



9:00 -- 9:55 AM	CHECK-IN	POSTER EXPO	NETWORKING
10:00 -- 10:10 AM	WELCOME & OPENING REMARKS: Mr. Tom McDermott, Deputy Director, Chief Technology Officer, SERC		
10:15 -- 10:40 AM	Strategy Dynamics and System-of-Systems Tradespace Exploration Jordan Stern , Stevens Institute of Technology		
10:45 -- 11:10 AM	Unmanned Aerial Systems (UAS) Sensor Data Networking Russell Shirey , Maj USAF, SERC Doctoral Fellow, Purdue University		
11:10 -- 11:20 AM	10 MIN BREAK		
11:20 -- 11:45 AM	Quantitative Methods for Set-Based Design (SBD) Shawn Dullen , U.S. Army Combat Capabilities Development Command (CCDC), SERC Doctoral Fellow, Stevens Institute of Technology		
11:50 -- 12:15 PM	Game Balance and Game Breaking: A Game Theory Approach Prajwal Balasubramani , Purdue University		
12:20 -- 12:45 PM	Compositionality in Cyber-Physical Systems Theory Georgios Bakirtzis , University of Virginia		
12:45 -- 1:15 PM	LUNCH	POSTER EXPO	NETWORKING
1:15 -- 1:40 PM	Applying Search Optimization Techniques in the Incorporation of New Technologies and Innovations in Modular System Upgrades Romulo Broas , Raytheon, SERC Doctoral Fellow, Stevens Institute of Technology		
1:45 -- 2:10 PM	The Implementor's Dilemma for Digital Engineering Stephanie Sharo Chiesi , Formerly Raytheon, SERC Doctoral Fellow, Stevens Institute of Technology		
2:15 -- 2:40 PM	MBSE Benefits: Evidence from the Literature and Insights from Practitioners Kaitlin Henderson , Virginia Tech		
2:40 -- 2:50 PM	10 MIN BREAK		
2:50 -- 3:15 PM	Rapid Aerostructural Design of UAV Wings for Direct Toolpath Generation Justin Valenti , Penn State		
3:15 -- 3:40 PM	Identifying Security Patterns for Modular Open Systems Giselle Bonilla-Ortiz , Raytheon, SERC Doctoral Fellow, Stevens Institute of Technology		
3:40 -- 4:00 PM	CLOSING REMARKS: Mr. Tom McDermott, Deputy Director, Chief Technology Officer, SERC		
4:00 -- 5:00 PM	VIRTUAL RECEPTION	PI / SPEAKER CHECK IN	POSTER EXPO
	Join us in a casual meet and greet, to reconnect with colleagues and make some new connections.	All PI's & Speakers will be invited to this meeting space, to check-in and review any questions about their sessions. (OPTIONAL)	All SDSF presenters research work is showcased within the Poster Expo.



8:30 - 9:00 AM	CHECK-IN	NETWORKING	POSTER EXPO
9:00 - 9:15 AM	WELCOME & OPENING REMARKS / AWARDS: Dr. Dinesh Verma - Executive Director, SERC		
9:15 - 10:00 AM	MORNING KEYNOTE: Dr. Magnus; Deputy Director for Engineering, Office of the Under Secretary of Defense for Research and Engineering		
10:05 - 11:05 AM	PANEL: Mission Engineering Research Challenges PANELISTS: Elmer L. Roman, OUSD, (R&E) AC / Engineering; Donna Rhodes, MIT; Alejandro Salado, Virginia Tech; Dorothy McKinney, SE Consultant; Ryan Noguchi, Aerospace Corporation MODERATORS: Judith Dahmann, MITRE and Dan DeLaurentis, Purdue; Chief Scientist, SERC		
11:05 - 11:30 AM	BEST STUDENT PRESENTATION	NETWORKING	POSTER EXPO
11:30 - 12:10 PM	DIGITAL ENGINEERING	SECURITY	AI & AUTONOMY
	WRT-1008 & ART 002 <i>Transforming Systems Engineering through Model-Centric Engineering / MBSE</i> Dr. Mark Blackburn, Stevens	WRT-1013 <i>Reducing Total Ownership Cost (TOC) and Schedule</i> Dr. Peter Beling, UVA	WRT-1010 <i>Meshing Capability and Threat-based Science and Technology (S&T) Resource Allocation</i> Dr. Carlo Lipizzi, Stevens
	ART-015 <i>New Observing Strategies Testbed (NOS-T) Design and Development</i> Dr. Paul Grogan, Stevens	ART-004 & WRT-1033 <i>Methods to Evaluate Cost/Technical Risk and Opportunity Decisions for Security Assurance in Design</i> Mr. Tom McDermott, Stevens Dr. Peter Beling, UVA	WRT-1017 <i>Keyphrase Extraction Using Language Embeddings - Phase I & Phase II</i> Dr. K. P. Subbalakshmi, Stevens
	WRT-1009 <i>Model Curation Innovation and Implementation</i> Dr. Donna Rhodes, MIT	WRT-1022 <i>Developmental Test and Evaluation (DT&E) and Cyberattack Resilient Systems</i> Dr. Barry Horowitz, UVA Dr. Cody Fleming, Iowa State	WRT-1019 <i>Adaptive Cyber-Physical-Human Systems Testbed</i> Dr. Azad Madni, USC
12:15 - 12:55 PM			MISSION ENGINEERING
			WRT-1002 <i>Approaches to Achieve Benefits of Modularity in Defense Acquisition - Part 2</i> Dr. Cesare Guariniello, Purdue
12:15 - 12:55 PM			ART-005 <i>Methods for Integrating Dynamic Requirements & Emerging Technologies</i> Dr. William Rouse, Georgetown
1:00 - 1:40 PM			ART-010 <i>Managing System-of-Systems Complexity for Distributed Command and Control (C2)</i> Dr. Dan DeLaurentis, Purdue
1:40 - 2:05 PM	25-MIN BREAK	NETWORKING	POSTER EXPO
2:05 - 2:35 PM	AFTERNOON KEYNOTE - The Acquisition Innovation Research Center		
2:40 - 3:20 PM	WRT-1001 <i>Digital Engineering Measures</i> Mr. Tom McDermott, Stevens	ART-014 <i>Quantum Photonics Tasks for Research</i> Dr. Yuping Huang, Stevens	HUMAN CAPITAL DEVELOPMENT
			WRT - 1004 <i>Helix - Organizational Systems Engineering Effectiveness 2019</i> Dr. Nicole Hutchison, Stevens
3:25 - 4:05 PM	ART-016 <i>Integrated Mission Equipment (IME) Architecture Process for Vertical Lift Systems</i> Dr. Paul Collopy / Dr. Bryan Mesmer, UAH	ART-001 <i>Characterization of Emerging Technologies in Military</i> Dr. Pradeep Lall, Auburn	WRT-1006 <i>Preparing the Acquisition Workforce for Digital Engineering - Developing a Digital Engineering Competency Framework</i> Dr. Nicole Hutchison, Stevens
4:10 - 4:50 PM	VELOCITY		
	WRT-1012 <i>Global Positioning Systems - Mission Engineering and Integration of Emerging Technologies</i> Dr. Michael Orosz, USC	ART-006 <i>Risk Based Approach to Cyber Vulnerability Assessment</i> Dr. Peter Beling, UVA	WRT-1007 <i>Capstone Marketplace</i> CAPT Bill Shepherd, Stevens
4:55 - 5:35 PM	WRT-1016 <i>Reducing Total Ownership Cost (TOC) and Schedule</i> Dr. Barry Boehm, USC	COVID-19 SURVEY <i>On comparing the effects of "Work at Home" during COVID-19 between Systems Engineers and General Population</i> Dr. Jose Ramirez-Marquez, Stevens	WRT-1025 <i>Using AI/ML Design Patterns for Digital Twins and Model-Centric Engineering</i> Dr. Mark Austin, University of Maryland
4:55 - 5:35 PM			WRT-1018 <i>DAU Credential Development</i> Mr. Ralph Griffin, Stevens
5:40 - 6:00 PM	CLOSING REMARKS Dr. Dinesh Verma - Executive Director, SERC; Mr. Tom McDermott, Deputy Director, Chief Technology Officer, SERC		