



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

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	<i>Tutorial Track</i>	<i>Visco Prize Competition</i>
	<p>Deterministic Modeling with Differential Equations in R and Collaboration with Git MAJ Dusty Turner Mr. Robert Ward</p>	<p>Tactical Augmented Optimization Mr. Vincent Mendoza, Systecon LLC Mr. Bo Coleman, Systecon LLC</p> <p>Last-Mile Supply Chain Resilience Planning During Global Pandemics Mr. Kyle B. Pfeiffer Ms. Carmella Burdi Mr. Scott Schlueter Argonne National Laboratory</p>

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.”

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

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
Ms. Chris Kubecka, Author, Security Researcher, Speaker, Adviser
Invited: Kari Bingen, Former Deputy Under SecDef for USD(I)

1400 – 1500 EST Plenary Speaker
Mr. Harrison Schramm, Group W
Dr. Scott Nestler, University of Notre Dame
"Impactful Analysis in the Era of COVID"

	<i>Multi-Domain and Analytics</i>	<i>Advances in Forecasting</i>
1500 – 1540 EST	<i>Spatio-Temporal Activity Modeling for All Battlespace Domains</i> Mr. Ian Featherstone, SAIC Forrest Hare Bill Mandrick	Dynamic and Approximate Dynamic Programming for Future Investment Assessments – Value Iteration and Reinforcement Learning Mr. Matthew Powers
1540 – 1620 EST	Predictive Analytics in the Naval Maritime Domain Dr. Bonnie Worth Johnson, Naval Postgraduate School	
1620 – 1700 EST	<i>Tactical Augmented Optimization*</i> Vincent Mendoza, Systecon LLC Bo Coleman, Systecon LLC	Leveraging Modeling and Simulation Tools to Support Performance Based Logistics Agreements Mr. Ken Rebstock, Systecon LLC

1700 – 1750 EST Plenary Speaker
Dr. Sam Savage, Executive Director, Probability Management
"Chancification: Taking Digital Reasoning Beyond the Flaw of Averages"

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

1800 – 1900 EST Birds of a Feather Social

**Denotes Visco prize competitor.*

Wednesday, 9 December

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

1010 – 1130 EST Keynote Speaker
Dr. Daniel J. Ragsdale, Principal Director for Cyber, Office of the Under Secretary of Defense (Research and Engineering)
"IT and OT Convergence: Caveat Emptor!"

	<i>Human Readiness and Behavior</i>	<i>Predicting Irregular Events</i>
1130 – 1210 EST	Applying the Human Readiness Levels Scale Dr. Judi E See, Sandia National Laboratories	New Adaptive Sampling Techniques to Optimally Augment Complex Simulation Models 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
1210 – 1250 EST	Influence Planning Product (IPP) Dr. Earnest Lloyd Dr. Neil Sanger KBSI	<i>Determination of Influential Factors on Roadway Bridge Sufficiency Using Inspection Data and LASSO: A Proof-of-Concept*</i> MAJ Jaison Desai, PhD, U.S. Army Cyber Command
1250 – 1330 EST	Modeling Effects of Non-Lethal Weapon Selection and Tactical Rules of Engagement on Crowds in Peace Operations Dr. Susan K. Aros, Dr. Anne Marie Baylouny Naval Postgraduate School	Risk Management for Irregular Events - Handling Unknown Unknowns, Black Swans, and Other Rare Hazards 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
“Social Cybersecurity”

	<i>Real Time Intelligence & Information Awareness</i>	<i>Measuring Resilience</i>
1500 – 1540 EST	Space / Solar Power Mr. Shawn Charchan Mr. Harrison Schramm Group W	Topological Data Analysis in Conjunction with Traditional Machine Learning Techniques to Predict Future MDAP PM Ratings Mr. Brian Joseph, OUSD(A&S)
1540 – 1620 EST	<i>Bandit Algorithms for Data-Driven Resolution/Field-of-View Tradeoffs in Multi-Mode Intelligence Collection*</i> Dr. Jefferson Huang Dr. Roberto Szechtman Naval Postgraduate School	Community Resilience Indicator Analysis 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 Speakers**
Introduction: Dr. Victoria Coleman, Director, Defense Advanced Research
Projects Agency
Greg Avicola: NOMARS
Mr. Doowan Lee
Andrew Nuss: SeaTrain
John Paschewitz: LogX
“DARPA Update”

	<i>Multi-Modal Human Stochasticity</i>	<i>Frontiers in Semantic and Blended Prediction Models</i>
1100 – 1140 EST	Migrant Models Integration Steven Jones, KaDSci, LLC Mr. Michael Resig, Innovative Decisions Inc.	Unleashing insights in unstructured textual data Andrew MacIsaac, Alteryx
1140 – 1220 EST	Visual Analytics for Finance and Human Capital Dr. Amber Sanders, Applied Research Associates, Inc. Dr. Michael R. Hieb, US Department of Homeland Security	Navigating Language Models with Synthetic Agents Dr. Philip Feldman
1220 – 1300 EST	Break & Visit Partner Exhibits	
1300 – 1340 EST	Multimodal Communication for Interactive Military Robots Dr. Sheuli Paul, Defence Research and Development Canada	Advanced Estimating Methodologies for Conceptual Stage Development Mr. Chuck Alexander, JHU-APL

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)