Time	Tuesday, August 8, 2023 Title	Author(s)	Speaker
9:00 AM	**Welcome**	Session Host	Philomena Compton Mission Multiplier
9:05 AM	Reverse Engineering Network APIs	Dan Nagle Entrepreneur	Dan Nagle Entrepreneur
9:30 AM	Cyber-Resilient Space Systems Architecture	Akram Hosain Northrop Grumman Systems	Akram Hosain Northrop Grumman Systems
9:55 AM	Need for Speed: Hardware-Expedited AI/ML Inference for Imagery	Blake Anderton, Jonathan Hampton Radiance Technologies	Blake Anderton Radiance Technologies
10:20 AM	Orbital Debris: A Cybersecurity Threat to Military Warfare and Space Systems	Philomena Compton Mission Multiplier	Philomena Compton Mission Multiplier
10:45 AM	**Break**		
1:30 PM	**Welcome**	Session Host	Philomena Compton Mission Multiplier
1:35 PM	AI/ML and Virtual Composite Testbeds	Daniel Tidwell Army SMDC	Daniel Tidwell Army SMDC
2:00 PM	Wave Function Collapse Algorithm for Automatic Design of Secure Networks	Grant Willey GaN Corporation	Grant Willey GaN Corporation
2:25 PM	Mobile Robot Navigation and Visual Object Recognition	Don Hambrick, David Noever, Brandon Rogers PeopleTec	David Noever PeopleTec
2:50 AM	**Break**		
3:15 PM	**Welcome**	Session Host	Philomena Compton Mission Multiplier
3:20 PM	Threat Hunting Space and Digital Energy with Physics	Paul Coggin NouSystems	Paul Coggin NouSystems
3:45 PM	Using Generative Artificial Intelligence to Explore Defense against Hypersonic Glide Vehicles	Jorge O'Farrill MTSI	Nathan Highsmith MTSI
4:10 PM			

Time	Wednesday, August 9, 2023 Title	Author(s)	Speaker
9:00 AM	**Welcome**	Session Host	Conrad Patton CFD Research
9:05 AM	Hypersonic/Ballistic Ground Testing and Mission Planning Innovations	Richard Barrow, Garry Freeman, Jay Epps Hill Techical Solutions, Army SMDC, Army AvMC	Garry Freeman Army SMDC
9:30 AM	System Integration Test Automation Using SysML and ATML	Patrick Buckley, Greg Brown, Heath Causey Integration Innovation, NI, NI	Patrick Buckley Integration Innovation
9:55 AM	Thin Wire Arrays for Over-The-Horizon Radar (OTHR) Applications	Hans Schantz GaN Corporation	Hans Schantz GaN Corporation
10:20 AM	Generating Synthetic Kinematic and Signatures Threat Data with Machine Learning Generative Models	Austin Patchin Northrop Grumman Space Systems	Austin Patchin Northrop Grumman Space Systems
10:45 AM	**Break**		
1:30 PM	**Welcome**	Session Host	Conrad Patton CFD Research
1:35 PM	Narrow Band Impulse Radio (NBIR)	Hans Schantz GaN Corporation	Hans Schantz GaN Corporation
2:00 PM	Predicting Kinematic Threat Model Allocation Feasibility with Machine Learning Binary Classifiers	Austin Patchin Northrop Grumman Space Systems	Austin Patchin Northrop Grumman Space Systems
2:25 PM	Missile Defense Layer Force Multiplication Through Advanced Boresight Scheduling	Timur Alexeev, Michael Moser Northrop Grumman Space Systems	Timur Alexeev Northrop Grumman Space Systems
2:50 PM	**Break**		
3:30 PM	**Welcome**	Session Host	Conrad Patton CFD Research
3:35 PM	Data Driven Modeling and Technique (as Applied to Hypersonic Flowfields and Signatures)	Charlie Stallard Northrop Grumman Space Systems	Charlie Stallard Northrop Grumman Space Systems
4:00 PM	Hypersonic Plasma & Electromagnetics Resource (HYPER): Rapid RF Analysis of High-Temperature Flowfields	Jared Magnussen, Pavan Patel, Andreas Hoffie CFD Research	Jared Magnussen CFD Research
4:25 PM	Application of a Quasi-1D Scramjet Model Coupled with CFD Solver for Faster Scramjet Signature Predictions	Chris Moore Northrop Grumman Space Systems	Chris Moore Northrop Grumman Space Systems

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