

TUESDAY, 1 DECEMBER 2009

Session/Chair		1400	1430	1500
304 AB	EC-1 It's Just Like Being There Matt Spruill	Go With the Flow: Engagement and Learning in Second Life (9346) 📖 📢	2010: The Perfect Storm for Web 3D Simulators and Games (9077) 📢	Machinima Technology: Serious Games Lite (9288) 📢
304 CD	ED-1 Did I Do That? Mary Trier	Mission Readiness Skills Verification for Today's Military (9208)	The After Action Review Through the Eyes of Practitioners at the National Training Center (9103)	Evaluation and Outcomes of a Novel AAR Scoring Methodology (9068)
304 EF	EC-2 Detection, Visualization & Virtualization - Tomorrow's Technology Today Patrick Imlay	Persistent Dismount Detection Using Distributed Sensors (9002)	Exploiting FPGA Technology for Visual Systems (9095) 📖	Leveraging SAN and Server Virtualization in Simulation Training Environments (9201)
304 GH	T-1 Because I Said So Scott Ariotti	Lessons Learned - Training Technologies in Canadian Hornet Maintenance Training (9322) →	Ten Challenges for the Future of Computer Based Training (9342) 📖 ✍️	Distributed Synthetic Air-Land Training - Demonstration to Delivery (9363)
307 AB	S-1 Improving Simulation Interoperability Robert Lutz	In Search of Greater Homogeneity in the Simulation Community (9152) ✍️	Cross Domain Solution Challenges Transitioning From Concept to Operations (9133)	Toward Interoperability between Test and Training Enabling Architecture (TENA) and Distributed Interactive Simulation (DIS) Training Architectures (9473) 📖 📢
307 CD	H-1 Assessing Combat Decisions Oscar Garcia	Communications Assessment at an Air Force Exercise: Specific Results, Larger Implications (9444)	Decision Making with Digital Systems (9197) 📖 ✍️	Assessing Performance in a Simulated Combat Information Center (9333) 📖
Session/Chair		1600	1630	1700
304 AB	H-2 Heads Up - Watch the Interface! Catherine Emerick	Improving the Utility of a Binocular HMD in a Faceted Flight Simulator (9178) 📖 📢	Measurement and Mitigation of Latency in Next Generation Helmet Mounted Displays (9117) 📖	Design of a Common UAS Operator Interface: An Exploratory Analysis (9250)
304 CD	ED-2 Back to the Future Chuck Secard	The FCS Cognitive Landscape: Identifying and Training FCS Cognitive Requirements (9233) 📖	5th Generation Aircraft Tactical Training Resources (9153)	Competency-Based Design of F-16 Qualification Training (9046) →
304 EF	EC-3 It's Storytime! Beth Biddle	Just in Time Lessons Learned: Timely Retrieval of Operational Vignettes (9174) 📖	Contemporary Operating Environment (COE) in Military Planning for Training Exercises (9408)	Behavioral Threads: Coordinated Synthetic Team Behavior for Small Group Training (9426)
304 GH	T-2 Blending In: Training Culture Bob Johnson	Cultural Awareness Training Standards for Serious Games (9030) 📖 📢	Serious Games for Second Language Retention (9164) 📢	The First Person Cultural Trainer (9243) 📖 📢
307 AB	S-2 Controlling a Crowded World Michael Powell	Non-Lethal Effects and Crowd Behavior M&S Test Bed (9207)	Calibrating and Validating Large Scale Agent-Based Simulations of Populations (9128)	Enabling Psychological Operations in Simulation (9066)
307 CD	P-1 Standards: Common Threads Annie Patenaude	Developing a Process for M&S Standards Management within DoD (9397) 📖 ✍️	Benefits to the Simulation Training Community of a New ANSI Standard for the Exchange of Aero Simulation Models (9019) 📖 📢	A Technical Development Strategy for Bridging S1000D™ and SCORM® (9136) 📖

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/Tutorial Award

✍️ Honorable Mention for Best Paper Award

→ International Author

📖 Continuing Education Units (see pg. 13)

📢 Medical-related Subject Matter

📖 Standards-related Subject Matter

📢 Gaming-related Subject Matter

PAPER SESSIONS

WEDNESDAY, 2 DECEMBER 2009

Session/Chair		0830	0900	0930
304 AB	T-3 Looking Back To Move Ahead Mark Soodeen	After Action Review Tools for Team Training with Chat Communications (9256) 🗣️ 📄	Enhanced Mission Record and Review System for Distributed Mission Operations (9341) 📄	Capture of Qualitative Exercise Data with Integrated After Action Analysis (9184) →
304 CD	ED-3 Taking Games Seriously Tom Mastaglio	A Framework for Promoting High Cognitive Performance in Instructional Games (9054) 📄	Positively Gaming the System: A VBS2™ Training Case Study (9165) 📄 📄	A Conceptual Framework for Assessing Performance in Games and Simulations (9281) 📄
304 EF	EC-4 Cultural Competence Central: Mission Success Begins Here Martin Bushika	Cultural Training: The Web's Newest Gaming Frontier (9092) 📄	Culture on the Front Line: Dimensions that Matter (9443) 📄	Developing a Social Complexity Framework for Immersive Task Training (9460)
304 GH	T-4 Simulated Meds Vince Eddards	Team Training for Medical Military Teams: Using Simulation to Improve Teamwork (9314) 📄 📄	Training Healthcare Providers to Confront Diversity in Clinical Settings (9331) 📄 📄	Military Observation: Perceptual Skills Training Strategies (9287)
307 AB	S-3 Winning The Fight At Home: Simulation Support to DHS Buck Leahy	Results of a Simulation of Response to a Bioterrorism Crisis (9456) 📄 📄	Enabling Homeland Security with Modeling & Simulation (M&S) (9412)	Overview of MSA Needs for Homeland Security (9505)
307 CD	P-2 Distributed Simulation Without Borders Bob Kleinhample	Effective Use of Simulation Means in Collective Mission Simulation (9198) →	Managing Distributed Training Events – Lessons Learned from the Mission Training through Distributed Simulation Capability Concept Demonstrator (9365) →	Improved Distributed I&T Efficiency Through Automated Testing (9327)
Session/Chair		1030	1100	1130
304 AB	P-3 Rest Assured Jim Runk	Implementing Information Assurance – Beyond Process (9367) 🗣️ 📄	Cross Domain Solution (CDS) Certification and Accreditation for Persistent, Simulation Training (9142) 📄 📄 📄	Fielding Simulation and Training Systems Legally Without Accreditation (9140) 📄 📄
304 CD	ED-4 The World at War: Applying Today's Warfare Lessons Bill Walsh	Development and Validation of Training Themes for Joint, Interagency, Intergovernmental and Multinational (JIIM) Operations (9194) 📄	Applying Current Wars' Lessons to Training and Education (9039)	Cross-Cultural Competence in the U.S. Air Force: Roles, Challenges and Skills in the Contemporary Operating Environment (9193)
304 EF	EC-5 We're Not Just Playing Around Kristy Murray	Exploring the Use of a Massive Multiplayer Game (Mmpg) to Train Infantry Company Commanders (9007) 📄	Applying High-Cognitive vs. High Physical Fidelity within Serious Games (9055) 📄	Beyond Game Effectiveness Part I: an Empirical Study of Multi-role Experiential Learning (9482) 📄
304 GH	T-5 Got a Complex Skill? We Can Train It! Lisa Holt	Generalizability of the Deliberate Practice Technique for Training Higher-Order Skills (9038) 📄 📄	Teamwork Training for Tactical Operations Center Battle Staffs (9148)	Cognitive Air Defense Training System: A Situational Awareness Toolset for Air Defense Instruction (9420)
307 AB	S-4 Seeing Better Bill Gerber	Automating Extraction of 3D Detail from GIS Data Using Semantic Web Technology (9171) 📄 →	Evaluation of Game-Based Visualization Tools for Military Flight Simulation (9240)	PhysX Extended: An Integrated Real-Time Physics and Terrain Solution (9391)
307 CD	H-3 Calling Dr. I/ITSEC Shannon Wigent	Building Team Briefing Cycles in Healthcare: A Full-Spectrum Approach (9394) 📄 📄	Critical Care Air Transport Teams (CCATT): Improving Performance through Simulation (9151) 📄 📄 📄	Patient Safety in the OR: Improving Team Coordination and Communication (9257) 📄 📄

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WEDNESDAY, 2 DECEMBER 2009

Session/Chair		1400	1430	1500
304 AB	ED-5 Real Men Ask Directions Carlton Hardy	Assessment of Educational Visual Storytelling at the Smithsonian (9445) 📄 📄	Ensuring Mobile Devices Deliver Mobile Support: Are We There Yet? (9101) 📄	Intelligent Reading Tutor for Improving Reading Comprehension and Content Learning (9436)
304 CD	EC-6 Say It Again, Sam Kevin Cahill	Scenario-Based Conversational Intelligent Tutoring Systems for Decision-Making Skills (9119)	FLOPS per Watt: Heterogeneous-Computing's Approach to DoD Imperatives (9484)	
304 EF	EC-7 Lean Training: Thin to Win Matt Kraus	An Adaptive Learning Architecture for Next Generation Simulation Training Systems (9320)	Serious by Design: An Inclusive Model for Understanding Learning Games (9478) 📄	Bite-Sized Gaming: Using Mini-Games for Full Sized Learning (9470) 📄
304 GH	T-6 Game Up: Call to Duty and Beyond Jim Threlfall	Combat Development & Fielding of Gaming Technologies to Enhance Army Training (9447) 📄	Using Simulation to Train Influence (9466)	QuickStrike ASOC Battlefield Simulation: Preparing the Warfighter to Win (9144)
307 AB	S-5 Improving Operations Larry Rieger	Object Model Composability and Multi-Architecture LVC Interoperability (9014) 📄	Use of Modeling and Simulation in Time-Critical Planning/Replanning (9023) 📄 📄	Aerial Refueling in a DMO Environment (9366) 📄 ✍️ 📄
307 CD	H-4 Whole > Σ Parts Gordon Gattie	Competencies: Making Them "Work" for the Navy's Total Force (9076) 📄	Analyzing Community of Practice Metrics to Enhance Organizational Effectiveness (9172)	Small Unit Performance in DHS (9145)
Session/Chair		1600	1630	1700
304 AB	S-6 Medical & Beyond Traci Jones	Task Specific Simulations for Medical Training: Fidelity Requirements Compared with Levels of Care (9121) 📄 📄 📄	Severe Trauma Stress Inoculation Training for Military Medics using Simulated Static and Dynamic Battlefield Injuries (9132) 📄	Use of Modeling and Simulation in Software TRL Evaluations (9156)
304 CD	ED-6 Best Papers from Around the Globe John Huddlestone	SimTecT 2008 Best Paper Network Effects in Epidemiology →	SimTecT 2009 Best Paper This Strange Dominant Logic - Decoding Behaviour Under Stress →	ITEC 2009 Excellence Award Winner Cross-Cultural Interpersonal Communication →
304 EF	EC-8 Data Effects on Rendering Nephi Lewis	Automated Reconstruction of Synthesized Environments from Complex Point Cloud Datasets (9169) 📄	Realistic Reflections for Marine Environments in Augmented Reality Training Systems (9210) 📄	Multiple-Domain Correlation Without Highly Structured Standardization of Data (9348) 📄
304 GH	T-7 Top of Our Game Paul Eckert	Investigating the Effectiveness of Game-Based Approaches to Training (9260) 📄 📄	Designing and Developing Effective Training Games for the U.S. Navy (9477) 📄 📄	Learning Anti-Submarine Warfare with a Game-Like Tactical Planner (9275) 📄
307 AB	EC-9 Training & Assessment Infrastructure George Stone	Automated Performance Assessment and Adaptive Training for Training Simulators with SimSCORM (9202) →	Multinational Federated ADL Search and Retrieval - II: Sharing Across NATO (9403) →	Next-Generation Live Virtual Constructive Architecture Framework (LVCAF) (9015)
307 CD	H-5 Group or Groping: So Close Yet So Far Away Bob Wallace	Assessing the Needs of the Warfighter in Distributed Collective Training Simulations (9371) →	Issues in Deployment of Serious Games (9064) 📄	Field Evaluation of Advanced Features for an Aircraft Interactive Electronic Technical Manual (9196) 📄 →

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📄 Medical-related Subject Matter

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📄 Gaming-related Subject Matter

PAPER SESSIONS

THURSDAY, 3 DECEMBER 2009

Session/Chair		0830	0900	0930
304 AB	T-8 Finding the Balance: Live vs Simulated Training Maureen Bergondy-Wilhelm	Balancing Simulated and Live Naval Fleet Training (9016)	Defining the Training Mix – Sorties, Sims, and Distributed Mission Operations (9166)	Applying Low-Cost Simulation to Training of Construction Equipment Operators (9270)
304 CD	ED-7 Festivus – ISD for the Rest of Us Ed Coyl	Collective Training Needs Analysis - A New Analytical Framework (9485) 📄 →	Modeling and Instructional Simulation Design (9179)	Outcomes-Based Training and Education: Formative Assessment (9131)
304 EF	EC-10 Human Terrain Meets Social Networks Richard Boyd	Training Effect Based Reasoning; Developing a Next Generation of Training Simulators (9031)	Modeling Human Modifier Diffusion in Social Networks (9139) →	Generating Human Terrain for Agent-Based Models (9370)
304 GH	T-9 One Team One Fight Nicholas Navetta	Simulation to Assess an Unmanned System's Effect on Team Performance (9105)	Collective Training & Thinking in JAMD: The Italian JPOWX Experience (9216) →	Supporting Collective Training & Thinking in Joint Project Optic Windmill (9222) →
307 AB	S-7 Improving Training Tom Stanzone	Collective Training - Collective Thinking: Using Innovative Adaptive Simulation in Exercises (9111) →	Mobile, Hand-Held Support Devices for the Dismounted Future Warrior (9225)	Enabling Distributed Mission Training (9401) →
307 CD	P-4 Exploring New Domains Stacy Pierce	Effective Acquisition of Virtual Worlds; Ensuring Return on Investment (9081) 📄 📢	The Legal Fork In The OTD Roadmap – What Lies Ahead? (9390) 📄	Relevance of Doctrinal Feedback Loops to Operational Culture Training Programs (9465)
Session/Chair		1030	1100	1130
304 AB	The Future is Now Ann Friel	Presentations will be made by students who participate in the Future Leaders Pavilion who are enrolled in engineering, computer sciences, mathematics, or modeling and simulation tracks.		
304 CD	ED-8 Learning Technology in Practice Amy Jenison	Reducing E-Learning Development Costs Using a Streamlined XML-based Approach (9463) 📄	Web-based Training Design and Development Lessons Learned (9353)	Advanced Blended Learning: Creating a Learning Organization (9253)
304 EF	EC-11 Performance Assessment Tools Luis Garcia	New Generation of Instrumented Ranges: Enabling Automated Performance Analysis (9234) 📄 ✍️	An Instrumentation and Computational Framework of Automated Behavior Analysis and Performance Evaluation for Infantry Training (9468)	Improving Military Readiness: A State-of-the-Art Cognitive Tool to Predict Performance and Optimize Training Effectiveness (9024) 📄 ✍️
304 GH	T-10 Perception vs Performance Karen Pogoloff	Assessing Perceived Truth Versus Ground Truth in After Action Review (9274)	Is Cockpit Fidelity Important for Effective Training? Perception versus Performance (9304)	Design & Development of a Standard Space Trainer (SST) (9129)
307 AB	S-8 East, West and In-between Clem Greek	Disaggregation for Realistic 3D Visualisation (9044) →	CGF for NATO NEC C2 Maturity Model (N2C2M2) Evaluation (9181) →	Simulation Support to Operations – Bringing Simulation to the Fight (9021) →
307 CD	P-5 Buy Smart Jesse Citizen	The Procurement of a Training Simulator: Implications for Policymakers (9012) →	Modeling and Simulation Synergies in Acquisition, Test and Evaluation, and Training (9072) 📄	Simulation Based Performance Assessment - Methodology and Case Study (9013) →

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



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THURSDAY, 3 DECEMBER 2009

Session/Chair		1330	1400	1430
304 AB	S-9 Far Flung Networks Fred Fleury	Combating Network Load in High Entity Count Federations (9051)	Interfacing a Communications Effect Model to Provide Accurate Modeling of Communications in Computer Generated Forces (9221)	Statistical Traffic Simulation for Live, Virtual, and Constructive Experimentation (9242)
304 CD	ED-9 So You Think You Can Lead? Susan Ellison	Teams of Leaders: Raising the Level of Collaborative Leader-Team Performance (9089)  	Improving Company Commander's Visualization in Irregular Warfare (9213) 	Leader Challenge™: A Platform for Training and Developing Leaders (9277)
304 EF	EC-13 Modeling For All Your Needs Eric Jarabak	Development of Advanced Models for CIMIC for Supporting Operational Planners (9182) →	Emotional Intelligence as an Indication of a Student's Success (9300) →	
304 GH	T-11 Rounds Downrange Jim Lester	Joint Service Partnership: Extending the Live Training Transformation Product Line (9083)	Training Range Modernization: New Technology on Old Infrastructure (9336)	
307 AB	S-10 Improving Fidelity Steve Husak	An Experiment In Flight Training Through Enhanced Virtual World Training Concepts (9003)	Development of a Reconfigurable Operator Console Framework for Experimentation (9090) →	Realistic Material Damage Simulation Using Real-time Finite Element Analysis (9409)
307 CD	H-6 "Super-Grunt" Improving Combat Performance for the Dismounted Infantry Soldier Tammy Clark	Sensor-Based Assessment of Basic Rifle Marksmanship (9135) 	Teaching and Assessing Complex Skills in Simulation with Application to Rifle Marksmanship Training (9086) 	Virtual Training Systems and Survival Humanistic Factors (9116)
202 A	EC-12 Über - Cues Randy Crowe	Tactical Digital Holograms in Support of Mission Planning and Training (9238)	Karplus-Strong Synthesis for Non-linear Aural Pulse Trains (9048) 	Panoramic Augmented Reality for Persistent Information in Counterinsurgency Environments (9293) 
203 A	P-6 Something That Works Gerald Dreggors	Developing Medical Policy, Standards, and Management Using Systems Dynamics and JCIDS (9269)  	Don't Throw Out the Baby with the Bathwater (9190)	Towards a Concept of Operations for Distributed Training Simulation in the Canadian Air Force (9415) →

THURSDAY EVENING *Reception and Awards Banquet*
AT THE PEABODY ORLANDO HOTEL


Transportation: Buses will run to and from all I/ITSEC hotels and the Peabody Hotel from 1730-2300.




Sound of Freedom


Sound of Freedom is Navy Band Southeast's newest performing group. It is a high-energy, patriotic entertainment ensemble with a mix of traditional patriotic and classic Americana.

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 Nominated for Best Paper/Tutorial Award


 Honorable Mention for Best Paper Award

→ International Author

 Continuing Education Units (see pg. 13)

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ED-1 • TUESDAY, 1 DECEMBER • 1400 • 304 CD

Did I Do That?**Session Chair:** Mary Trier, Capital Communication & Consulting**Session Deputy:** Alex Hoover, USJFCOM
Cheral Wintling, NETC**Mission Readiness Skills Verification for Today's Military (9208)**Brent Jordan, Wendy Darnell, C² Technologies, Inc.; Tracy Hancock, Office of the Air Force, Surgeon General**The After Action Review Through the Eyes of Practitioners at the National Training Center (9103)**

Phillip Jones, Jeffrey Wilkinson, Thomas Mastaglio, MYMIC, LLC; James P. Bliss, Samuel A. Minnis, Old Dominion University

Evaluation and Outcomes of a Novel AAR Scoring Methodology (9068)

Taryn Cuper, Phillip Jones, David Drucker, MYMIC, LLC; Dr. John Morey, Dynamics Research Corporation

ED-2 • TUESDAY, 1 DECEMBER • 1600 • 304 CD

Back to the Future**Session Chair:** Chuck Secard, Lockheed Martin**Session Deputy:** Dr. Holly Baxter, Strategic Knowledge Solutions
Richard St. Amour, USMC PEO Land Systems**The FCS Cognitive Landscape: Identifying and Training FCS Cognitive Requirements (9233)**

Jennifer K. Phillips, William A. Ross, Cognitive Performance Group; Dr. Jeff Grover, Dynamics Research Corporation; Tristan Hendrix, Intelligent Decision Systems, Inc.; Dr. Brian T. Crabb, U.S. Army Research Institute

5th Generation Aircraft Tactical Training Resources (9153)

Douglas Smith, David de Moulpied, Corsair Engineering; Rick Boggs, Lockheed Martin Simulation, Training and Support

Competency-Based Design of F-16 Qualification Training (9046)

Jelke van der Pal, Edzard Boland, National Aerospace Laboratory NLR and Maj Michel de Rivecourt, RNLAf, Center for Man in Aviation

ED-3 • WEDNESDAY, 2 DECEMBER • 0830 • 304 CD

Taking Games Seriously**Session Chair:** Dr. Tom Mastaglio, MYMIC LLC**Session Deputy:** Jennifer McNamara, BreakAway, Ltd.; Bob Deforest, AFAMS**A Framework for Promoting High Cognitive Performance in Instructional Games (9054)**

Michael Anthony, Dr. Terry Chandler, Erin Heiser, SRA International, Inc.

Positively Gaming the System: A VBS2™ Training Case Study (9165)

Major Eric Atherton, U.S. Army; Dr. Holly C. Baxter, Strategic Knowledge Solutions, Inc.

A Conceptual Framework for Assessing Performance in Games and Simulations (9281)

Alan D. Koenig, John Lee, Markus Iseli, Richard Wainess, University of California Los Angeles

ED-4 • WEDNESDAY, 2 DECEMBER • 1030 • 304 CD

The World at War: Applying Today's Warfare Lessons**Session Chair:** Bill Walsh, Specpro, Inc.**Session Deputy:** JoAnn Wesley, MARCORSSYSCOM PM TRASYs; Rebecca Palmore, USCG Training Center Yorktown**Development and Validation of Training Themes for Joint, Interagency, Intergovernmental and Multinational (JIIM) Operations (9194)**

Karol G. Ross, Meagan C. Arrastia, Cognitive Performance Group; Anna Grome, Klein Associates Division, ARA; Jim Ong, Stottler Henke, Inc.; Brooke B. Schaab, U.S. Army Research Institute; David Spangler, Global Innovation and Design, Inc.

Applying Current Wars' Lessons to Training and Education (9039)

Dr. William M. Knarr, Jr., MajGen Thomas Jones, USMC (Ret.), Institute for Defense Analyses

Cross-Cultural Competence in the U.S. Air Force: Roles, Challenges and Skills in the Contemporary Operating Environment (9193)

Karol G. Ross, William A. Ross, Meagan C. Arrastia, Cognitive Performance Group; Daniel P. McDonald, Defense Equal Opportunity Management Institute

ED-5 • WEDNESDAY, 2 DECEMBER • 1400 • 304 AB

Real Men Ask Directions**Session Chair:** Carlton Hardy, HQ TRADOC**Session Deputy:** John Jinkerson, CAE USA
Suzy Sutton, AETC**Assessment of Educational Visual Storytelling at the Smithsonian (9445)**

Robert Costello, Smithsonian's National Museum of Natural History; Daniel Bliton, Booz Allen Hamilton

Ensuring Mobile Devices Deliver Mobile Support: Are We There Yet? (9101)

Dr. John W. Ruffner, Nina Deibler, Serco, Inc.

Intelligent Reading Tutor for Improving Reading Comprehension and Content Learning (9436)

Dr. Jacqueline Haynes, Daniel Fowler, Shannon Mayhew, Intelligent Automation, Inc.

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🎮 Gaming-related Subject Matter

ED-6 • WEDNESDAY, 2 DECEMBER • 1600 • 304 CD

Best from Around the Globe: A Collection of Best Papers from SimTecT and ITEC**Session Chair:** Dr. John Huddleston, Cranfield University**Session Deputy:** Carlton Hardy, HQ TRADOC*Network Effects in Epidemiology (SimTecT 2008 Best Paper)* →

Dr. Anthony Dekker, Defense Science and Technology Organisation (DSTO)


This Strange Dominant Logic - Decoding Behaviour Under Stress (SimTecT 2009 Best Paper) →

Dr. Elysabeth Leigh, FutureSearch

Cross-Cultural Interpersonal Communication (ITEC 2009 Excellence Award) →

Dr. Ed Sims, Vcom3D

ED-7 • THURSDAY, 3 DECEMBER • 0830 • 304 CD

Festivus – ISD for the Rest of Us**Session Chair:** Ed Coyl, Defense Training Systems**Session Deputy:** Rebecca Palmore, USCG Training Center Yorktown; LTC Scott Crino, USMA*Collective Training Needs Analysis - A New Analytical Framework (9485)*  →

Dr. John Huddleston, Jonathan Pike, Cranfield University

Modeling and Instructional Simulation Design (9179)

James A. Hadley, Capella University

Outcomes-Based Training and Education: Formative Assessment (9131)

S. Artis, F. Diedrich, K. Durkee, Z. Horn, T. Jefferson, Aptima, Inc.; R. Semmens, Imprimis, Inc.

ED-8 • THURSDAY, 3 DECEMBER • 1030 • 304 CD

Learning Technology in Practice**Session Chair:** Amy Jenison, AETC**Session Deputies:** Miguel Encarnacao, Humana Inc. Innovation Center; Dan Young, SCCI Integrated Logistics Solutions*Reducing E-Learning Development Costs Using a Streamlined XML-based Approach (9463)* 

Bill Bandrowski, Emily Copp, Concurrent Technologies Corporation; David Castillo, Buena Vista Learning LLC



Web-based Training Design and Development Lessons Learned (9353)

Dr. David Twitchell, Department of Veterans Affairs, VHA/EES; Dr. Bill Bandrowski, Claire Favro, M.A., Concurrent Technologies Corporation


Advanced Blended Learning: Creating a Learning Organization (9253)

Linda McGurn, Dynamics Research Corporation; Dr. Mike Prevou, Strategic Knowledge Solutions

ED-9 • THURSDAY, 3 DECEMBER • 1330 • 304 CD

So You Think You Can Lead?**Session Chair:** Susan Ellison, USAF TSPG**Session Deputy:** Sharon Wolford, Carley Corporation*Teams of Leaders: Raising the Level of Collaborative Leader-Team Performance (9089)*  

Michael Prevou, Robert H. Veitch, Richard F. Sullivan, Strategic Knowledge Solutions, Inc.

Improving Company Commander's Visualization in Irregular Warfare (9213) 



Carl W. Lickteig, Heather N. Stroupe, U.S. Army Research Institute; Anna T. Cianciolo, Command Performance Research, Inc.; Mike Silverman, Independent Consultant; Dr. Ellen S. Menaker, IDSI

Leader Challenge™: A Platform for Training and Developing Leaders (9277)



Chris Miller, Nate Self, The Praevius Group; Dr. Sena Garven, U.S. Army Research Institute

Publish Only*Rapid Training Development Tools for Operational Units (9247)*

Scott Shadrack, U.S. Army Research Institute; Amanda Palla, VERTEX Solutions; Anna T. Cianciolo, Command Performance, Inc.

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EC-1 • TUESDAY, 1 DECEMBER • 1400 • 304 AB

It's Just Like Being There**Session Chair:** Matt Spruill, Science Applications International Corporation**Session Deputy:** Bart Scherschel, CAE USA*Go With the Flow: Engagement and Learning in Second Life (9346)* 📌

Karen Cooper, NAWCTSD

2010: The Perfect Storm for Web 3D Simulators and Games (9077) 📌

Cary Harr, Booz Allen Hamilton

Machinima Technology: Serious Games Lite (9288) 📌

Curtis Conkey, NAWCTSD

EC-2 • TUESDAY, 1 DECEMBER • 1400 • 304 EF

Detection, Visualization & Virtualization -**Tomorrow's Technology Today****Session Chair:** Patrick Imlay, USAF TSPG**Session Deputy:** Scott Kensinger, USAF TSPG; Eric Jarabak, MARCORSYSCOM PM TRASYS*Persistent Dismount Detection Using Distributed Sensors (9002)*

Michael L. Picciolo, J. Scott Goldstein, Science Applications International Corporation

Exploiting FPGA Technology for Visual Systems (9095) 📌

H. Dee Gardiner, Russell J. Urry, Rockwell Collins

Leveraging SAN and Server Virtualization in Simulation Training Environments (9201)

David Rasmussen, Ken Falana, Northrop Grumman Information Systems; Kevin Sowers, TEK Systems

EC-3 • TUESDAY, 1 DECEMBER • 1600 • 304 EF

It's Storytime!**Session Chair:** Dr. Beth Biddle, The Boeing Company**Session Deputy:** Dr. Tiffany Jastrzembski, AFRL
Dr. Elaine Raybourn, Sandia National Labs*Just in Time Lessons Learned: Timely Retrieval of Operational Vignettes (9174)* 📌

Laurie Waisel, Wes Regian, Chad Davis, Kamal Gella, Concurrent Technologies Corporation

Contemporary Operating Environment (COE) in Military Planning for Training Exercises (9408)

Douglas E. Wahrenberger, Ben Murphy, CAE USA Professional Services

Behavioral Threads: Coordinated Synthetic Team Behavior for Small Group Training (9426)

Dr. Webb Stacy, John Colonna-Romano, Mark Weston, Aptima, Inc.; Tim Roberts, SFC Paul Ray Smith Simulation & Training Technology Center (STTC)

EC-4 • WEDNESDAY, 2 DECEMBER • 0830 • 304 EF

Cultural Competence Central: Mission Success Begins Here**Session Chair:** Martin Bushika, MARCORSYSCOM PM TRASYS**Session Deputy:** Dr. Elaine Raybourn, Sandia National Labs*Cultural Training: The Web's Newest Gaming Frontier (9092)* 📌

Joseph Camacho, USJFCOM JKDDC JMO; Dr. W. Lewis Johnson, Dr. Andre Valente, Alelo, Inc.; Martin Bushika, MARCORSYSCOM PM TRASYS

Culture on the Front Line: Dimensions that Matter (9443) 📌

Marissa L. Shuffler, Maritza Salazar, Wendy L. Bedwell, Eduardo Salas, & C. Shawn Burke, Institute for Simulation and Training, University of Central Florida

Developing a Social Complexity Framework for Immersive Task Training (9460)

Paul Cummings, Dr. Arnold Leonard Michael Golson, Vance Souders, ICF International

EC-5 • WEDNESDAY, 2 DECEMBER • 1030 • 304 EF

We're Not Just Playing Around**Session Chair:** Dr. Kristy Murray, Joint ADL Co-Lab**Session Deputy:** Bob Seltzer, NAWCTSD*Exploring the Use of a Massive Multiplayer Game (MMPG) to Train Infantry Company Commanders (9007)* 📌

Dr. Scott A. Beal, U.S. Army Research Institute

Applying High-Cognitive vs. High Physical Fidelity within Serious Games (9055) 📌

Dr. Terry Chandler, Michael Anthony, Dave Klinger, SRA International, Inc.

Beyond Game Effectiveness Part I: an Empirical Study of Multi-role Experiential Learning (9482) 📌

Dr. Elaine M. Raybourn, Sandia National Laboratories

EC-6 • WEDNESDAY, 2 DECEMBER • 1330 • 304 CD

Say It Again, Sam**Session Chair:** Kevin Cahill, Aero Simulation**Session Deputies:** LT Melissa Denihan, USN, NAVAIR PMA205
Aimee Norwood, Booz Allen Hamilton*Scenario-Based Conversational Intelligent Tutoring Systems for Decision-Making Skills (9119)*

Eric A. Domeshek, Stottler Henke Associates, Inc.

FLOPS per Watt: Heterogeneous-Computing's Approach to DoD Imperatives (9484)

Dan M. Davis, Robert F. Lucas, Gene Wagenbreth, John J. Tran & Joel Agaloff, Information Sciences Institute/Univ. of So. California; Thomas D. Gottschalk, Center for Advanced Computing Research, California Institute of Technology

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📌 Nominated for Best Paper/Tutorial Award

📌 Honorable Mention for Best Paper Award

➔ International Author

📌 Continuing Education Units (see pg. 13)

📌 Medical-related Subject Matter

📌 Standards-related Subject Matter

📌 Gaming-related Subject Matter

EC-7 • WEDNESDAY, 2 DECEMBER • 1400 • 304 EF

Lean Training: Thin to Win**Session Chair:** Matt Kraus, Applied Research Associates**Session Deputies:** Dr. Kristy Murray, Joint ADL Co-Lab
Bob Seltzer, NAWCTSD*An Adaptive Learning Architecture for Next Generation Simulation Training Systems (9320)*

Jeff Sestokas, Christopher Burns, Applied Research Associates, Inc.; Thomas Forbes Worth II, Harvard University


Serious by Design: An Inclusive Model for Understanding Learning Games (9478) 

Dr. Michael W. Freeman, Camber Corporation

Bite-Sized Gaming: Using Mini-Games for Full Sized Learning (9470) 

Peter A. Smith, Joint ADL Co-Lab; Alicia Sanchez, Defense Acquisition University


EC-8 • WEDNESDAY, 2 DECEMBER • 1600 • 304 EF

Data Effects on Rendering**Session Chair:** Nephi Lewis, Rockwell Collins Simulation and Training Solutions**Session Deputy:** Matt Kraus, Applied Research Associates*Automated Reconstruction of Synthesized Environments from Complex Point Cloud Datasets (9169)* 

Keith Biggers, Dr. John Keyser, Dr. Jim Wall, Texas A&M University


Realistic Reflections for Marine Environments in Augmented Reality Training Systems (9210) 

LT Jason Nelson, Naval Postgraduate School; Dr. Mathias Kölsch, Naval Postgraduate School


Multiple-Domain Correlation Without Highly Structured Standardization of Data (9348) 

Aaron Hutchinson, Cogent3D, Inc.; Nephi Lewis, Rockwell Collins

EC-9 • WEDNESDAY, 2 DECEMBER • 1600 • 307 AB

Training & Assessment Infrastructure**Session Chair:** Dr. George Stone, Alion Science and Technology**Session Deputy:** Sandy Veautour, U.S. Army PEO STRI*Automated Performance Assessment and Adaptive Training for Training Simulators with SimSCORM (9202)* 

Leo de Penning M.Sc., Dr. Bart Kappé, Dr. Eddy Boot, TNO Defense, Safety and Security

Multinational Federated ADL Search and Retrieval – II: Sharing Across NATO (9403) 

James Xu, Advanced Distributed Learning Initiative; Geir Isaksen, Norwegian Defence ADL Centre National; Bill Railer, Canadian Defence Academy; Giridhar Manepalli, Corporation for National Research Initiatives


Next-Generation Live Virtual Constructive Architecture Framework (LVCAF) (9015)

Warren Bizub, Joint Forces Command J7; Jeffrey Wallace, Carpe Occasio Technology Systems; Dr. Andy Ceranowicz, Alion Science and Technology; Dr. Edward Powell, Science Applications International Corporation

EC-10 • THURSDAY, 3 DECEMBER • 0830 • 304 EF

Human Terrain Meets Social Networks**Session Chair:** Richard Boyd, 3Dsolve Inc.**Session Deputies:** Martin Bushika, MARCORSSYSCOM PM TRASY
Bart Scherschel, CAE USA*Training Effect Based Reasoning; Developing a Next Generation of Training Simulators (9031)*

Erik Borgers, Manfred Kwint, Peter Petiet, Mink Spaans, TNO Defence and Security



Modeling Human Modifier Diffusion in Social Networks (9139) 

Agostino Bruzzone, MISS-DIPTEM University of Genoa; Andrea Reverberi, Marina Simona Fumagalli, DICHEP University of Genoa; Roberto Ambra, Experimental Flight Center; Roberto Cianci, DIPTM University of Genoa; Enrico Bocca, Simulation Team

Generating Human Terrain for Agent-Based Models (9370)

William D. Wheaton, Matthew J. Westlake, James I. Rineer, Geoffrey A. Frank, RTI International







EC-11 • THURSDAY, 3 DECEMBER • 1030 • 304 EF



Performance Assessment Tools**Session Chair:** Luis Garcia, MARCORSSYSCOM PM TRASY**Session Deputy:** Laura Milham, Design Interactive*New Generation of Instrumented Ranges: Enabling Automated Performance Analysis (9234)*  

Dr. Amela Sadagic (1), Dr. Greg Welch (2), Dr. Chumki Basu (3), Dr. Chris Darken (1), Dr. Rakesh Kumar (3), Dr. Henry Fuchs (2), Dr. Hui Cheng (3), Dr. Jan-Michael Frahm (2), Dr. Mathias Kölsch (1), Dr. Neil Rowe (1), Herman Towles (2), Dr. Juan Wachs (1), Dr. Anselmo Lastra (2); (1) Naval Postgraduate School, (2) University of North Carolina at Chapel Hill, (3) Sarnoff Corporation

An Instrumentation and Computational Framework of Automated Behavior Analysis and Performance Evaluation for Infantry Training (9468)

Hui Cheng, Rakesh Kumar, Chumki Basu, Feng Han, Saad Khan, Harpreet Sawhney, Chris Broadus, Chris Meng, Azhar Sufi and Thomas Germano, Sarnoff Corporation; Dr. Mathias Kölsch, Juan Wachs, Naval Postgraduate School

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Improving Military Readiness: A State-of-the-Art Cognitive Tool to Predict Performance and Optimize Training Effectiveness (9024)  

Tiffany S. Jastrzembski, Kevin A. Gluck, AFRL; Stuart Rodgers, AGS TechNet

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Über - Cues

Session Chair: Dr. Randy Crowe, Lockheed Martin


Session Deputy: Sandy Veautour, U.S. Army PEO STRI

Tactical Digital Holograms in Support of Mission Planning and Training (9238)

H. Michelle Kalphat, SFC Paul Ray Smith Simulation & Training Technology Center (STTC); John J. Martin, AFRL 711HPW/RHAE

High Fidelity Vehicle Sound Simulation (9048) 

Nat Napoletano, Lockheed Martin, STS

Panoramic Augmented Reality for Persistent Information in Counterinsurgency Environments (9293) 


Major Brett Lindberg, Captain Justin Jones, Dr. Mathias Kölsch, MOVES Institute, Naval Postgraduate School

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
Modeling For All Your Needs

Session Chair: Eric Jarabak, MARCOSYSCOM PM TRASYS

Session Deputy: Aimee Norwood, Booz Allen Hamilton

Development of Advanced Models for CIMIC for Supporting Operational Planners (9182) 

Agostino Bruzzone, MISS-DIPTM University of Genoa; Claudia Frydman, LSIS-University of Marseille; Giovanni Cantice, CESIVA Italian Army; Marina Massei, DIPTM University of Genoa; Simonluca Poggi, Liophant Simulation; Michele Turi, U.S. Army TRADOC

Emotional Intelligence as an Indication of a Student's Success (9300) 

Geetu Bharwaney, Ei World; Sqn Lr Adrian Rycroft, Royal Air Force

Publish Only

Using Augmented Reality to Develop a Robotics Safety System (9032)

Paul Huang, Chris Holmes, Omar Khan, Steve French, Ed Alexander, BAE Systems, USCS

Evaluation of Reference Marker Geometries for LiDAR Pose Estimation (9290)

Richard B. Morrison, Dr. Mathias Kölsch, Naval Postgraduate School

Data Analysis for Massively Distributed Simulations (9350)

Ke-Thia Yao, Robert F. Lucas, Craig E. Ward, Gene Wagenbreth, USC Information Sciences Institute; Thomas D. Gottschalk, California Institute of Technology


Using Service Flagship Simulations for Joint Training (9413)


Michael Egnor, LTC John Janiszewski, USJFCOM; Anita Adams Zabek, The MITRE Corporation; Michael Willoughby, JTIEC

Modeling Believable Virtual Humans for Interpersonal Communication (9442)


Dr. Edward M. Sims, Vcom3D, Inc.; Glenn Taylor, Soar Technology

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 Honorable Mention for Best Paper Award

 International Author

 Continuing Education Units (see pg. 13)

 Medical-related Subject Matter

 Standards-related Subject Matter

 Gaming-related Subject Matter


H-1 • TUESDAY, 1 DECEMBER • 1400 • 307 CD

Assessing Combat Decisions**Session Chair:** Oscar Garcia, AFRL**Session Deputy:** Dr. Susan Coleman, Intelligent Decisions Systems, Inc.**Communications Assessment at an Air Force Exercise: Specific Results, Larger Implications (9444)**

William J. Salter, Andrew Duchon, and Shawn Weil, Aptima, Inc.

Decision Making with Digital Systems (9197)  

Gregory Goodwin, U.S. Army Research Institute

Assessing Performance in a Simulated Combat Information Center (9333) 

John J. Lee, William L. Bewley, Barbara Jones, Hoky Min, and Taehoon Kang, UCLA/CRESST

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Heads Up - Watch the Interface!**Session Chair:** Catherine Emerick, Booz Allen Hamilton**Session Deputy:** Maj Neil Fitzpatrick, USMC MAGTFCTC**Improving the Utility of a Binocular HMD in a Faceted Flight Simulator (9178)**  

Michael P. Browne, SA Photonics; Kirk Moffitt, Human Factors Consultant; Marc Winterbottom, AFRL



Measurement and Mitigation of Latency in Next Generation Helmet Mounted Displays (9117) 

Dr. Dennis A. Vincenzi, Naval Air Warfare Center Training Systems Division; Dr. Elizabeth L. Blickensderfer, Embry-Riddle Aeronautical University; Dr. John Deaton, Florida Institute of Technology; Rick Pray, RPA Electronic Solutions, Inc.




Design of a Common UAS Operator Interface: An Exploratory Analysis (9250)

Thomas J. Alicia, Richard Plumlee, Melissa M. Walwanis Nelson, Beth F. W. Atkinson, Naval Air Warfare Center Training Systems Division; Hugh Carroll, Basic Commerce and Industry, Inc.; Andrew Mendolia, Embry-Riddle Aeronautical University



H-3 • WEDNESDAY, 2 DECEMBER • 1030 • 307 CD

Calling Dr. I/ITSEC**Session Chair:** Shannon Wigent, Science Applications International Corporation**Session Deputy:** Dr. Janet Weisenford, ICF International**Building Team Briefing Cycles in Healthcare: A Full-Spectrum Approach (9394)**  

Michael A. Rosen, Eduardo Salas, Institute for Simulation and Training, University of Central Florida; Shad Deering, Andersen Simulation Center


Critical Care Air Transport Teams (CCATT): Improving Performance through Simulation (9151)   

Sharon Walsh-Hart, ICF International; Gina R. Dorlac, Warren Dorlac, U.S. Air Force

Patient Safety in the OR: Improving Team Coordination and Communication (9257)  

Anna Grome, Beth Crandall, Jeff Brown, Applied Research Associates; Sue Sanford-Ring, Steve Douglas, University of Wisconsin

H-4 • WEDNESDAY, 2 DECEMBER • 1400 • 307 CD

Whole > Σ Parts**Session Chair:** Gordon Gattie, NSWC Dahlgren Div**Session Deputy:** Dr. Jim Pharmed, NAWCTSD**Competencies: Making Them “Work” for the Navy’s Total Force (9076)** 


Monica Huff, Cheryl Lilleboe, U.S. Navy Total Force Integration Branch

Analyzing Community of Practice Metrics to Enhance Organizational Effectiveness (9172)


John J. Nelson, Dynamics Research Corporation

Small Unit Performance in DHS (9145)Darren P. Wilson, CHFEP, Dr. Janae Lockett-Reynolds, Department of Homeland Security; Dr. Thomas Malone, CHFEP, Carlow International Inc.; Elizabeth L. Wilson, CHFEP, Caden James Enterprises
(CHFEP: Certified Human Factors Engineering Personnel)



H-5 • WEDNESDAY, 2 DECEMBER • 1600 • 307 CD

Group or Groping: So Close Yet So Far Away**Session Chair:** Bob Wallace, USAF 29 TSS**Session Deputy:** Jim Godwin, The Tolliver Group, Inc.**Assessing the Needs of the Warfighter in Distributed Collective Training Simulations (9371)** 





Dr. Helen Dudfield, James Kearse, QinetiQ

Issues in Deployment of Serious Games (9064) 


Paula J. Durlach, U.S. Army Research Institute

Field Evaluation of Advanced Features for an Aircraft Interactive Electronic Technical Manual (9196)  


Janina Crocker, StandardAero; Captain Bruce Olive, Canadian Forces

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H-6 • THURSDAY, 3 DECEMBER • 1330 • 307 CD

“Super-Grunt” Improving Combat Performance for the Dismounted Infantry Soldier**Session Chair:** Tammy Clark, Cubic Applications, Inc.**Session Deputy:** Capt Brandy Thomas, USMC, MCWL
Dr. Stuart Grant, Defense Research and Development Canada**Sensor-Based Assessment of Basic Rifle Marksmanship (9135)** 

Sam O. Nagashima, Gregory K. W. K. Chung, Paul D. Espinosa, CRESST/UCLA; Chris Berka, Advanced Brain Monitoring, Inc.

Teaching and Assessing Complex Skills in Simulation with Application to Rifle Marksmanship Training (9086) 

Anthony Ciavarelli, Naval Postgraduate School; William L. Platte, Johnny J. Powers, U.S. Army

Virtual Training Systems and Survival Humanistic Factors (9116)

Randall L. Murphy, MSM, Director of Research; Darrell L. Ross, Ph.D., Western Illinois University



Publish Only**Does Mariner Experience Effect Distance Judgments of Visual Targets in Virtual Marine Environments? (9294)**

Scott N. MacKinnon, Kerri-Ann Evely, Memorial University of Newfoundland; David Antle, McGill University

P-1 • TUESDAY, 1 DECEMBER • 1600 • 307 CD

Standards: Common Threads**Session Chair:** Annie Patenaude, Booz Allen Hamilton**Session Deputy:** Mike Motko, QinetQ NA
Brad Valdyke, MARCORSSYSCOM PM
TRASYS**Developing a Process for M&S Standards Management within DoD (9397)**  

Dr. Amy E. Henninger, Ralph D. Gibson, DoD M&S Coordination Office; Dr. Margaret L. Loper, GTRI; Dr. Katherine L. Morse, JHU/APL


Benefits to the Simulation Training Community of a New ANSI Standard for the Exchange of Aero Simulation Models (9019)  

Bruce Hildreth, Science Applications International Corporation; E. Bruce Jackson, NASA Langley Research Center


A Technical Development Strategy for Bridging S1000D™ and SCORM® (9136) 

Wayne Gafford, Advanced Distributed Learning Co-Lab

P-2 • WEDNESDAY, 2 DECEMBER • 0830 • 307 CD

Distributed Simulation Without Borders**Session Chair:** Bob Kleinhample, Science Applications International Corporation**Session Deputies:** Ron Munden, Camber Corp
Dave Milewski, Lockheed Martin**Effective Use of Simulation Means in Collective Mission Simulation (9198)** 





Jeroen Voogd, Manfred Roza, TNO Defence, Security and Safety; Arjan Lemmers, Arno Gerretsen, National Aerospace Laboratory NLR; Rombout Karelse, Simulation Expertise Centre, Netherlands MoD

Managing Distributed Training Events – Lessons Learned from the Mission Training through Distributed Simulation Capability Concept Demonstrator (9365) 

Dr Helen Dudfield, James Kearse, QinetiQ

Improved Distributed I&T Efficiency Through Automated Testing (9327)

Michael Aldinger, Brad Bridges, Northrop Grumman Corporation

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P-3 • WEDNESDAY, 2 DECEMBER • 1030 • 304 AB

Rest Assured**Session Chair:** Jim Runk, HQ AMC**Session Deputies:** Bob Dixon, U.S. Army PEO STRI
Jan Brown, CAE USA***Implementing Information Assurance – Beyond Process (9367)*** 📖 📄

Misty Piatek, Booz Allen Hamilton; James Newkirk, U.S. Army PEO STRI

Cross Domain Solution (CDS) Certification and Accreditation for Persistent, Simulation Training (9142) 📖 📄 ✍️

Bonnie Page Danner, CISSP, Northrop Grumman Corporation

Fielding Simulation and Training Systems Legally Without Accreditation (9140) 📖 📄

Craig D. Thornley, James R. Newkirk, U.S. Army PEO STRI, Cyber Security Office

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Exploring New Domains**Session Chair:** Stacy Pierce, Rockwell Collins**Session Deputy:** René Thomas-Rizzo, NAVSEA***Effective Acquisition of Virtual Worlds; Ensuring Return on Investment (9081)*** 📖 🔔

Jay F. Graser, SRA International, Inc.

The Legal Fork In The OTD Roadmap – What Lies Ahead? (9390) 📖

Dr. Bela Joshi, Jesse D. Watters, Esq., Alion Science and Technology Corporation

Relevance of Doctrinal Feedback Loops to Operational Culture Training Programs (9465)

Jennifer Rachels

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Buy Smart**Session Chair:** Jesse Citizen, OSD/AT&L (DDR&E)**Session Deputies:** Leslie Mauger, The ASTA Group, Inc.
Jay White, USCG Training Center***The Procurement of a Training Simulator: Implications for Policymakers (9012)*** →

Maarten van Veen, Tim Grant, Netherlands Defence Academy

Modeling and Simulation Synergies in Acquisition, Test and Evaluation, and Training (9072) 📖

Major Rafael Vila, USAF, Joint Interoperability Test Command

Simulation Based Performance Assessment - Methodology and Case Study (9013) →Dr. Klaas Jan de Kraker, Wouter Noordkamp, Hilvert Fitski,
Dr. Ana Barros, TNO Defence, Security and Safety

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Something That Works**Session Chair:** Gerald Dreggors, Northrop Grumman**Session Deputy:** Charlie Huffine, Craig Technologies***Developing Medical Policy, Standards, and Management Using Systems Dynamics and JCIDS (9269)*** 📖 📄

John Vinacco, Gerardo Tuero, Robert Hinger, Rob Syvertson, Steven A. White III, Booz Allen Hamilton; CAPT Dianne Novak, USJFCOM Surgeon's Office

Don't Throw Out the Baby with the Bathwater (9190)

Robert C. Kleinhample, Science Applications International Corporation

Towards a Concept of Operations for Distributed Training Simulation in the Canadian Air Force (9415) →

Dr. Stuart Grant, Defence Research and Development Canada; Major Eric Johnsrude, Canadian Forces Aerospace Warfare Center

Publish Only***A Model for Successful Interagency Collaboration (9352)***

Dr. David Twitchell, Department of Veterans Affairs; Rebecca Bodrero, Concurrent Technologies Corporation

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📄 Continuing Education Units (see pg. 13)

📖 Medical-related Subject Matter

📄 Standards-related Subject Matter

🔔 Gaming-related Subject Matter

S-1 • TUESDAY, 1 DECEMBER • 1400 • 307 AB

Improving Simulation Interoperability

Session Chair: Robert Lutz, Johns Hopkins APL

Session Deputy: Laura Massie, JFCOM

In Search of Greater Homogeneity in the Simulation Community (9152)

Paul E. Hanover, CMSP, Science Application International Corporation

Cross Domain Solution Challenges Transitioning From Concept to Operations (9133)

Kelly Djahandari, Joan Archer, Bonnie Danner, Northrop Grumman Corporation

Toward Interoperability between Test and Training Enabling Architecture (TENA) and Distributed Interactive Simulation (DIS) Training Architectures (9473)

Craig Marsden, Michael Aldinger Benjamin Leppard, Northrop Grumman Corporation

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Controlling a Crowded World

Session Chair: Michael Powell, USJFCOM JSIC

Session Deputy: Ba Duong, MARCORSSYSCOM PM TRASYS

Non-Lethal Effects and Crowd Behavior M&S Test Bed (9207)

Tina Gaumont, Raytheon Company; Yiannis E. Papelis, Virginia Modeling, Analysis, and Simulation Center, Old Dominion University; Lisa Jean Bair, WernerAnderson, Inc.

Calibrating and Validating Large Scale Agent-Based Simulations of Populations (9128)

Douglas Roberts, Philip C. Cooley, Diane Wagener, Geoffrey Frank, RTI International

Enabling Psychological Operations in Simulation (9066)

Joe R. Gonzalez Jr., Texas A&M University Engineering Program

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Winning The Fight At Home: Simulation Support to DHS

Session Chair: Buck Leahy, Buck Leahy Consulting

Session Deputy: Sam Kukich, USCG Performance Technology Center

Results of a Simulation of Response to a Bioterrorism Crisis (9456)

Dr. James E. Coolahan, Michael T. Kane, Dr. Katherine L. Morse, John F. Schloman, Johns Hopkins University Applied Physics Laboratory; Dr. Roy P. Koomullil, Dr. Alan M. Shih, University of Alabama at Birmingham; Dr. Evangelos I. Kaisar, Florida Atlantic University; Dr. Kenneth K. Walsh, Florida A&M University

Enabling Homeland Security with Modeling & Simulation (M&S) (9412)

Charles W. Hutchings, U. S. Department of Homeland Security

Overview of MSA Needs for Homeland Security (9505)

Charles R. McLean, Sanjay Jain, and Y. Tina Lee, National Institute of Standards and Technology

S-4 • WEDNESDAY, 2 DECEMBER • 1030 • 307AB

Seeing Better

Session Chair: Dr. Bill Gerber, W.J. Gerber Consulting

Session Deputy: Heath Morton, USAF TSPG

Automating Extraction of 3D Detail from GIS Data Using Semantic Web Technology (9171)

Pedro Maroun Eid, Dr. Sudhir Mudur, Concordia University

Evaluation of Game-Based Visualization Tools for Military Flight Simulation (9240)

Logan A Williams, 1Lt Matthew Lisa, Craig Eidman, Capt Clinton Kam, 1Lt Adam Pohl, AFRL

PhysX Extended: An Integrated Real-Time Physics and Terrain Solution (9391)

Danny Browning, James Adkison, Applied Research Associates, Steven Borkman, Dignitas Technologies; Julio De La Cruz, SFC Paul Ray Smith Simulation & Training Technology Center (STTC)

S-5 • WEDNESDAY, 2 DECEMBER • 1400 • 307 AB

Improving Operations

Session Chair: Larry Rieger, HQ TRADOC

Session Deputy: John Aughey, The Boeing Company

Object Model Composability and Multi-Architecture LVC Interoperability (9014)

Jeffrey Wallace, Carpe Occasio Technology Systems; Warren Bizub, U.S. JFCOM; Dr. Andy Ceranowicz, Alion Science and Technology; Dannie Cutts, AEGIS Technologies Group Inc.; Dr. Edward T. Powell, Science Applications International Corporation; Paul Gustavson, SimVentions, Inc.; Robert Lutz, Johns Hopkins University Applied Physics Laboratory; Richard Rheinsmith, Novonics Corporation, Andy Bowers, MITRE, Terrell McCloud, Lockheed Martin Simulation, Training and Support


Use of Modeling and Simulation in Time-Critical Planning/Replanning (9023)


Dr. David R. Pratt, Dr. Robert W. Franceschini, Science Applications International Corporation


Aerial Refueling in a DMO Environment (9366)


Ronald Kornreich, NGB/A5I; William Dunn, Matthew Richards, QuantaDyn Corporation


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 International Author




 Continuing Education Units (see pg. 13)

 Medical-related Subject Matter


 Standards-related Subject Matter

 Gaming-related Subject Matter

S-6 • WEDNESDAY, 2 DECEMBER • 1600 • 304 AB

Medical & Beyond**Session Chair:** Traci Jones, U.S. Army PEO STRI**Session Deputy:** Emily Burns Anton, Inf Visualization & Innovative Res Inc.**Task Specific Simulations for Medical Training: Fidelity Requirements Compared with Levels of Care (9121)**   

M. Beth H. Pettitt, Mr. Jack Norfleet, U.S. Army SFC Paul Ray Smith Simulation & Training Technology Center (STTC); C. Ray Descheneaux, OD, FAAO

Severe Trauma Stress Inoculation Training for Military Medics using Simulated Static and Dynamic Battlefield Injuries (9132) 

Dr. Teresita M. Sotomayor, SFC Paul Ray Smith Simulation & Training Technology Center (STTC); Angela M. Salva, The Virtual Reality Medical Center

Use of Modeling and Simulation in Software TRL Evaluations (9156)

Gene Shreve, Science Applications International Corporation; Jeff Maddox, AMRDEC; Monte Porter, CSC

S-7 • THURSDAY, 3 DECEMBER • 0830 • 307 AB

Improving Training**Session Chair:** Tom Stanzione, VT MÄK**Session Deputy:** Amanda Cinnamon, Booz Allen Hamilton**Collective Training - Collective Thinking: Using Innovative Adaptive Simulation in Exercises (9111)** →

Martijn Stamm, Eelco Kuipers, TNO Defence; Wils Hein, Royal NLD Army Air Defence Command

Mobile, Hand-Held Support Devices for the Dismounted Future Warrior (9225)

Timothy Roberts, SFC Paul Ray Smith Simulation & Training Technology Center (STTC); Dr. Jessie Y.C. Chen, U.S. Army Research Laboratory

Enabling Distributed Mission Training (9401) →

Sanjay Khetia, QinetiQ

S-8 • THURSDAY, 3 DECEMBER • 1030 • 307 AB

East, West and In-between**Session Chair:** Clem Greek, General Dynamics Information Technology**Session Deputy:** Dr. Denise Threlfall, L-3/Training Systems Group**Disaggregation for Realistic 3D Visualisation (9044)** →

Khoo Meng Kwong, Toh Qin Yu, Low Kok Seng, Loh Chee Keong, Defence Science & Technology Agency; LTC Ong Ban Sing, Singapore Armed Forces

CGF for NATO NEC C2 Maturity Model (N2C2M2) Evaluation (9181) →

Agostino Bruzzone, MISS-DIPTEM, University of Genoa; Agatino Mursia, Selex Communications Spa; Marco Sebastiani, Giovanni Cantice, CESIVA, Italian Army; Giacomo Morabito, DIIT, University of Catania; Alberto Tremori, MAST Srl

Simulation Support to Operations – Bringing Simulation to the Fight (9021) →

Dr. Paul A. Roman, Royal Military College of Canada; Colonel John (Buck) Surdu, Ph.D., U.S. Army RDECOM

S-9 • THURSDAY, 3 DECEMBER • 1330 • 304 AB

Far Flung Networks**Session Chair:** Fred Fleury, Zedsoft, Inc.**Session Deputy:** John Shaw, NAWCTSD**Combating Network Load in High Entity Count Federations (9051)**

Jennifer Lewis, Diana Vagiakos, Science Applications International Corporation

Interfacing a Communications Effect Model to Provide Accurate Modeling of Communications in Computer Generated Forces (9221)

Alan Dickens, Bob Holcomb, VT MÄK; Lloyd Wihl, Scalable Network Technologies; Richard Aplin, Boeing Defence Australia

Statistical Traffic Simulation for Live, Virtual, and Constructive Experimentation (9242)

Damon Priest, Jason Dirner, NetCentric Technology, Inc.

S-10 • THURSDAY, 3 DECEMBER • 1330 • 307 AB

Improving Fidelity**Session Chair:** Steve Husak, Steve Husak & Associates**Session Deputy:** Ed Schiffers, Northrop Grumman**An Experiment In Flight Training Through Enhanced Virtual World Training Concepts (9003)**

Christopher H. Meyer, Michael J. Mitchell, Hasan Schwandes, Eddie N. Rodriguez, Lin Shen, Brandon S. Smith, Kristin Alfero, Cory Weathers, Lockheed Martin

Development of a Reconfigurable Operator Console Framework for Experimentation (9090) →




Andrew P. McMahon, Boeing Defence UK Limited; Shane D. Arnott, The Boeing Company

Realistic Material Damage Simulation Using Real-time Finite Element Analysis (9409)

Steven L. Griffith, Objective Interface Systems, Inc.

Publish Only**The Application of COTS Physics Engines to CGF Vehicle Dynamics (9324)**

Jon M. Williams, Eytan Pollak, Steven R. Schwalm, L3 Communications

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/Tutorial Award Honorable Mention for Best Paper Award International Author Continuing Education Units (see pg. 13) Medical-related Subject Matter Standards-related Subject Matter Gaming-related Subject Matter

T-1 • TUESDAY, 1 DECEMBER • 1400 • 304 GH

Because I Said So**Session Chair:** Scott Ariotti, DiSTI**Session Deputy:** Sam Worrell, FAAC, Inc.*Lessons Learned – Training Technologies in Canadian Hornet Maintenance Training (9322)* →

Gordon Coulman, Lt(N) Bradley White, Department of National Defence (Canada)

Ten Challenges for the Future of Computer Based Training (9342) 📖 ✍️

William Ferguson, Alice Leung, Bruce Roberts, David Diller, BBN Technologies

Distributed Synthetic Air-Land Training - Demonstration to Delivery (9363)

Jon Saltmarsh, David Beattie, QinetiQ

T-2 • TUESDAY, 1 DECEMBER • 1600 • 304 GH

Blending In: Training Culture**Session Chair:** Bob Johnson, NAVSEA Philadelphia**Session Deputy:** Meredith Brehm, Lockheed Martin*Cultural Awareness Training Standards for Serious Games (9030)* 📖 🔔

Keith J. Johnston, TRADOC Intelligence Support Activity

Serious Games for Second Language Retention (9164) 🔔

Jeremy Ludwig, Dan Fu, Stottler Henke Associates, Inc.;

Kathleen Bardovi-Harlig, David Stringer, Indiana University

The First Person Cultural Trainer (9243) 📖 🔔

Dr. Marjorie A. Zielke, Dr. Thomas E. Linehan, The University of Texas at Dallas

T-3 • WEDNESDAY, 2 DECEMBER • 0830 • 304 AB

Looking Back To Move Ahead**Session Chair:** Mark Soodeen, CAE Canada**Session Deputy:** Mitch Bonnett, Future Force Division*After Action Review Tools for Team Training with Chat Communications (9256)* 🗣️ 📖

Dr. Sowmya Ramachandran, Randy Jensen, Oscar Bascara, Dr. Tamitha Carpenter, Stottler Henke Associates, Inc.; Todd Denning, AFRL/HEA; Lt Shaun Succillon, AFRL

Enhanced Mission Record and Review System for Distributed Mission Operations (9341) 📖

Johan Pirot, IP Video Systems, Inc.; Louis G. (Gino) Hodges, Plexsys

Capture of Qualitative Exercise Data with Integrated After Action Analysis (9184) →

Craig A. Pepper, Boeing Defence Australia

T-4 • WEDNESDAY, 2 DECEMBER • 0830 • 304 GH

Simulated Meds**Session Chair:** Vince Eddards, USAF TSPG**Session Deputy:** Larry Skapin, The Boeing Company*Team Training for Medical Military Teams: Using Simulation to Improve Teamwork (9314)* 🗣️

Sallie J. Weaver, Deborah DiazGranados, Michael A. Rosen, Rebecca Lyons, Eduardo Salas, Rebecca Leis, Michael Stephens, UCF IST; Jeffrey S. Augenstein, William Lehman, Paul Rothenberg, Injury Research Center & University of Miami Miller School of Medicine; Donald W. Robinson Army Trauma Training Center and Ryder Trauma Center; Heidi King, OASD for Health Affairs

Training Healthcare Providers to Confront Diversity in Clinical Settings (9331) 📖 🗣️

Thomas Santarelli, Dr. Russell Maulitz, Dr. Wayne Zachary, Joanne Barnieu, CHI Systems, Inc.; Dr. Bonnie O'Connor, Consultant

Military Observation: Perceptual Skills Training Strategies (9287)

Meredith Carroll, Dr. Laura Milham, Roberto Champney, Design Interactive, Inc.

T-5 • WEDNESDAY, 2 DECEMBER • 1030 • 304 GH

Got a Complex Skill? We Can Train It!**Session Chair:** Dr. Lisa Holt, Lumir Research Institute**Session Deputy:** Anne Sullivan, MARCORSSCOM PM TRASYS*Generalizability of the Deliberate Practice Technique for Training Higher-Order Skills (9038)* 📖 ✍️

Dr. Jeffrey M. Beaubien, Dr. Amy L. Alexander, Dr. Sharnnia Artis, Dr. Kara L. Orvis, Yale Marc, M. Arch, Aptima, Inc.

Teamwork Training for Tactical Operations Center Battle Staffs (9148)

Michael Tremlett, John C. Morey, Belinda A. Hartnett, Dynamics Research Corporation

Cognitive Air Defense Training System: A Situational Awareness Toolset for Air Defense Instruction (9420)

Curtis Bennett, Jill Brady, Glyn Anderson, Game Production Services

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✍️ Honorable Mention for Best Paper Award

→ International Author


📖 Continuing Education Units (see pg. 13)

🗣️ Medical-related Subject Matter

📖 Standards-related Subject Matter

🔔 Gaming-related Subject Matter

T-6 • WEDNESDAY, 2 DECEMBER • 1400 • 304 GH

Game Up: Call to Duty and Beyond**Session Chair:** Jim Threlfall, C2 Technologies, Inc.**Session Deputy:** Warren Jones, HQ TRADOC**Combat Development & Fielding of Gaming Technologies to Enhance Army Training (9447)** 

LTC Mark Tanner, USA, Mike Enloe, U.S. Army National Simulation Center



Using Simulation to Train Influence (9466)

Angela Karrasch, Heather Hilgenkamp, Center for Army Leadership; LTC Mike Landers, LTC Josh Potter, U.S. Army 1st Infantry Division; Clark Aldrich, SimuLearn

QuickStrike ASOC Battlefield Simulation: Preparing the Warfighter to Win (9144)

Master Sergeant Gregory Kassa, Washington Air National Guard; Richard L. Jones, LtCol, USAF (ret), VT MÅK

T-7 • WEDNESDAY, 2 DECEMBER • 1600 • 304 GH

Top of Our Game**Session Chair:** Paul Eckert, SMC SCNG/ST**Session Deputy:** Dr. Amy Bolton, ONR**Investigating the Effectiveness of Game-Based Approaches to Training (9260)**  

Kathryn Engel, Krista L. Langkamer, Jamie L. Estock, Kara L. Orvis, Aptima, Inc.; Eduardo Salas, Wendy L. Bedwell, University of Central Florida; Curtis Conkey, NAWCTSD

Designing and Developing Effective Training Games for the U.S. Navy (9477)  

Talib S. Hussain, Bruce Roberts, BBN Technologies; Clint Bowers, Janis A. Cannon-Bowers, University of Central Florida; Ellen Menaker, Susan Coleman, Intelligent Decision Systems, Inc.; Curtiss Murphy, Alion Science and Technology; Kelly Pounds, IDEAS; Alan Koenig, Richard Wainess, John Lee, National Center for Research on Evaluation, Standards, and Student Testing, UCLA

Learning Anti-Submarine Warfare with a Game-Like Tactical Planner (9275) 

Allen Munro, Quentin Pizzini, University of Southern California; William Bewley, UCLA

T-8 • THURSDAY, 3 DECEMBER • 0830 • 304 AB

Finding the Balance: Live vs Simulated Training**Session Chair:** Maureen Bergondy-Wilhelm, NAWCTSD**Session Deputy:** Richard Grohs, HQ ACC/A8AT**Balancing Simulated and Live Naval Fleet Training (9016)**

Margaux Daly, Dianne Thorpe, CAN

Defining the Training Mix – Sorties, Sims, and Distributed Mission Operations (9166)

Charles M. Colegrove, Alion Science and Technology; Leah J. Rowe, L-3 Communications; George Alliger, The Group for Organizational Effectiveness, Inc.; Michael Garrity, Aptima, Inc.; Dr. Winston Bennett, Jr., 711th Human Performance Wing


Applying Low-Cost Simulation to Training of Construction Equipment Operators (9270)

J. Brian Fisher, Robert K. Huffman, Southwest Research Institute; Armando J. Sanchez, U.S. Army PEO STRI; Jonathan Goodney, John Deere Training Center


T-9 • THURSDAY, 3 DECEMBER • 0830 • 304 GH

One Team One Fight**Session Chair:** COL Nicholas Navetta, USA, USSOCOM**Session Deputy:** Dr. Sae Schatz, UCF IST**Simulation to Assess an Unmanned System's Effect on Team Performance (9105)**

Eric Ortiz, Daniel Barber, UCF IST; MAJ Jonathan Stevens, Dr. Neal Finkelstein, SFC Paul Ray Smith Simulation & Training Technology Center (STTC)

Collective Training & Thinking in JAMD: The Italian JPOWX Experience (9216) 

Lesley Jacobs, Ornella Schavemaker-Piva, Yntze Meijer, TNO Defence Security, and Safety; Paolo Nuvoloni, Costantino Cioli, Roberto Manca, Giulio Argiolas, Italian Air Force

Supporting Collective Training & Thinking in Joint Project Optic Windmill (9222) 

Lesley Jacobs, Rob van de Wiel, TNO Defence, Security and Safety; Jeroen Bosch, Rob Olthoff, Royal Netherlands Air Force

T-10 • THURSDAY, 3 DECEMBER • 1030 • 304 GH

Perception vs Performance**Session Chair:** Karen Pogoloff, Planning and Learning Technologies, Inc.**Session Deputy:** Dr. Kathy Quinkert, VCSA S&T**Assessing Perceived Truth Versus Ground Truth in After Action Review (9274)**






Randy Jensen, Stottler Henke Associates, Inc.

Is Cockpit Fidelity Important for Effective Training? Perception versus Performance (9304)

Jamie L. Estock, Dr. Emily M. Stelzer, Dr. Amy L. Alexander, Dr. Kathryn Engel, Aptima, Inc.

Design & Development of a Standard Space Trainer (SST) (9129)

Laura R. Dietz, David S. Coleman, Dr. Winston Bennett, Jr., Dr. Robert T. Nullmeyer, Michael E. Newman, Merrill C. Galligan, AFRL

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T-11 • THURSDAY, 3 DECEMBER • 1330 • 304 GH

Rounds Downrange

Session Chair: Maj James Lester, USMC, TECOM CCE

Session Deputy: Stephen Gersuk, Quantum 3D, Inc.

Joint Service Partnership: Extending the Live Training Transformation Product Line (9083)

Jeremy Lanman, MITRE; Bob Becker, Jacobs Engineering;
Will Samper, U.S. Army PEO STRI

Training Range Modernization: New Technology on Old Infrastructure (9336)

Joe Smith, Riptide Software Inc.; James Todd, Randi Kahl,
U.S. Army PEO STRI

Publish Only

A Tailored Solution to a Not-So-Unique Challenge (9040)

Richard Marley, C2 Technologies, Inc.


Development of a Performance Assessment System for Combat Medic/Lifesaver Training (9137)


Roger M. Hamilton, National Research Council Research Associateship Program; Jessie Y.C. Chen, U.S. Army Research Laboratory; Jack E. Norfleet, USFC Paul Ray Smith Simulation & Training Technology Center (STTC)


Electronic Tactics, Techniques and Procedure Guides (e-TTPGs) Provide Non-Lethal Weapons Training – Anytime, Anywhere (9377)


Donna Parker, HQ Air Force Security Forces Center

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 International Author

 Continuing Education Units (see pg. 13)

 Medical-related Subject Matter

 Standards-related Subject Matter

 Gaming-related Subject Matter