*Presenter   **Moderator

Time	Room B1220	Room B1270
9:00 AM	**Welcome and Opening Remarks** **Dr. John Lach,** *Dean, School of Engineering and Applied Science, The George Washington University* **Dr. Jason Cook,** *Senior Scientific Technical Manager (SSTM) for Systems Engineering Research, US Army DEVCOM Armaments Center*	
9:20 AM	**Keynote** **Ms. Jennifer Swanson,** *Deputy Assistant Secretary of the Army for Data, Engineering & Software (DASA(DES)), ASA(ALT)*	
10:05 AM	**US Army DEVCOM Armaments Center Perspectives** **Dr. Myron Hohil,** *SSTM for Artificial Intelligence, Sensors & Collaborative Munitions, US Army DEVCOM Armaments Center*	
10:25 AM	**Morning Break**	
10:45 AM	**Panel 1 - Certification of Learning-Based Systems** **Dr. Zoe Szajnfarber**,** *The George Washington University* **Dr. Jonathan Barkand,** *Program Manager for Learning Systems, DAU* **Dr. Tyler Cody,** *Virginia Tech* **MAJ Christine Krueger,** *The George Washington University* **Dr. Jason Summers,** *ARiA*	**Panel 2 - Application of LLMs to SE** **Dr. Myron Hohil**,** *US Army DEVCOM Armaments Center* **Mr. Amir Abrari,** *SPEC Innovations* **Mr. John Crissman,** *CNA Corporation* **Dr. Carlo Lipizzi,** *Stevens Institute of Technology*
11:45 AM	**Lunch**	
12:45 PM	**Track 1 - Trustworthy AI** **Dr. Val Sitterle**,** *Georgia Tech Research Institute* **Establishing a Measurement Science for Joint Work with Models** **Dr. Peter Denno*,** *National Institute of Standards and Technology*	**Track 2 - AI4SE** **Dr. Peter Beling**,** *Virginia Tech* **AI-Assisted Generation of SysML Models to Accelerate Agile Digital Engineering** **Mr. Matthew Jones*, Ms. Erin Crabb,** *Leidos*
1:15 PM	**Application of Systems Theoretic Process Analysis (STPA) to the Mission Assurance of AI-Enabled Systems** **Mr. Robert Crombie*, Mr. Daniel Byrne,** *The Aerospace Corporation*	**Requirement Discovery Using Embedded Knowledge Graph with ChatGPT** **Dr. Nipa Phojanamongkolkij*, Mr. Braxton VanGundy*, Mr. Ramana Polavarapu, Mr. Joshua Bonner,** *NASA Langley Research Center* **Dr. Barclay Brown*,** *Collins Aerospace*
1:45 PM	**Application of the Traditional Materiel Release Process to the DoD Ethical Principles of Artificial Intelligence, and Roadmap** **Mr. Benjamin Werner*, Mr. Benjamin Schumeg,** *US Army DEVCOM Armaments Center*	**LLM Based SysML Virtual Assistant** **Mr. Alexander Demagall*, Mr. Gabe Apanza, Dr. Daniel Selva,** *Texas A&M University*
2:15 PM	**Track Change Break**	
2:20 PM	**Using Artificial Intelligence to Accelerate Deployment of Learning-Based Systems** **Dr. Jason Gregory*,** *US Army DEVCOM Research Laboratory* **Dr. Satyandra K. Gupta,** *University of Southern California*	**Melding Minds and Machines: Harnessing AI Capabilities to Further Model-Based Guided Engineering** **Ms. Melinda Ong*, Mr. Andrew Gaskins,** *Booz Allen Hamilton*
2:50 PM	**Conformal Prediction for Testing and Evaluation of Intelligent/ML Systems** **Mr. Paul Horton*,** *Georgia Tech Research Institute*	**A Constructed System of Analysis to Enable Automation and Reasoning in Multi-Model Analysis** **Mr. Daniel Dunbar*, Dr. Mark Blackburn, Dr. Tom Hagedorn,** *Stevens Institute of Technology*
3:20 PM	**Evaluating the Explainability and Interpretability of AI Systems** **Ms. Alaysha Shearn*, Dr. David Broniatowski, Dr. Armin Vosoughi,** *The George Washington University* **Dr. Valerie Reyna,** *Cornell University*	**Large Language Model Enabled Generation of Systems Engineering Artifacts** **Dr. Paul Wach*, Dr. Taylan Topcu, Mr. Mohammed Husain*,** *Virginia Tech*
3:50 PM	**Afternoon Break**	
4:20 PM	**Keynote** **Dr. Kimberly Sablon,** *Principal Director, Trusted Artificial Intelligence and Autonomy, OUSD(R&E)*	
5:05 PM	**Day 1 Closing Remarks / Agenda Review Day 2** **Dr. Peter Beling,** *Virginia Tech* **Mr. Al Stanbury,** *US Army DEVCOM Armaments Center*	

SYSTEMS ENGINEERING RESEARCH CENTER

U.S. ARMY

DEVCOM ARMAMENTS CENTER

*Presenter   **Moderator

Time	Room B1220	Room B1270
9:00 AM	**Welcome from SERC & Keynote Introduction** *Dr. Dinesh Verma, Executive Director, SERC*	
9:15 AM	**Keynote - Transforming Lockheed: Committed to Change** *Mr. Michael "Rabbi" Harasimowicz, Director, AI Innovations, Lockheed Martin*	
10:05 AM	**SERC Perspectives** *Dr. Peter Beling, Director, Intelligent Systems Division, Virginia Tech National Security Institute and SERC Research Council Member* *Dr. Ali Raz, Assistant Professor, George Mason University*	
10:25 AM	**Morning Break**	
10:45 AM	**Keynote Panel - Comparing Ethical and Safety Frameworks for Promoting Trust in AI Systems** *Mr. Andy Lacher**, Chief Technologist for Future Airspace Operations, NASA Langley Research Center* *Dr. David Broniatowski, Associate Professor of Engineering Management and Systems Engineering, The George Washington University* *Mr. Chuck Howell, Senior AI Advisor, MITRE* *Dr. Kim Wasson, Autonomy Certification Lead, Joby Aviation*	
11:45 AM	**Lunch**	
	Room B1220	**Room B1270**
12:45 PM	**Track 3 - Human/AI Teaming** *Dr. Ralph Tillinghast**, US Army DEVCOM Armaments Center*	**Track 4 – SE4AI** *Dr. Jason Cook**, US Army DEVCOM Armaments Center*
	Is the Machine a Partner or a Tool? A Major Issue of Human-AI Teaming *Dr. Guy Boy*, Paris Saclay University (CentraleSupélec) & ESTIA Institute of Technology*	**Hiring Trained Animals: Generative AI Patterns and Practices for Systems Engineering** *Dr. Barclay Brown*, Collins Aerospace*
1:15 PM	**What is Human in the Loop, Really?** *Mr. Aditya Singh*, Dr. Zoe Szajnfarber,* *The George Washington University*	**Systems' Perspectives for AI Acceleration in Large Enterprises and Government Agencies** *Dr. Jyotirmay Gadewadikar*, Mr. Jim Lockett*,* *Mr. Jeremy Marshall, MITRE*
1:45 PM	**Track Change Break**	
1:50 PM	**Managing the Continuity of Human Biases in AI SE Applications** *Dr. Steven Conrad*, Colorado State University* *Ms. Heidi Perry, MIT Lincoln Laboratory*	**Test and Evaluation (T&E) of Complex AI-Enabled Systems (AIES)** *Dr. Flo Reeder*, Ms. Elena Charnetzki, MITRE*
2:20 PM	**Opportunities and Risks of Incorporating LLMs in the Systems Engineering and Design Workflow: A Case Study of Robotic System Design Process** *Dr. Zoe Szajnfarber*, Mr. Oladele (Richard) Adeyeye,* *Dr. Robert Pless, The George Washington University*	**Systems Engineering Processes to Test AI Right (SEPTAR)** *Ms. Carol Pomales*, Dr. Flo Reeder, Dr. Carlos Balhana* *Mr. Jim Lockett, Ms. Ivy Chen, MITRE*
2:50 PM	**Afternoon Break**	
3:20 PM	**The Need to Update Design and Certification Performance Standards for Operator Intervention of Autonomous Systems** *Dr. Lance Sherry*, Dr. George Donohue,* *Ms. Jomana Bashata, George Mason University*	**A Systems Engineering Perspective on Safety of AI-based systems** *Mr. Reginald Holmes*, Dr. Hanumanthrao "Rao" Kannan,* *University of Alabama in Huntsville*
3:50 PM	**Mission Engineering in Healthcare and What We Can Apply to the Military** *Mr. Richard Threlkeld*, Dr. Cihan Dagli,* *Missouri University of Science and Technology*	**Simulating the Tradespace with Synthetic Data** *Dr. Cameron Turner*, Clemson University* *Dr. Matthew Castanier, Dr. David Gorsich, Dr. Greg Hartman,* *US Army Ground Vehicle Systems Center*
4:20 PM	**Closing Remarks** *Dr. Zoe Szajnfarber, The George Washington University*	