

SERC SPONSOR 11th ANNUAL RESEARCH REVIEW

19 NOVEMBER 2019 | FHI 360 - 1825 CONNECTICUT AVE NW 8TH FL. WASHINGTON, DC

8:00 – 8:30	REGISTRATION CONTINENTAL BREAKFAST				
8:30 – 8:45	Welcome & Opening Remarks Dr. Dinesh Verma, Executive Director, SERC and Dr. Yehia Massoud, Dean, School of Systems & Enterprises, Stevens Institute of Technology				
8:45 – 9:00	Kickoff Systems Engineering Perspectives for Today's Environment (Roadmaps) Mr. Tom McDermott, Deputy Director, SERC				
9:00 – 9:15	Introductory Remarks Dr. Paul Kaminski, Chairman SERC Advisory Board				
9:15 – 10:00	MORNING KEYNOTE Dr. Sandra Magnus, Deputy Director (Engineering)/Chief Engineer -OUSD (R&E), DoD				
10:00 – 11:00	Morning Panel – Dr. Dan DeLaurentis, Chief Scientist, SERC (Moderator) Dr. Thomas Karr, <i>Assistant Director of Directed Energy (invited)</i> Dr. Daniel Ragsdale, <i>Assistant Director for Cyber, in the Office of the Director of Defense Research and Engineering (confirmed)</i> Dr. Michael Zatman, <i>Assistant Director for Fully Networked C3, US Department of Defense (confirmed)</i>				
11:00 – 11:15	POSTER SESSION NETWORKING BREAK				
	VISTA ROOM	ANGLE ROOM	BALCONY ROOM D	BALCONY ROOM E	
	TRACK 1 VELOCITY	TRACK 2 DIGITAL ENGINEERING	TRACK 3 SECURITY	TRACK 4 HUMAN CAPITAL DEVELOPMENT	
11:15 – 11:50	Identifying and Measuring Modularity Violations in Cyber-Physical Systems Lu Xiao, Stevens	Digital Engineering Metrics Tom McDermott, Stevens	Cyber Security Requirements Methodology: Tools & Transition Peter Beling, UVA	Capstone Marketplace Bill Shepherd, Stevens	
11:55 – 12:30	Global Positioning Systems - Mission Engineering and Integration of Emerging Technologies Michael Orosz, USC	Model-Centric Engineering (NAVAIR & CCDC-AC) Mark Blackburn, Stevens	System Security and Heterarchical Design Valerie Sitterle, Georgia Tech	Digital Engineering Competency Framework Jon Wade, Stevens	
12:35 – 1:00	LUNCH POSTER SESSION NETWORKING BREAK				
1:00 – 1:45	AFTERNOON KEYNOTE Dr. Kenneth Ford - Founder and Chief Executive Officer, Florida Institute for Human & Machine Cognition (IHMC)				
1:45 – 2:20	TRACK 1 VELOCITY	TRACK 2 DIGITAL ENGINEERING	TRACK 3 SECURITY	TRACK 4 HUMAN CAPITAL DEVELOPMENT	
	INCUBATORS VE & HCD Laura Freeman, VTech Ye Yang, Stevens	Model Curation Innovation and Implementation Donna Rhodes, MIT	Formal Methods in Resilient Systems Design using a Flexible Contract Approach Azad Madni, USC	Workforce Evolution (Helix) Pamela Burke, Stevens	
2:25 – 3:00	POSTER SESSION / NETWORKING	TRACK 5 AI & AUTONOMY	Model-Based System Assurance Tom McDermott, Stevens	TRACK 6 MISSION ENGINEERING	
		BEST STUDENT PAPER TBD		Meshing Capability & Threat-Based S&T Resource Allocation Carlo Lipizzi, Stevens	SE Business & Analytics K.P. Subbalakshmi, Stevens
3:05 – 3:40		System Qualities (SQs) Tradespace and Affordability Barry Boehm, USC	INCUBATORS - AI Mark Austin Paul Collopy & Valerie Sitterle Daniel Selva, Texas A&M	Game-Theoretic Risk Assessment for Distributed Systems (GRADS) Paul Grogan, Stevens	Approaches to Achieve Modularity Benefits in the Acquisition Ecosystem Cesare Guariniello / Dan DeLaurentis, Purdue
3:45 – 4:20		Data Science Approaches to Prevent Failures in Systems Engineering Bruno Ribeiro, Purdue	Next Gen. Adaptive Cyber Physical Human Systems Azad Madni, USC	Risk-based Approach to Cyber Vulnerability Assessment using Static Analyses Barry Horowitz & Tim Sherbune, UVA	INCUBATORS - ME Rich Malak, Texas A&M Mike Pennock, Stevens Eric Weisel, ODU
4:25 – 5:25	NETWORKING PI 101 Workshop		Executive Advisory Board Meeting (invitation only)		



**SYSTEMS
ENGINEERING
RESEARCH CENTER**

A University-Affiliated Research Center (UARC) of the US Department of Defense, leverages the research and expertise of faculty, staff, and student researchers from more than 20 collaborating universities throughout the United States. SERC is unprecedented in the depth and breadth of its reach, leadership, and citizenship in Systems Engineering.