



**Monday, 7 December**

- 1000 – 1030 EST**      **Keynote**  
 Major General Richard C. Staats, Ph.D., Commanding General for the 75th Innovation Command  
*“Perspectives of an Old ORSA Soldier”*
- 1030 – 1045 EST**      **Chair Welcome**  
 Mr. Dave Saranchak, ETF Chair
- 1045 – 1100 EST**      **Junior Analyst Welcome**  
 Dr. Jonell Nicole Samberson, JAA Chair, Sandia National Labs  
 Dr. David J. Myers, JAA Transitional Chair, Air Force Research Laboratory

	<i><b>Tutorial Track</b></i>	<i><b>Visco Prize Competition</b></i>
<b>1100 – 1340 EST</b>	<b>Dynamic Network Analytics for Influence Campaign Assessment Tutorial</b> Dr. Kathleen Carley, Carnegie Mellon University	<b>Determination of Influential Factors on Roadway Bridge Sufficiency Using Inspection Data and LASSO: A Proof-of-Concept</b> MAJ Jaison Desai, PhD  <b>Getting to Real-Time Object Data and Tracking in All Battlespace Domains</b> Mr. Ian Featherstone  <b>Bandit Algorithms for Data-Driven Resolution/Field-of-View Tradeoffs in Multi-Mode Intelligence Collection</b> Dr. Jefferson Huang  <b>Uncertainty Analysis Through Design Threads</b> 1st Lieutenant Jeremiah Bill 2nd Lieutenant Michelle McGee AFIT

- 1340 – 1400 EST**      **Break**
- 1400 – 1500 EST**      **Plenary Speaker**  
 Dr. Robert Bassett, Assistant Professor of Operations Research, Naval Postgraduate School  
*“New Ways for Adversaries to Disrupt Neural Network Image Classifiers”*

1500 – 1650 EST	<b>Tutorial Track</b>	<b>Visco Prize Competition</b>
	<b>Use R with GIT! Differential Equation COVID-19 Propagation Modeling</b> MAJ Dusty Turner Mr. Robert Ward	<b>Tactical Augmented Optimization</b> Mr. Vincent Mendoza, Systecon LLC Mr. Bo Coleman, Systecon LLC  <b>Last-Mile Supply Chain Resilience Planning During Global Pandemics</b> Mr. Kyle B. Pfeiffer Ms. Carmella Burdi Mr. Scott Schlueter Argonne National Laboratory

1650 – 1700 EST      **Break**

1700 – 1800 EST      **Introduction to Bayesian Networks**  
Dr. Arch Turner

1800 – 1900 EST      **Junior Analyst Social**

**Tuesday, 8 December**

1000 – 1030 EST      **MORS Welcome, ETF Welcome & Visco Prize Award**  
CAPT Brian Morgan (Retd.), MORS President  
Mr. Dave Saranchak, ETF Chair  
Mr. Norm Reitter, Visco Prize Chair

1030 – 1120 EST      **Keynote Speaker**  
Ms. Deborah C. Gordon, Independent Consultant  
*“Same Storm, Different Boats.”*

	<b>Tradespace Exploration</b>	<b>AI Embedded Acquisition</b>
1120 – 1200 EST	<b><i>Uncertainty Analysis Through Design Threads*</i></b> 1st Lieutenant Jeremiah Bill 2nd Lieutenant Michelle McGee AFIT	<b>Commercial Technologies for Maintenance Activities - Sustainment Technology Transition Accelerator</b> Ms. Debra Lilu
1200 – 1240 EST	<b>Kriging-based Adaptive Sampling for Efficient Response Surface Estimation</b> Dr. Michael Deskevich Dr. Benjamin G. Thengvall Dr. Shane N. Hall OptTek Systems, Inc.	<b>Options to Use Artificial Intelligence (AI) in Assessment of Defense Acquisition Programs</b> Mr. Brian Rieksts Ms. Kristen Guerrera Institute for Defense Analyses

1240 – 1300 EST      **Partner Exhibits**

**1300 – 1400 EST**      **Information Warfare Panel Session**  
 Mr. Kevin Gates: President of Information Professionals Association  
 Dr. Rand Waltzman: Deputy CTO, RAND Corp

**1400 – 1500 EST**      **Plenary Speaker**  
 Mr. Harrison Schramm, Group W  
 Dr. Scott Nestler, University of Notre Dame

	<i>Multi-Domain and Analytics</i>	<i>Advances in Forecasting</i>
<b>1500 – 1540 EST</b>	<b><i>Getting to Real-Time Object Data and Tracking in All Battlespace Domains*</i></b> Mr. Ian Featherstone, SAIC	<b>Dynamic and Approximate Dynamic Programming for Future Investment Assessments – Value Iteration and Reinforcement Learning</b> Mr. Matthew Powers
<b>1540 – 1620 EST</b>	<b>Predictive Analytics in the Naval Maritime Domain</b> Dr. Bonnie Worth Johnson, Naval Postgraduate School	<b>Topological Data Analysis in Conjunction with Traditional Machine Learning Techniques to Predict Future MDAP PM Ratings</b> Mr. Brian Joseph, OUSD(A&S)
<b>1620 – 1700 EST</b>	<b><i>Tactical Augmented Optimization*</i></b> Vincent Mendoza, Systecon LLC Bo Coleman, Systecon LLC	<b>Leveraging Modeling and Simulation Tools to Support Performance Based Logistics Agreements</b> Mr. Ken Rebstock, Systecon LLC

**1700 – 1750 EST**      **Plenary Speaker**  
 Dr. Sam Savage, Executive Director, Probability Management

**1750 – 1800 EST**      **Closing**  
 Mr. Dave Saranchak, ETF Chair

**1800 – 1900 EST**      **Birds of a Feather Social**

*\*Denotes Visco prize competitor.*

**1000 – 1010 EST**      **Emerging Techniques Forum Welcome**  
Mr. Dave Saranchak, ETF Chair

**1010 – 1130 EST**      **Keynote Speaker**  
Dr. Daniel J. Ragsdale, Assistant Director for Cyber, in the Office of the Director of Defense Research and Engineering (Research & Technology)

	<i>Human Readiness and Behavior</i>	<i>Predicting Irregular Events</i>
<b>1130 – 1210 EST</b>	<b>Applying the Human Readiness Levels Scale</b> Dr. Judi E See, Sandia National Laboratories	<b>New Adaptive Sampling Techniques to Optimally Augment Complex Simulation Models</b> Dr. James Wisnowski, Adsurgo LLC Dr. Thomas A. Donnelly, SAS Institute Inc Dr. Darryl Ahner, OSD Scientific Test and Analysis Techniques COE Dr. Andrew Karl, Adsurgo, LLC
<b>1210 – 1250 EST</b>	<b>Influence Planning Product (IPP)</b> Dr. Earnest Lloyd Dr. Neil Sanger KBSI	<i><b>Determination of Influential Factors on Roadway Bridge Sufficiency Using Inspection Data and LASSO: A Proof-of-Concept*</b></i> MAJ Jaison Desai, PhD, U.S. Army Cyber Command
<b>1250 – 1330 EST</b>	<b>Modeling Effects of Non-Lethal Weapon Selection and Tactical Rules of Engagement on Crowds in Peace Operations</b> Dr. Susan K. Aros, Dr. Anne Marie Baylouny Naval Postgraduate School	<b>Risk Management for Irregular Events - Handling Unknown Unknowns, Black Swans, and Other Rare Hazards</b> Dr. Christian B. Smart, Galorath Federal

**1330 – 1400 EST**      **Break & Visit Partner Exhibits**

**1400 – 1500 EST**      **Plenary Speaker**  
Dr. Kathleen M. Carley, Carnegie Mellon University

	<b><i>Real Time Intelligence &amp; Information Awareness</i></b>	<b><i>Measuring Resilience</i></b>
<b>1500 – 1540 EST</b>	<b>Space / Solar Power</b> Mr. Shawn Charchan Mr. Harrison Schramm Group W	<b><i>Last-Mile Supply Chain Resilience Planning During Global Pandemics*</i></b> Mr. Kyle B. Pfeiffer, Argonne National Laboratory
<b>1540 – 1620 EST</b>	<b><i>Bandit Algorithms for Data-Driven Resolution/Field-of-View Tradeoffs in Multi-Mode Intelligence Collection*</i></b> Dr. Jefferson Huang Dr. Roberto Szechtman Naval Postgraduate School	<b>Community Resilience Indicator Analysis</b> Mr. John K. Hutchison Ms. Carmella Burdi Ms. Carol Freeman Mr. Kyle B. Pfeiffer Argonne National Laboratory

**1620 – 1700 EST**      **Break & Visit Partner Exhibits**

**1700 – 1750 EST**      **Plenary Speaker**  
Ms. Christine Cowser Chapman, Vice President, Asset Management and System Operations at Pacific Gas and Electric Company

**1750 – 1810 EST**      **Closing**  
Mr. Dave Saranchak, ETF Chair

*\*Denotes Visco prize competitor.*

### Thursday, 10 December

**1000 – 1010 EST**      **Emerging Techniques Forum Welcome**  
Mr. Dave Saranchak, ETF Chair

**1010 – 1100 EST**      **Keynote Speaker**  
Dr. Victoria Coleman, Director, Defense Advanced Research Projects Agency

	<b><i>Multi-Modal Human Stochasticity</i></b>	<b><i>Frontiers in Semantic and Blended Prediction Models</i></b>
<b>1100 – 1140 EST</b>	<b>Migrant Models Integration</b> Steven Jones, KaDSci, LLC Mr. Michael Resig, Innovative Decisions Inc.	<b>Unleashing insights in unstructured textual data</b> Andrew MacIsaac, Alteryx
<b>1140 – 1220 EST</b>	<b>Visual Analytics for Finance and Human Capital</b> Dr. Michael R. Hieb, US Department of Homeland Security Dr. Amber Sanders, Applied Research Associates, Inc.	<b>Navigating Language Models with Synthetic Agents</b> Dr. Philip Feldman
<b>1220 – 1300 EST</b>	<b>Break &amp; Visit Partner Exhibits</b>	

<b>1300 – 1340 EST</b>	<b>Multimodal Communication for Interactive Military Robots</b> Dr. Sheuli Paul, Defence Research and Development Canada	<b>Advanced Estimating Methodologies for Conceptual Stage Development</b> Mr. Chuck Alexander, JHU-APL
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**1340 – 1400 EST**      **ETF Chair Closing**  
Mr. Dave Saranchak, ETF Chair

**1500 – 1700 EST**      **Track 4 - Classified**  
Chair: Ms. Meredith Dozier  
*Defense Information Systems Agency (DISA) Defense Collaboration System (DCS)*