

# MODSIM WORLD 2022 AGENDA

MONDAY, 9 MAY		
1000 – 1700	<b>REGISTRATION OPEN</b> MAIN SALON FOYER	
1300 – 1315	<b>MODSIM WORLD 2022 WELCOME &amp; OPENING REMARKS</b> MAIN SALONS DE	
	<b>Welcome &amp; Opening Remarks</b> <b>Nick Drucker</b> Huntington Ingalls Industries, 2022 Conference Chair	<b>Introduction of Congressional Keynote Speaker</b> <b>RADM James A. Robb, USN (Ret.)</b> President, NTSA
1315 – 1330	<b>CONGRESSIONAL KEYNOTE ADDRESS</b> MAIN SALONS DE <b>Congressman Bobby Scott</b> VA-03	
1330 – 1400	<b>INDUSTRY KEYNOTE ADDRESS</b> MAIN SALONS DE	
1400 – 1530	<b>SPECIAL EVENT: INDUSTRY KEYNOTE PANEL</b> MAIN SALONS DE <b>Nick Drucker</b> Huntington Ingalls Industries, 2022 Conference Chair Moderator <b>Rese Cleaver</b> Director of Product Management, DroneUp <b>Mary Claire McLaughlin</b> Digital Capabilities Lab Manager, Newport News Shipbuilding (NNS)	
1500 – 1730	<b>EXHIBITS OPEN</b> MAIN SALON FOYER	
1530 – 1600	<b>NETWORKING BREAK &amp; DEDICATED EXHIBIT TIME</b> MAIN SALON FOYER	
1600 – 1730	<b>SPECIAL EVENT: “THE SIMULATION CENTURY” – LIFE, THE METAVERSE AND EVERYTHING</b> MAIN SALONS DE This is our tenth annual session to address the growing issue of managing the human/machine interface as we hurtle towards the Singularity and the Metaverse. We will continue our discussion of how to achieve fluency with smarter balance between humans and machines to optimize outcomes. The Simulation Century Panel presentations this year will focus on technologies that build towards the Metaverse.	

	<b>Richard Boyd</b> <i>"AI Digital Twins and the Metaverse"</i> CEO, Tanjo, Inc. Moderator	<b>Dennis Belliveau</b> <i>"In the Footsteps of Marco Polo using XR"</i> Explorer in Residence, <i>In The Footsteps of Marco Polo</i>
	<b>Anil Menon</b> <i>"Digital Twins to Manage Community Wellness"</i> Executive Vice President, Community & Urban Services, Sharecare, Inc.	<b>Marc Prensky</b> <i>"Empowerment"</i> Renowned author and creator of the term "Digital natives"
<b>TUESDAY, 10 MAY</b>		
0700 – 1700	<b>REGISTRATION OPEN</b> MAIN SALON FOYER	
0745 – 0845	<b>CONTINENTAL BREAKFAST</b> MAIN SALON FOYER	
0845 – 0900	<b>DAY TWO WELCOME &amp; OPENING REMARKS</b> MAIN SALONS DE	
	<b>Opening Remarks</b> <b>Nick Drucker</b> Huntington Ingalls Industries, 2022 Conference Chair	<b>Introduction of Government Keynote Speaker</b> <b>RADM James A. Robb, USN (Ret.)</b> President, NTSA
0900 – 1000	<b>CONGRESSIONAL KEYNOTE ADDRESS</b> MAIN SALONS DE <b>Michael Cannizzaro</b> Chief, Technology Development Division, Synthetic Training Environment CFT	
0930 – 1800	<b>EXHIBITS OPEN</b> MAIN SALON FOYER	
1000 – 1030	<b>NETWORKING BREAK &amp; DEDICATED EXHIBIT TIME</b> MAIN SALON FOYER	
1030 – 1200	<b>PAPER SESSION I</b>	
	<b>Industry Track: Data Authenticity &amp; Training Support</b> MAIN SALON A	
		<b>Provisioning Zero Trust Security to Physical and Cloud Endpoints Through an Uncontrolled Wide Area Network</b> <b>Joseph Warren</b> Thales Cloud Protection and Licensing
		<b>Fake Data—Real Operations</b> <b>Matt Martin</b> CAE USA
		<b>The Value of Cyber Physical Digital Twins</b> <b>Steven Huang</b>

		<p>ManTech International</p> <p><b>Doug Orellana</b></p>
		<p><b>Development and Testing of a Virtual Reality Aviation Illusion Trainer</b></p> <p><b>Robert Thomas</b> Embry-Riddle Aeronautical University</p> <p><b>Nicholas Nieves</b> Embry-Riddle Aeronautical University</p> <p><b>Thomas Barcza</b> Embry-Riddle Aeronautical University</p>
	<p><b>Security Track: Training with Synthetic Agents and AI</b></p> <p>MAIN SALON B</p>	
		<p><b>Red Rover, Red Rover, Send an F-35 Right Over: Assessing Synthetic Agent Trust in Human Teammates to Optimize Mission Outcomes in Mosaic Warfare</b></p> <p><b>Sandro Scielzo</b> CAE USA</p> <p><b>Brian Hall</b> CAE USA</p>
		<p><b>Real-Time Situation Awareness Assessment for Pilots via Machine Learning: Constructing an Automated Classification System</b></p> <p><b>Sandro Scielzo</b> CAE USA</p> <p><b>Eric Larson</b> Southern Methodist University</p> <p><b>Nicholas Crothers</b> Southern Methodist University</p> <p><b>Yash Sinha</b> Southern Methodist University</p>
		<p><b>Innovative Automated Analysis Tools for After Action Review Using AI and Modeling &amp; Simulation</b></p> <p><b>Ariane Bitoun</b> MASA Group</p> <p><b>Hans ten Bergen</b> MASA Group</p>
		<p><b>A Neuro-Symbolic Approach to Conversational AI within Simulation</b></p> <p><b>Samuel Griffith</b> Discovery Machine, Inc.</p> <p><b>Todd Griffith</b> Discovery Machine, Inc.</p> <p><b>Brady Kirkpatrick</b> <b>Hudson Pepper</b> <b>Isaiah Mallery</b></p>

	<b>Community Track: Educational Approaches Utilizing M&amp;S</b> MAIN SALON C	
		<b>Analog vs. Digital: Amplifying Feedback for Learning</b> Nicholas Armendariz University of Central Florida  J.J. Walcutt, Ph.D. Clay Strategic Designs
		<b>Boosting Cognitive Capabilities through Enhanced States during Gaming</b> Maria Kozhevnikov Harvard Medical School
		<b>Augmented and Mixed Reality-based Modules for Scientific Instrumentation Training</b> Michael Kozhevnikov Norfolk State University
		<b>Transitioning M&amp;S Courses from a M&amp;S Engineering Degree to a Major Under a Computer Engineering Degree</b> James Leathrum Old Dominion University  Yuzhong Shen Old Dominion University  Masha Sosonkina Michel Audette
1200 – 1300	<b>LUNCH &amp; DEDICATED EXHIBIT TIME</b> MAIN SALONS FGH	
1300 – 1430	<b>SPECIAL EVENT: MILITARY KEYNOTE PANEL</b> MAIN SALONS DE	
1430 – 1500	<b>NETWORKING BREAK &amp; DEDICATED EXHIBIT TIME</b> MAIN SALON FOYER	
1500 – 1630	<b>PAPER SESSION II</b>	
	<b>Industry Track: Happenings in Medical Modeling &amp; Simulation</b> MAIN SALON A	
		<b>Invited Panel</b> Claire Hughes Frank Karluk Phil LeDuc Bob Armstrong
1630 – 1800	<b>ATTENDEE ONSITE NETWORKING EVENT</b> MAIN SALON FOYER	
	<b>Welcome Remarks</b> Nick Drucker	<b>Networking Reception Sponsor</b>

	Huntington Ingalls Industries, 2022 Conference Chair	
<b>WEDNESDAY, 11 MAY</b>		
0700 – 1400	<b>REGISTRATION OPEN</b> MAIN SALON FOYER	
0745 – 0845	<b>CONTINENTAL BREAKFAST</b> MAIN SALON FOYER	
0845 – 0900	<b>DAY THREE WELCOME &amp; OPENING REMARKS</b> MAIN SALONS DE	
	<b>Opening Remarks</b> Nick Drucker Huntington Ingalls Industries, 2022 Conference Chair	
0900 – 1000	<b>SPECIAL EVENT: AR/VR PANEL – TECHNOLOGIES CONTRIBUTING TO THE METAVERSE</b> This panel will quickly define the metaverse, what it means for the government, and then dive into the technology advancements which are making it possible today. The panel will explore areas such as real-time 3D, scaling, geospatial, Rendering, UI/UX, and how they come together to make a credible metaverse available for the government to realize significant value.	
	<b>Bob Kleinhample</b> Vice President of Immersive Technologies, SAIC Moderator	<b>John Burwell</b> Global Lead, Simulation and Training, Varjo
	<b>John Cunningham</b> Director, Unity Government & Aerospace	<b>Gastao De Figueiredo</b> SVP Strategic Partnerships, Blackshark.ai
	<b>Caitlin Dohrman</b> General Manager, Improbable U.S. Defense and National Security	<b>Tim Woodard</b> Senior Solutions Architect, NVIDIA
0930 – 1500	<b>EXHIBITS OPEN</b> MAIN SALON FOYER	
1000 – 1030	<b>NETWORKING BREAK &amp; DEDICATED EXHIBIT TIME</b> MAIN SALON FOYER	
1030 – 1200	<b>PAPER SESSION III</b>	
	<b>Industry Track: Industry Focused M&amp;S</b> MAIN SALON A	
		<b>Data Science Team Topology: An Interdisciplinary Team Framework for AI</b> Ralitsa Maduro, Ph.D. Sentara Healthcare  Jay Gendron USAA

		<b>Advancing Electrical Grid Operator Training Through eXtended Reality (XR) Technology</b> <b>Charis Horner</b> Design Interactive, Inc.  <b>Stacey Sanchez</b> Design Interactive, Inc.  <b>Diana Perera</b> Design Interactive, Inc.
		<b>Optimal Electric Grid Black Start Restoration Subject to Threats</b> <b>Kevin Stamber</b> Sandia National Laboratories  <b>Bryan Arguello</b> <b>Richard Garrett</b> <b>Walt Beyeler</b> <b>Casey Doyle</b>
		<b>Adaptive Camera Motion Generation for Procedural Guidance and Understanding in Virtual Environments</b> <b>Shan Liu</b> Old Dominion University  <b>Yuzhong Shen</b> Old Dominion University
	<b>Security Track: Training Afforded Through Gaming</b> MAIN SALON B	
		<b>The Future of Navy and Army Training (RRL Compared to STE)</b> <b>George Stone</b> Aptima, Inc.  <b>Evan Oster</b> Aptima, Inc.
		<b>Developing and Applying an Accelerated Learning Framework for Game-Based Training</b> <b>Julian Abich III, Ph.D.</b> Quantum Improvements Consulting  <b>Eric Sikorski</b>
		<b>Cyber Red Zone: Capture-the-Flag the DoD Way!</b> <b>Tashara Cooper</b> NAWCTSD  <b>Jonathan Harris</b> NAWCTSD
		<b>Virtual Training</b> <b>Mansoor Alrazaogi</b> Dubai Police
	<b>Community Track: M&amp;S in Healthcare</b>	

	MAIN SALON C	
		<b>Artificial Societies Enabling Multidisciplinary Policy Evaluation: A Health Policy Example</b> Andreas Tolk The MITRE Corporation  Bianica Pires Jon Cline
		<b>Development of Research Topics in Healthcare Simulation</b> Brian Goldiez Virginia Modeling, Analysis, & Simulation Center at ODU
		<b>Introduction of the Joint Emergency Trauma Simulation (JETS) System</b> David Litteral IVIR, Inc.  Erin Honold
		<b>Implementation of Live-Virtual-Constructive (LVC) Workplace Setting to Enhance Occupational Success among Young Adults with ADHD</b> Rachel Lim University at Buffalo, State University of New York  Kevin Hulme University at Buffalo, State University of New York  Gregory Fabiano Sandro Sodano Channele Gordon
1030 – 1200	<b>STEM EVENT</b> MAIN SALON FOYER	
1200 – 1300	<b>LUNCH &amp; DEDICATED EXHIBIT TIME</b> MAIN SALONS FGH	
1300 – 1430	<b>PAPER SESSION IV</b>	
	<b>Industry Track</b> MAIN SALON A	
	<b>Security Track: Digitally Connected Training Worlds</b> MAIN SALON B	
		<b>Simulation Assessment Technologies</b> Dave Boldt Marine Learning Systems  Murray Goldberg Arvinder Aujla
		<b>Online Synchronous Matrix Wargaming as a Multi-Domain Government and Military Decision Support Training Capability</b> Wayne Stilwell

		<p>Stilwell Technology and Robotics, LLC</p> <p><b>Stephen Nelson</b> NATO ACT (U.S. Army)</p>
		<p><b>Simulating Changing Environments with Socio-Technical Modeling: An Air Combat Example</b></p> <p><b>Benjamin Bell</b> Eduworks Corporation</p> <p><b>Wink Bennett</b> <b>Kristin Wood</b> <b>Fritz Ray</b></p>
		<p><b>Warfighter Digital Twin</b></p> <p><b>Zhiqing Cheng</b> Innovision, LLC</p> <p><b>Gary Zientara</b> <b>Reed Hoyt</b></p>
	<p><b>Community Track: Rethinking Cognitive Models</b> MAIN SALON C</p>	
		<p><b>Inculcating Metacognition and Critical Thinking: Pedagogical Infrastructures Employing Virtual Humans</b></p> <p><b>Dan Davis</b> HPC-Education; Catholic Polytechnic University</p> <p><b>Jennifer Nolan</b> Catholic Polytechnic University</p> <p><b>John Tran</b> Catholic Polytechnic University</p>
		<p><b>Comparison of Collective Day and Night Shooting Performance</b></p> <p><b>Gregory Goodwin</b> U.S. Army</p> <p><b>Grace Teo</b> Quantum Improvements Consulting</p> <p><b>Jacquelyn Schreck</b> Quantum Improvements Consulting</p>
		<p><b>Applying Learning Experience Design to Real-time Simulator-Based Adaptive Training</b></p> <p><b>Trish Mulligan-Renaud</b> TTD Learning Solutions</p> <p><b>Tim Cooley</b> DynamX Consulting</p> <p><b>Ivar Oswald</b> The MIL Corporation</p>
		<p><b>Breaking Down Educational Silos: Using Gamification in Education to Engage in Critical Thinking and Integrated Skills in a Comprehensive Approach to Problem Solving</b></p> <p><b>Jeffery Marshall</b></p>



		Green House
1430 – 1445	<b>NETWORKING BREAK &amp; DEDICATED EXHIBIT TIME</b> MAIN SALON FOYER	
1445 – 1615	<b>MSVE CAPSTONE PRESENTATIONS &amp; CLOSING REMARKS</b> MAIN SALONS DE	