



ANNUAL RESEARCH REVIEW

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November 16, 2022

National Press Club, Washington DC | Hybrid

This event unites a national network of defense practitioners and researchers across government, industry, and academia to discuss issues of national and global significance and share updates and progress on research addressing the most challenging issues facing the Department of Defense. Registration is open to the public.

2022

8:00 AM	Check-in & Networking		
8:45 AM	Welcome & Opening Remarks <i>Dr. Dinesh Verma, Executive Director, SERC & AIRC; Stevens Institute of Technology</i> <i>Mr. Thomas Simms, Principal Deputy Director (Acting), Office of Systems Engineering and Architecture, Office of the Under Secretary of Defense for Research and Engineering (OUSD(R&E))</i>		
9:00 AM	Keynote <i>Dr. Charles Clancy, Senior Vice President, General Manager, MITRE Labs, Chief Futurist</i>		
10:00 AM	Break & Networking		
	Track 1 (Ballroom)	Track 2 (First Amendment)	Track 3 (Holeman Lounge)
10:15 AM	 WRT-1045: Digital Engineering Implications on Decision Making Process <i>Dr. Andres Sousa-Poza</i> <i>Old Dominion University</i>	 ART-015: New Observing Strategies Testbed (NOS-T) Design and Development <i>Dr. Matthew LeVine</i> <i>Stevens Institute of Technology</i>	 WRT-1042 & WRT-1068: Policy Innovations to Enhance the STEM Talent Pipeline <i>Dr. William Rouse</i> <i>Georgetown University</i> <i>Dr. Dan DeLaurentis</i> <i>Purdue University</i> <i>Dr. John Lombardi</i> <i>University of Massachusetts Amherst</i> Sponsor <i>Mr. Louie R. Lopez</i> <i>Director, DoD STEM, Basic Research Office, OUSD(R&E)</i>
10:55 AM	 ART-002 & ART-022: Transforming Systems Engineering through Model Based Systems Engineering <i>Dr. Mark Blackburn</i> <i>Stevens Institute of Technology</i>	 WRT-1041: Space and Missiles Center (SMC) Production Corps - Mission Engineering and Integration of Emerging Technologies <i>Dr. Michael Orosz</i> <i>University of Southern California</i>	 WRT-1055: Policy Options to Promote DoD-Defense Industry Collaboration in STEM Education and Workforce Development Programs, Activities, and Outreach <i>Dr. Ruth David</i> <i>Dr. Payuna Uday</i> <i>Stevens Institute of Technology</i> Sponsor <i>Mr. Louie R. Lopez</i> <i>Director, DoD STEM, Basic Research Office, OUSD(R&E)</i>
11:35 AM	 WRT-1054: Digital Engineering Migration of Evolved Strategic SATCOM (ESS) Systems Engineering and Technical Management Processes <i>Dr. Mark Blackburn</i> <i>Stevens Institute of Technology</i>	 ART-016: Integrated Mission Equipment (IME) Architecture Process for Vertical Lift Systems <i>Dr. Bryan Mesmer</i> <i>The University of Alabama in Huntsville</i>	 WRT-1064: SE Capstone Marketplace 2022-2023 CAPT (Ret.) William Shepherd <i>Stevens Institute of Technology</i>
12:15 PM	Lunch (HBCU Roundtable 12:30 PM - 2:30 PM by Invitation Only)		
1:15 PM	Keynote <i>Ms. Kristen Baldwin, Deputy Assistant Secretary of the Air Force, Science, Technology and Engineering</i>		

	Track 1 (Ballroom)	Track 2 (First Amendment)	Track 3 (Holeman Lounge)
2:15 PM	 <p>WRT-1052: Digital Engineering Transformation at JPEO-CBRND <i>Dr. Cesare Guariniello</i> Purdue University</p>	 <p>WRT-1040: Application of Digital Engineering Measures <i>Mr. Tom McDermott</i> Stevens Institute of Technology Sponsor <i>Ms. Nadine Geier</i> Director, Systems Engineering, OUSD (R&E)</p>	 <p>WRT-1046: 2D Materials for Spintronics and Quantum Sensing <i>Dr. Eui-Hyeok Yang</i> Stevens Institute of Technology</p>
2:55 PM	  <p>WRT-1006: Developing the Digital Engineering Competency Framework (DECF) <i>Dr. Nicole Hutchison</i> <i>Dr. Hoong Yan See Tao</i> Stevens Institute of Technology</p>	 <p>ART-017: Learning-Enhanced Autonomous Navigation for GPS-Denied Vehicles <i>Dr. Brendan Englot</i> Stevens Institute of Technology</p>	 <p>WRT-1022: Developmental Test and Evaluation (DT&E) and Cyberattack Resilient Systems <i>Dr. Peter Beling</i> Virginia Tech Sponsor <i>Ms. Sarah Standard</i> Cybersecurity and Interoperability Executive Director for Developmental Test, Evaluation, and Assessments, OUSD(R&E)</p>
3:35 PM	Break & Networking		
3:50 PM	  <p>WRT-1043: Defense Acquisition University (DAU) Digital Engineering Simulation <i>Dr. Nicole Hutchison</i> Stevens Institute of Technology Sponsor <i>Mr. David Pearson</i> Director, Engineering and Technology Center, DAU</p>		 <p>WRT-1072: Measurable Requirements for Operational Resilience <i>Dr. Peter Beling</i> Virginia Tech Sponsor <i>Ms. Sarah Standard</i> Cybersecurity and Interoperability Executive Director for Developmental Test, Evaluation, and Assessments, OUSD(R&E)</p>
4:30 PM	  <p>WRT-1051 & WRT-1058: Systems Engineering Modernization Policy, Practice, and Workforce Roadmaps <i>Mr. Tom McDermott</i> Stevens Institute of Technology Sponsor <i>Ms. Nadine Geier</i> Director, Systems Engineering, OUSD (R&E) Sponsor <i>Dr. Kelly Alexander</i> Chief Engineer, Systems Engineering Modernization, OUSD(R&E)</p>		 <p>ART-019: FLETC (Federal Law Enforcement Training Center) Training Systems Curriculum Study <i>Dr. Barry Ezell</i> Old Dominion University</p>
5:10 PM - 7:30 PM	Closing Remarks & Reception (First Amendment) <i>Dr. Dinesh Verma</i> , Executive Director, SERC & AIRC; Stevens Institute of Technology <i>Dr. Dan DeLaurentis</i> , Chief Scientist, SERC; Purdue University		



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