Time	Tuesday, August 6, 2024 Title	Author(s)	Speaker
9:00 AM	**Welcome**	Session Host	Philomena Compton Mission Multiplier
9:05 AM	Impact of High-Altitude Nuclear Explosion on Early-Warning Radar: Weapon Effects, Confidence Levels, and Science Gaps	Jeffery, Canfield, Goertz, Haaser, Kirby, Nelson, Reisner Los Alamos National Laboratory	Christopher Jeffery Los Alamos National Laboratory
9:30 AM	Architectures and M&S for Precision Space Domain Awareness for Continuous Custody	Josh Haines Raytheon	Josh Haines Raytheon
9:55 AM	Automated System Modeling Using Davinci	Jared Fuchs Celedon Solutions	Jared Fuchs Celedon Solutions
10:20 AM	Threat Engineering Supporting Space and Missile Defense	Chis Inzana Systems Engineering Group, Inc.	Chis Inzana Systems Engineering Group, Inc.
10:45 AM	**Break**		
1:30 PM	**Welcome**	Session Host	Philomena Compton Mission Multiplier
1:35 PM	Using Hardware In the Loop (HWIL) As A "Range In The Box" to Assess High Energy Laser (HEL) Missile Defense Capabilities Prior to Range Testing	Mike Marcel Radiance Technologies	Mike Marcel Radiance Technologies
2:00 PM	Using SysML to Accelerate Modeling & Simulation Based Testing of Missile Defense Systems	Jeremy Jackson, May Schulte Northrop Grumman	May Schulte Northrop Grumman
2:25 PM	Assessment of Cued Acquisition Task Execution Using Transmit Beams and Radar Resource Data	Jordan Jones, Christopher Kitson Missile Defense Agency Operational Test Agency	Christopher Kitson MDA Operational Test Agency
2:50 AM	**Break**		
3:15 PM	**Welcome**	Session Host	Philomena Compton Mission Multiplier
3:20 PM	Draco Ventus Test Section Study	Robert Bauman, Zac Chapman, Roger Herdy CFD Research	Dr. Zac Chapman CFD Research
3:45 PM	In-Line Post Intercept Debris Modeling and Simulation for Complex Threat Scene Generation	Peter Grossman Systems Engineering Group, Inc.	Peter Grossman Systems Engineering Group, Inc.
4:10 PM	Establishing a Government-Led Community of Practice for Digital Transformation at Team Redstone	Anthony Still Army DEVCOM AvMC	Anthony Still Army DEVCOM AvMC

Time	Wednesday, August 7, 2024 Title	Author(s)	Speaker
9:00 AM	**Welcome**	Session Host	Dr. Conrad Patton CFD Research
9:05 AM	Reinforcement Learning-Based Battle Management for Current and Future Kinetic and Directed Energy Weapon Systems	Derek Sprinz Radiance Technologies	Derek Sprinz Radiance Technologies
9:30 AM	Overwatch & Hydra.ai: Enabling True Zero-Trust Space Systems by Redefining Cyber Intrusion Detection and AI Acceleration within Space-Based Zero-Trust Architectures	Guy Regev, Eric Hendrichson, Thomas Mallen Northrop Grumman	Guy Regev Northrup Grumman
9:55 AM	Accelerating Systems Engineering and Digital Traceability with Large Language Models	Dr. Ryan Nguyen, Katie Fisher Arcfield	Katie Fisher Arcfield
10:20 AM	Enhancing Space Systems Through AI Capabilities	Ralph Grundler, Brian Barker AiTech	Brian Barker AiTech
10:45 AM	**Break**		
1:30 PM	**Welcome**	Session Host	Dr. Conrad Patton CFD Research
1:35 PM	Enhancing Cyber Resilience in Space and Missile Defense: The Critical Role of Artificial Intelligence	Jonathan Hard H2L Solutions	Jonathan Hard H2L Solutions
2:00 PM	Analysis of Three-Dimensional (3-D) Radar Cross Section (RCS) Models Using Machine Learning (ML) Techniques for Hardware-in-the-Loop (HWIL) Simulations	Colby Wellington NE Technologies	Colby Wellington NE Technologies
2:25 PM	System Safety Process for Artificial Intelligence and Machine Learning Based Materiel	Dr. John Hall APT Research	Dr. John Hall APT Research
2:50 PM	**Break**		
3:15 PM	**Welcome**	Session Host	Dr. Conrad Patton CFD Research
3:20 PM	Classifying TID Signatures of Hypersonic Movers in Near Real Time Using AI/ML	Dr. Ryan Nguyen, Dr. Scott Thaller, Dr. Ian Collett, Dr. Ana Newheart, and Mr. Daniel Knight ArcField	Dr. Ryan Nugyen Arcfield
3:45 PM	The Role of Artificial Intelligence in AMD Sensor Control and Survivability	Chanler Cator Intuitive Research & Technology Corporation	Chanler Cator Intuitive Research & Technology Corporation
4:10 PM	Convolutional Neural Network (CNN) for Digital Radio Frequency Memory (DRFM)	EG Friedel Northrop Grumman	EG Friedel Northrop Grumman

TIMES SUBJECT TO CHANGE. CHECK SYMPOSIUM WEBSITE FOR UPDATES.