

SERC RESEARCH REVIEW 2023

November 15, 2023



Time	Track 1 (Digital)	Track 2 (AI & Security)	Track 3 (HCD)
8:45 AM	Welcome & Opening Remarks: Celebrating 15 Years of SERC		
9:30 AM	Morning Keynote <i>HON. Andrew P. Hunter, Assistant Secretary of the Air Force for Acquisition, Technology and Logistics</i>		
10:30 AM	Networking Break		
11:00 AM	Transforming Systems Engineering to Model-Based Systems Engineering <i>Dr. Mark Blackburn</i> <i>Stevens Institute of Technology</i>	Digital Engineering for Test and Evaluation <i>Dr. Laura Freeman</i> <i>Virginia Tech</i>	Defense Acquisition University Digital Engineering Simulation <i>Dr. Nicole Hutchison</i> <i>Stevens Institute of Technology</i>
11:45 AM	A Decade of Digital Engineering Research <i>Dr. Mark Blackburn</i> <i>Stevens Institute of Technology</i>	Measurable Requirements for Operational Resilience <i>Dr. Peter Beling</i> <i>Virginia Tech</i>	Defense Acquisition University Credential Development and Workforce Development in AI & Data Analytics <i>Dr. A. Emrah Bayrak</i> <i>Stevens Institute of Technology</i>
12:30 PM	Lunch		
1:00 PM	Lunch Keynote <i>Dr. Steven G. Wax, Performing the Duties of the Assistant Secretary of Defense for Science and Technology (INVITED)</i>		
2:30 PM	Integrated Mission Equipment (IME) Architecture Process for Vertical Lift Systems <i>Dr. Bryan Mesmer</i> <i>The University of Alabama in Huntsville</i>	Quantum Technologies for Armament Systems <i>Dr. Chunlei Qu</i> <i>Stevens Institute of Technology</i>	FLETC (Federal Law Enforcement Training Center) Training Systems Curriculum Study <i>Dr. Barry Ezell</i> <i>Old Dominion University</i>
3:15 PM	Networking Break		
3:30 PM	Space Systems Command Military Communications & Positioning, Navigation, and Timing Directorate – Mission Engineering and Integration of Emerging Technologies <i>Dr. Michael Orosz</i> <i>University of Southern California</i>	Learning Enhanced Autonomous Navigation for GPS Denied Vehicles <i>Mr. Paul Szenher</i> <i>Stevens Institute of Technology</i>	Policy Options to Promote DoD-Defense Industry Collaboration in STEM Education and Workforce Development Programs, Activities, and Outreach <i>Dr. Payuna Uday</i> <i>Stevens Institute of Technology</i>
4:15 PM	Systems Engineering Modernization/Acquisition with Digital Engineering <i>Mr. Tom McDermott</i> <i>Stevens Institute of Technology</i>	Trusted Artificial Intelligence Systems Engineering Challenge <i>Dr. Peter Beling</i> <i>Virginia Tech</i>	Policy Innovations to Enhance the STEM Talent Pipeline <i>Dr. William Rouse</i> <i>Georgetown University</i> <i>Dr. Cesare Guariniello</i> <i>Purdue University</i>
5:00 PM	Closing Plenary: Integration of Systems Engineering in Undergraduate Education - Capstone Marketplace		
5:30 PM	Adjourn		