ETF

Agenda *(as of 2 December, 2025)*

Systems Planning and Analysis — Freedom Wargaming and Conference Center

MORS

Tuesday, 2 December 2025

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

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, *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, *Attritable Machines, LLC*	*Liberty 1 & 2*
1045 – 1100	**Break**	*FC Kitchen*
1100 – 1145	**Planning and Targeting Using Cygnus** `CUI` Mr. Ralph Siegrist, III, *JHU/APL*	*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, *The MITRE Corporation*	*Liberty 2*
	Linear Programming for Sensor Coverage Optimization `CLASSIFIED` Mr. Daniel Daugherty, *Systems Planning and Analysis*	*Patriot*
1145 – 1230	**STRATA: Strategic Reasoning Agentic Use Case** `CUI` Dr. Michael Martinez, *The MITRE Corporation*	*Liberty 1*
	Force-on-Force Modeling and Simulation for the Cybersecurity Analysis of Physical Protection Systems Dr. Lee T. Maccarone, *Sandia National Laboratories*	*Liberty 2*
	Advances in Tactical Drones, Air, Land, & Sea Mr. Charles D. Burdick, CAP, *ITA International, LLC*	*Patriot*
1230 – 1400	**Lunch**	*Magnolia Foyer (Hilton)*
1400 – 1445	**Updated Doctrine in Modeling, Simulations, and Wargaming** `CLASSIFIED` Mr. Peter C. Fisher, *Group W, an SPA Company*	*Liberty 1*
	SWIFT-STORM: Integrating Campaign Analysis and Wargaming to Meet Operational Design Needs Mr. Keith Kacmar, *Group W, an SPA Company*	*Liberty 2*
	Strategic Competition in Cislunar Space: A Hybrid Optimization-Wargaming Model for Lunar Infrastructure Deployment Mr. Joshua David Menges, *U.S. Army*	*Patriot*
1445 – 1530	**BEAM Development and DOE Analysis** `CLASSIFIED` Mr. Stephen Sturgeon, *KBR*	*Liberty 1*
	Evolutionary Design of Satellite Services Architectures Mr. Shane Vigil, *Systems Planning and Analysis*	*Liberty 2*
	Toward a More Resilient Defense Industrial Base Mr. Joseph A. Laville, *U.S. Navy*	*Patriot*
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*; Mr. Stew Sharp, *OPNAV/N81C*; 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. Erhan Guven, *Johns Hopkins University*	*Liberty 2*
	Beyond Black-Box AI: Hybrid Probabilistic Models for Defense Analysis Mr. Stefan Conrady, *Bayesia USA*	*Patriot*
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 `CUI` MAJ Iain Cruickshank, Ph.D., *Special Operations Command*	*Patriot*
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*	*Patriot*
1330 – 1500	**Tutorial: Observability and Evaluation in LLMs and Agentic AI Systems** Mr. Amir K. Saeed, *Johns Hopkins University*	*Liberty 2*
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*	*Patriot*
1500 – 1515	**Break** *(Refreshments provided)*	*FC Kitchen*
1515 – 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. *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.*	*Liberty 1 & 2*
1615 – 1630	**Closing Remarks** Mr. Scott Cohick, *CANA*	*Liberty 1 & 2*

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