ning Wang, Ph.D., Chirag Merchant, USC Institute for Creative Technologies

Embedded Simulation to Simulate and Improve Soldier Performance (15054) • Jonathan Stevens, Ph.D., University of Central Florida; Latika Eifert, ARL HRED STTC; Timothy Baldwin, EOIR Technologies; Oleg Umansky, Boris Stilman, Ph.D., STILMAN Advanced Strategies

The Business of Simulations
Session Chair: Randy Crowe, Ph.D., Lockheed Martin Mission Systems and Training
Session Deputy: Greg Sidor, AFRL

A MBSE Approach in Modeling Systems Using Hybrid Simulation Techniques (15368) • Asli Soyler Akbas, Waldemar Karwowski, Ph.D., University of Central Florida

Simulator Architecture Upgrade Utilizing Virtual Machines (VMs) (15219) • Thomas Bridgman, National Technologies Associates; Elizabeth Gaugler, USAF Simulators Division

Improved Process for Bridging the Technology Transition Valley of Death (15033) • Henry Marshall, ARL HRED STTC; Paul Dumanoir, U.S. Army PEO STRI; Robert Wells, Dynamic Animation Systems; Bob Burch, Digits Technologies, LLC; Jeff Truong, Effective Applications Corporation

Designing for Training Effectiveness
Session Chair: Susan Coleman, Ph.D., Intelligent Decision Systems, Inc.
Session Deputy: Graham Fleener, U.S. Army PEO STRI

Measuring Training Effectiveness of Lightweight Game-based Constructive Simulation (15007) • Jonathan Stevens, Ph.D., Stephen Serge, Ph.D., Dean Reed, University of Central Florida; Latika Eifert, ARL HRED STTC; Boris Stilman, Ph.D., University of Colorado; Oleg Umansky, Ph.D., STILMAN Advanced Strategies

Validating Scenario-based Training Sequencing: The Scenario Complexity Tool (15102) • Robb Dunne, Ph.D., Innovative Reasoning, LLC; Stephen A. Sivo, Ph.D., University of Central Florida; Nathan Jones, MARCORSYS/COM PM TRASYS

Adaptive Instructor Operating Stations: Design to Decrease Instructor Workload and Increase Effectiveness (15336) • James A. Pharmer, Ph.D., Laura M. Milham, Ph.D., NAVCSTD; John A. Valaitis, John Winters, Basic Commerce and Industries, Inc.

The Best Paper for this category will be presented on Wednesday in Room S320A at 1030

DISTRIBUTING MEASURES OF LEARNING (MOL) FROM MEASURES OF PERFORMANCE (MOP) DURING AIRCRAFT CARRIER LANDING PRACTICE (15210)
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<th>Session</th>
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<td>T-2</td>
<td>Tuesday, 1 December</td>
<td>1600-1730</td>
<td>S320A</td>
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<td>VR, AR, and AV for Training “Reality”</td>
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<td>Session Chair: Paul Lyon, Esterline Simulation Visual Systems</td>
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<td>Session Deputy: Robert Wallace, USAF Air Combat Command</td>
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<td>Training Effectiveness Evaluation of Augmented Virtuality for Call for Fire Training: Insights from a Novice Population (15014)</td>
<td>Julie N. Salcedo, Ph.D., Stephen R. Serge, Ph.D., Stephanie J. Lackey, Ph.D., Jonathan Hurter, University of Central Florida Institute for Simulation and Training; Roberto Champney, Ph.D., Design Interactive; Gino Fragomeni, ARL HRED STTC</td>
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<td>Empirically Derived Recommendations for Training Novices Using Virtual Worlds (15038)</td>
<td>Crystal S. Maraj, Ph.D., Stephanie J. Lackey, Ph.D., Karla A. Badillo-Urquiolo, Sherry L. Ogreteen, University of Central Florida, Institute for Simulation and Training; Douglas B. Maxwell, ARL HRED STTC</td>
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<td>Using Augmented Reality to Tutor Military Tasks in the Wild (15050)</td>
<td>Joseph J. LaViola, Ph.D., Brian M. Williamson, Conner Brooks, Sergiu Vezachin, University of Central Florida; Robert Sottolare, Ph.D., Pat Garrity, ARL HRED STTC</td>
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<td>T-3</td>
<td>Wednesday, 2 December</td>
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<td>S320A</td>
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<td>Physician Know Thyself! Enhancing Surgical Team Skills through Gaming and Simulation</td>
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<td>Session Chair: Robert Heinlein, 3D Systems</td>
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<td>Session Deputy: Kerri Chik, TIER1 Performance Solutions</td>
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<td>Developing Game-Based Leadership Training for Robotic Surgeons (15198)</td>
<td>Roger Smith, Ph.D., Alyssa D. S. Tanaka, Florida Hospital Nicholson Center; Steve McIlwan, Brad Wilson, Applied Research Associates, Inc.</td>
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<td>The Use of Hyper-Realistic Surgical Simulation (15244)</td>
<td>Anthony J. LaPorta, M.D., FACS, Douglas Robinson, MS4, Mark Lea, FACS, Rocky Vista University School of Medicine; Charles Hutchinson, DO, U.S. Army; Reginald Franciose, M.D., FACS, Lawrence Gaul, M.D. FACS, Vail Valley Medical Center; Roy Alson, M.D., Ph.D., Wake Forest University; Michael Czekajlo, M.D., Ph.D., Hunter Maguire VA Hospital, Virginia Commonwealth University; Douglas Granger, Ph.D., Arizona State University and Salimetrics, Inc.; Alan Moloff, D.O., USA (Ret), Aerospace Medicine; Tian Hoang, M.D., FACS, Commander, U.S. Navy. San Diego</td>
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<td>T-4</td>
<td>Wednesday, 2 December</td>
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<td>Team Building: All for One and One for All</td>
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<td>Session Chair: Brian Cairns, Moulage Sciences &amp; Training</td>
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<td>Assessing the Effects of Virtual Emergency Training on Mine Rescue Team Efficacy (15119)</td>
<td>Cassandra Hoebbel, Ph.D., Tim Bauerle, Brendan Macdonald, Launa Mallett, Ph.D., The National Institute for Occupational Safety and Health</td>
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<td>Evaluating Distributed Teams with the Team Multiple Errands Test (15264)</td>
<td>Jamiahus Walton, Stephen Gilbert, Ph.D., Eliot Winer, Ph.D., Michael Dorneich, Ph.D., Desmond Bonner, Iowa State University</td>
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<td>T-5</td>
<td>Thursday, 3 December</td>
<td>0830-1000</td>
<td>S320A</td>
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<td>Where’d Who Go? – Operational Considerations for LVC Training</td>
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<td>Session Chair: Bill (Roto) Reuter, R-Squared Solutions, LLC</td>
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<td>Session Deputy: Daniel Cain, OPNAV N98</td>
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<td>Exercise Management Considerations for Live, Virtual, and Constructive (LVC) Training (15281)</td>
<td>Katherine P. Kaste, Kelly Neville, Ph.D., Melissa M. Walwanis, NAWCTSD; Amy E. Bolton, Ph.D., Office of Naval Research</td>
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<td>Capability Assessment of Test and Live Training Systems for Real Time Casualty Assessment (15364)</td>
<td>Joan H. Johnston, Ph.D., ARL HRED STTC; Margaret D. Nolan, NAWCTSD; Jake Caldwell, University of Central Florida</td>
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<td>ISR, CRM, TDM, Oh My! – Different Domains, Universal Strategies</td>
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<td>Session Chair: Anne Little, Ph.D., Addx Corporation</td>
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<td>Session Deputy: Jeffrey Beaubien, Aptima, Inc.</td>
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<td>Improving Military Crew Resource Management Using a Commercial Strategy Game (15097)</td>
<td>Christopher Roos, Jelke van der Pal, Ph.D., Ghanshaam Sewnath, Johan Meijer, National Aerospace Laboratory NLR; Lt Col Michel de Ricevourt, Centre for Man in Aviation CML, Royal Netherlands Air Force</td>
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<td>Simulation and Training Challenges for Intelligence, Surveillance and Reconnaissance Analysts (15175)</td>
<td>Lisa Tripp, Ph.D., Elliott Humphrey, Christine Covas-Smith, Ph.D., Jonathan Diemunsch, USAF Air Force Research Laboratory; Mike Garrity, Ph.D., Cullen Jackson, Mike Keeney, Ph.D., Sterling Wiggins, Aptima, Inc.</td>
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<td>Effectiveness of Process Level Feedback at Training Tactical Decision Making (15201)</td>
<td>Meredith Carroll, Ph.D., Christina K. Padron, Stephanie Quinn, Ph.D., Glenn Surpris, Brent Winslow, Ph.D., Design Interactive, Inc.; Erica Viklund, Ph.D., Pacific Science and Engineering</td>
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