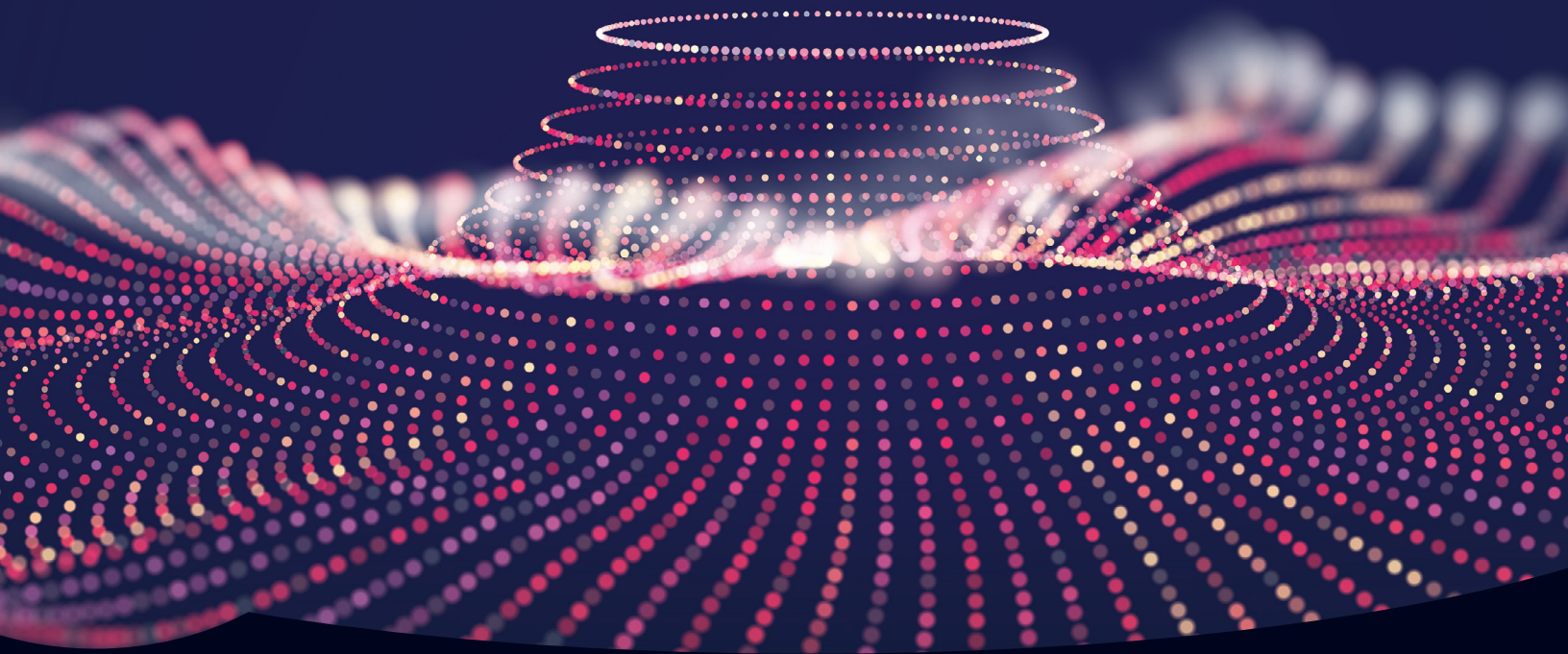


ETF



Agenda (as of 25 November, 2025)

Systems Planning and Analysis — Freedom Wargaming and Conference Center



Tuesday, 2 December 2025

Time	Event/Activity	Location
0730 – 0830	Registration & Continental Breakfast	<i>Freedom Center (FC) Reception</i>
0830 – 0845	MORS Welcome Mr. Nick Ulmer, <i>MORS President</i>	<i>Liberty 1 & 2</i>
0845 – 0900	ETF Welcome and Keynote Introduction Mr. Scott Cohick, <i>CANA</i>	<i>Liberty 1 & 2</i>
0900 – 1000	Keynote Speaker: Dr. Kelly Faddis, <i>Accenture Federal Services</i>	<i>Liberty 1 & 2</i>
1000 – 1030	Break	<i>FC Kitchen</i>
1030 – 1115	Bayesian Networks for Analytics and Modeling Dr. Benjamin M. Rodriguez, II, <i>Johns Hopkins University Applied Physics Laboratory</i>	<i>Liberty 1</i>
	Linear Programming for Sensor Coverage Optimization Mr. Daniel Daugherty, <i>Systems Planning and Analysis</i>	<i>Liberty 2</i>
1115 – 1200	Mathematical Foundations of Data Analytics for AI and Defense Applications Mr. Benjamin Johnson, <i>Johns Hopkins University</i>	<i>Liberty 1</i>
	Modeling Orbital Debris Effects on Satellite Operations Using Survival Curves for Campaign Analysis in STORM Mr. Ioannis Nikas, <i>Group W, an SPA Company</i>	<i>Liberty 2</i>
1200 – 1330	Lunch	<i>Magnolia Foyer (Hilton)</i>
1330 – 1415	From Probability to Possibility: Mathematical Foundations of Generative AI for Defense Analytics Dr. Erhan Guven, <i>Johns Hopkins University</i>	<i>Liberty 1</i>
	Simulating Civil-Military Coordination in Hybrid Crisis Environments: An LLM-Supported Wargaming Approach Ms. Elçin Ada Sayin, <i>Radius Defence</i>	<i>Liberty 2</i>
1415 – 1500	When Missiles Learn to Cooperate: Understanding AI and Distributed Reinforcement Learning in PLA Airpower Mr. Ed Negrelli, <i>DCS Corporation</i>	<i>Liberty 1</i>
	Kill Chain Modeling of Planetary Defense Campaigns Mr. Guillermo Castro Martinez, <i>Lawrence Livermore National Laboratory</i>	<i>Liberty 2</i>
1500 – 1530	Break (Refreshments provided)	<i>FC Kitchen</i>
1530 – 1615	Adaptive Analytic Workflows: Dynamic Chaining of AI/ML Models for Defense Decision Support Mr. John Dombzalski, <i>Danti AI</i>	<i>Liberty 1</i>
	Real-Time Cyber-Attack Detection and Assessment Using Bayesian Networks Dr. Lee T. Maccarone, <i>Sandia National Laboratories</i>	<i>Liberty 2</i>
1615 – 1700	Analysis of the Strategic Implications of the Use of Vibe Coding for Defense Applications Dr. Jeremy Straub, <i>University of West Florida</i>	<i>Liberty 1</i>
	Gray Zone Threats to Defense Critical Energy Infrastructure Supply Chains Mr. Joseph Michael Grappone, Jr., <i>Lawrence Livermore National Laboratory</i>	<i>Liberty 2</i>

Key: ■ Visco Prize Competition ■ Tutorials ■ Emerging Techniques ■ Campaign Analysis ■ Simulation

Wednesday, 3 December 2025

Time	Event/Activity	Location
0730 – 0830	Registration & Continental Breakfast	FC Reception
0830 – 0845	Welcome, Visco Announcement, and Keynote Introduction Mr. Scott Cohick, CANA	Liberty 1 & 2
0845 – 0945	Keynote Speaker: RADM Douglas W. Sasse, III (<i>Pending Approval</i>), Assessment Division, N81, Office of the Chief of Naval Operations	Liberty 1 & 2
0945 – 1045	Keynote: AI and Analytics at the Edge Speaker: Mr. Harrison Schramm, <i>Attributable Machines, LLC</i>	Liberty 1 & 2
1045 – 1100	Break	FC Kitchen
1100 – 1145	Planning and Targeting Using Cygnus Mr. Ralph Siegrist, III, <i>JHU/APL</i> CUI	Liberty 1
	Resilient Tasking and Basing Model (RTBM)—A Unique Capability for Modeling Air Power Basing and Force Projection in Peer-to-peer Conflicts Dr. Fred Woodaman, <i>The MITRE Corporation</i>	Liberty 2
	Using Video Gaming Mechanics to Level Up Stakeholder Adoption and Commitment in Presentations Mr. Walt DeGrange, CANA	Constitution
1145 – 1230	STRATA: Strategic Reasoning Agentic Use Case Dr. Michael Martinez, <i>The MITRE Corporation</i> CUI	Liberty 1
	Force-on-Force Modeling and Simulation for the Cybersecurity Analysis of Physical Protection Systems Dr. Lee T. Maccarone, <i>Sandia National Laboratories</i>	Liberty 2
	Advances in Tactical Drones, Air, Land, & Sea Mr. Charles D. Burdick, CAP, <i>ITA International, LLC</i>	Constitution
1230 – 1400	Lunch	Magnolia Foyer (Hilton)
1400 – 1445	Updated Doctrine in Modeling, Simulations, and Wargaming Mr. Peter C. Fisher, <i>Group W, an SPA Company</i> CLASSIFIED	Liberty 1
	SWIFT-STORM: Integrating Campaign Analysis and Wargaming to Meet Operational Design Needs Mr. Keith Kacmar, <i>Group W, an SPA Company</i>	Liberty 2
	Strategic Competition in Cislunar Space: A Hybrid Optimization-Wargaming Model for Lunar Infrastructure Deployment Mr. Joshua David Menges, <i>U.S. Army</i>	Constitution
1445 – 1530	BEAM Development and DOE Analysis Mr. Stephen Sturgeon, <i>KBR</i> CLASSIFIED	Liberty 1
	Evolutionary Design of Satellite Services Architectures Mr. Shane Vigil, <i>Systems Planning and Analysis</i>	Liberty 2
	Toward a More Resilient Defense Industrial Base Mr. Joseph A. Laville, <i>U.S. Navy</i>	Constitution
1530 – 1600	Break (Refreshments provided)	FC Kitchen
1600 – 1700	Senior Leader Panel Moderator: Dr. Angela Giddings, CAPE Panelists: Dr. Jerry Diaz, USAF/USSF (retired); Mr. Josh Helms, Center for Army Analysis; Mr. Tucker Hughes, Joint Staff J8; and Mr. Robert Chandler Swallow, SAF/AE. The Senior Leaders Panel features senior analysts from the military services who are the ultimate customers of the analysis done by MORS members. This frank discussion, moderated by Dr. Angela Giddings of CAPE, will provide ETF attendees the unique opportunity to hear directly from these leaders in the national security operations research community. The insights provided by our panelists are timely and often surprising, and always meaningful to our ETF participants.	Liberty 1 & 2
1700 – 1900	Networking Social	Magnolia Foyer (Hilton)

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Thursday, 4 December 2025

Time	Event/Activity	Location
0800 – 0845	Registration & Continental Breakfast	FC Reception
0845 – 0900	Welcome & Keynote Introduction Mr. Scott Cohick, CANA	Liberty 1 & 2
0900 – 1000	Keynote: Advancing Joint Tools for Joint Force Decisions Speaker: Mr. Tucker Hughes, Joint Staff J8	Liberty 1 & 2
1000 – 1030	Break	FC Kitchen
1030 – 1115	Bayesian Optimization – A Goal-Oriented Approach to Process Development Dr. Thomas A. Donnelly, JMP Statistical Discovery, LLC	Liberty 1
	Learning from Data: Mathematical Foundations of Machine Learning for Defense Analytics Dr. Alhassan S. Yasin, Johns Hopkins University	Liberty 2
	Beyond Black-Box AI: Hybrid Probabilistic Models for Defense Analysis Mr. Stefan Conrady, Bayesia USA	Constitution
1115 – 1200	Transforming Infrastructure Management: IRON's Multi-Tiered Approach to Investment and Budget Optimization Ms. Kimberly Cull, ITA International, LLC	Liberty 1
	Data to Dominance: Visualizing Defense Infrastructure through Cyber Laydowns Mr. Rei-Matthew DelaCruz Regala, Systems Planning and Analysis	Liberty 2
	Composable and Agentic Systems for Operational AI MAJ Iain Cruickshank, Ph.D., Special Operations Command	Constitution
1200 – 1330	Lunch	Magnolia Foyer (Hilton)
1330 – 1415	Robust Cyber Warfare: Private Actors, States, or Coalitions Prof. Abhishek Ray, George Mason University	Liberty 1
	Decision at the Speed of Mission: A Dual-Track Agile Framework for Cost Estimation Dr. Ekaterina Brancato, ITA International, LLC	Liberty 2
1330 – 1500	Tutorial: Observability and Evaluation in LLMs and Agentic AI Systems Mr. Amir K. Saeed, Johns Hopkins University	Constitution
1415 – 1500	Predicting Congressional Marks on an U.S. Army Appropriation Using Random Forest Supervised Learning Models Mr. Anthony Vincent White, U.S. Army	Liberty 1
	Risk-Aware Markov Decision Processes Dr. Jefferson Huang, Naval Postgraduate School	Liberty 2
1500 – 1530	Break (Refreshments provided)	FC Kitchen
1530 – 1615	Capstone Panel: “From Insights to Action” Moderator: Dr. Ben ‘BRod’ Rodriguez, JHU/APL Panelists: Panelists for this session will be invited based on Emerging Techniques presentations. <i>As the final session of the Emerging Techniques track, this wrap-up panel summarizes lessons from Day 1 foundations and Day 2 applications into concrete practices for the Day 3 PED mission thread. Panelists from operations, data engineering, and analysis will demonstrate how data analytics, generative AI, and agentic AI measurably compress PED timelines while increasing confidence, through streaming ingest and fusion with QC/lineage; VLM/LLM-aided detection, summarization, and grounded synthesis; and agentic workflows for cross-cueing, triage, packaging, and compliant dissemination. Discussion topics include evaluation (precision/recall, false-alarm rate, provenance coverage), governance and guardrails, integration patterns, and the evolving human-in-the-loop role.</i>	Liberty 1 & 2
1615 – 1630	Closing Remarks Mr. Scott Cohick, CANA	Liberty 1 & 2

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