TECH TRACK - TUESDAY, AUGUST 11

SOUTH HALL, MEETING ROOM 1 ARTIFICIAL INTELLIGENCE / MACHINE LEARNING		
TIME	**TITLE**	**AUTHOR(S) / SPEAKER(S)**
0900	***Welcome***	Session Chair: Dr. Philomena Compton *Mission Multiplier*
0905	Cyber-Resilient Machine-Learning Framework for Real-Time Adaptive Beamforming for Sparse Radars	Ernest (eg) Friedel *Northrop Grumman*
0930	Accelerated Satellite Situational Awareness Platform (AS2AP): A Physics-Informed Machine Learning System for Predictive Space Domain Awareness	Isaac Woodard *KODA Technologies Inc.*
0955	Continuous Systems Engineering: An AI-Driven Approach to MBSE	Jared Smith *Deloitte*
1020	AI-Native Sensors for Hypersonic Detection and Tracking: Engineered Optics for Low-SWaP Platforms	Daniel Wald *Booz Allen Hamilton;* Kevin Kearney *Eoptic*
1045	***Break***	
1330	***Welcome***	Session Chair: Dr. Philomena Compton *Mission Multiplier*
1335	ML/AI based on Avian Predator/Prey Behavior Applications for Space-Based Interceptors	Jaojang Su, Peter Grossman, Joshua Ellis *Astrion*
1400	Multimodal Retrieval-Augmented Generation Techniques for Hypersonic Test and Evaluation Knowledge Management	Nathan Henderson, Eric Jurbergs, Bruce Moylan *Corvid Technologies;* Matt Whitfield *Russell Technical Consulting Services*
1425	Deploying Machine Learning Ensembles with Agentic Intrusion Protection System (IPS) for Satellite Cybersecurity	Kiel Brunner, Kendra Finney, Ben Moreland *Deloitte & Touche LLP*
1450	***Break***	
1500	***Welcome***	Session Chair: Dr. Philomena Compton *Mission Multiplier*
1505	Physics-Informed Long Horizon Trajectory Forecasting	Stephen Gerrells, Dylan Bowald, Faries Tadros, Jordan Trinka *Booz Allen Hamilton*
1530	Graph-Based Evidence Chains for Agent-Assisted Defense Program Reviews	Josh Phillips, J. Langley *CohesionForce, Inc*
1555	Multi-View Instance Consistency for Applications in Space and Missile Defense	Sambit Bhattacharya *Fayetteville State University;* Kyle Nakamoto Booz Allen Hamilton
1620	Intrusion Detection in Space Vehicles Using Power Telemetry Analytics	Kiel Brunner, Sridevi Perumal, Pranav Singh *Deloitte & Touche LLP*

TECH TRACK - TUESDAY, AUGUST 11

SOUTH HALL, MEETING ROOM 2 MODELING & SIMULATION / SMDT		
TIME	**TITLE**	**AUTHOR(S) / SPEAKER(S)**
0900	***Welcome***	Session Chair: Dr. James Chism *CFD Research*
0905	Hypersonic Signature Simulation Utilizing Reduced Order Models for Mission Level Trade Studies	Ryan Kynor *AGI;* Felipe Mercado, Maxime Callier, Rob Rogers *Synopsys*
0930	Mission Engineering the Golden Dome	Al Guber *Arcfield*
0955	Redefining Radar Algorithm Development with High-Fidelity Modeling and Simulation	Deshawn Brown *Northrop Grumman*
1020	Virtual Composable Testbeds: Advancing Digital Engineering for Missile Defense	Tate Fonville, Keith Godwin *Torch Technologies*
1045	***Break***	
1320	***Welcome***	Session Chair: Dr. James Chism *CFD Research*
1325	Built to Spec, Lost in Execution: How Defense Programs Lose Control After Engineering	Padma Raghunathan *Deltek*
1350	Powering Golden Dome: IT Modernization, Digital Engineering and Sustainment	Nathan Feher, Patrisha Knight *Amentum*
1415	A Unified Digital Engineering Environment for Verification & Validation of Cyber Physical Systems	Matthieu Paquet, Reni Raju *Synopsys Inc.*
1440	***Break***	
1450	Evolution of Advanced Modeling and Distributed Simulation Architecture Supporting Next Generation Integrated Air and Missile Defense Systems of Systems	Peter Grossman, Julien Pierru *Astrion, LLC*
1515	Prioritizing LEO-Based Threats in US Military Space Strategy: A Framework for Resilience, Deterrence, and Operational Advantage	Eric Handy, Justin Ramsey, Cristopher Wood *Deloitte & Touche LLP*
1540	Systems Security Engineering for Space & Missile Defense	Robert Woods *Equator Corporation*
1605	Silent Shield: On-Orbit Lessons in Space Cyber Defense	Ryan Roberts *Deloitte & Touche LLP*
1630	Modular Spark Gap Array (MSGA): A Scalable Directed Energy Architecture for Future Space and Missile Defense Systems	Mohammed Saleh *Cusp Technologies Corporation*

TIMES ARE SUBJECT TO CHANGE
PLEASE SCAN QR CODE FOR UPDATED AGENDA

TECH TRACK - WEDNESDAY, AUGUST 12

SOUTH HALL, MEETING ROOM 1 / PLAYHOUSE ARTIFICIAL INTELLIGENCE IN SPACE AND MISSILE DEFENSE		
TIME	**TITLE**	**AUTHOR(S) / SPEAKER(S)**
0900	***Welcome***	Session Chair: Dr. Philomena Compton *Mission Multiplier*
0905	Closing the Human Gap in Defense: Real-Time Behavioral Intelligence for Decision Support, Modeling, and Training	Vineetha Menon, Kristin Weger *The University of Alabama in Huntsville*
0930	Engineering the AI-Driven Future: How Digital Thread Architecture Delivers Speed Without Losing Control	Padma Raghunathan *Deltek*
0955	Democratizing AI for Individual Programs	Brad Morrow *One Technology Corporation*
1045	***Break***	
1335	***** Panel: AI in Space - VBC PLAYHOUSE *****	
1450	***Break***	
1500	***Welcome***	*Session Chair: Dr. Philomena Compton* *Mission Multiplier*
1520	***SCOPE: Natural Language-Driven Generative Design and Advanced Genetic Algorithms for Rapid Space Architecture Optimization***	Tyler Linfesty, Al Guber *Arcfield*
1545	Policy-Driven Kill Chain Automation for On-Orbit Decision and Action	Jeff Aristoff, Clay Stanek, David Riser, Kevin Courter *Camgian*
1610	From Disparate Data to Decisive Action: An AI-Enabled Program Management Decision Platform Built Live on Palantir Foundry	Jake Andrews *PVM*

***** Panel: AI in Space - VBC PLAYHOUSE *****

Session Chair: Todd Johnston
Deloitte & Touche LLP

Panel Members: LTG (Ret.) Tom James
Former Deputy Commander of U.S. Space Command

Brigadier General G. Robert J. Mikesh Jr.
Capability Program Executive for Offensive Fires, Army

Kevin Coggins
Deputy Associate Administrator for Space Communications and Navigation, NASA

Jan Niemiec
Managing Director of National Security for Google Public Sector

Dr. Steve Pierce
USASMDC Chief Technology Officer