

<b>Sunday, 4 February 2018</b>	
1630 - 2030	Registration
<b>Monday, 5 February 2018</b>	
0700 - 0730	Poster set-up for Unclassified Poster Presenters
0730 - 0815	Speaker Meeting for Monday's Presenters
0730 - 0900	Attendee Continental Breakfast
0730 - 1630	Registration Open
1745 - 2030	Luau <i>(Pre-purchased tickets are required.)</i>
Track One	Track Two
<b>Electronic Warfare</b> Session Chair: Dr. Stephen Uftring, MIT Lincoln Laboratory Session Co-Chair: Dr. Stephen Woodall, IERUS Technologies, Inc.	<b>Hypersonics/Conventional Prompt Strike &amp; Hypersonic Threat Defense</b> Session Chair: Mr. Douglas Ousborne, Johns Hopkins Applied Physics Laboratory Session Co-Chair: Mr. Robert Strider, U.S. Army SMDC/ARSTRAT Technical Center
0830 - 0835	<b>Welcome &amp; Announcements</b>
0835 - 0855	<b>AFRL's Spectrum Warfare Technologies and Key Thrusts</b> Dr. Stewart DeVilbiss, Air Force Research Laboratory
0855 - 0915	<b>Electronic Warfare Support for Army Fires</b> Mr. Robert Kennedy, The MITRE Corporation
0915 - 0935	<b>Real-Time Planning of Offboard EA for Ship Defense</b> Ms. Sarah Lichtman, MIT Lincoln Laboratory
0935 - 0955	<b>Mitigation of Interference Between Softkill Weapons Utilized for Ship Defense</b> Mr. Andrew Dahlberg, MIT Lincoln Laboratory
0955 - 1015	<b>Real-Time Assessment of Softkill Weapons</b> Mr. David Kuchinsky, MIT Lincoln Laboratory
1015 - 1035	<b>Mid-Morning Break</b>
<b>Electronic Warfare, cont.</b>	<b>Rapid Transition of New Technology to the Warfighter</b> Session Chair: Mr. Mark Jones, Marine Corps Systems Command Session Co-Chair: Mr. Dave Cox, SMDC/ARSTRAT Future Warfare Center
1035 - 1040	<b>Announcements</b>
1040 - 1100	<b>Radar Signature Data for Soft-Kill Assessment Augmentation</b> Mr. Bryan Babcock, MIT Lincoln Laboratory
	<b>Session Introduction</b> <b>Blue Guardian Open Adaptable Architecture: A Novel Approach to Rapidly Field C4ISR</b> Capt Russell Shirey, Air Force Research Laboratory

1100 - 1120	<b>Multi-Platform Coalition Engagement Coordination for Layered Defense</b> Mr. Richard Renfro, Office of Naval Research	<b>Standoff High-Altitude Enhanced Reconnaissance Long-Range Operational Concept (SHERLOC)</b> Mr. Richard Van Hook, Air Force Research Laboratory
1120 - 1140	<b>Automated Vulnerability Testing of Electronic Warfare Systems</b> Ms. Elena Zorn, MIT Lincoln Laboratory	<b>Open System Architecture for Targeting Pod andIRST Integration on ANG F-15Cs</b> Mr. Joshua Hammond, Georgia Tech Research Institute
1140 - 1200	<b>Captive Carry Missile Seeker Testbed Development</b> Dr. Jonathan Morse, MIT Lincoln Laboratory	<b>Test Harness Architecture Development for SoS Assessments</b> Lt Andrew Tymchenko, Air Force Research Laboratory
1200 - 1220	<b>MALD-X: Forward Deployed "Spectrum Scouts" for Penetrating Strikes</b> Dr. Daniel Kilfoyle, Raytheon Company	<b>Hyper-Velocity Gun Weapon System (HGWS) Fire Control Support Experiments</b> Mr. Thomas Queeney, Northrop Grumman Corporation
1220 - 1320	<b>Attendee Networking Lunch</b> <i>(Included in Registration Fee)</i>	
	<b>Track One</b>	<b>Track Two</b>
	<b>Interoperability &amp; Network Enhanced Fire Control</b> Session Chair: Mr. Steven Buckley, Navy PEO IWS6 Session Co-Chair: Mr. Glenn McLeod, Lockheed Martin Corporation	<b>Utilizing Space as a Force Enhancer or Force Applier</b> Session Chair: Mr. Thomas Shew, Raytheon Missile Systems Session Co-Chair: Mr. John Warnke, Lockheed Martin Corporation
1320 - 1325	<b>Session Introduction</b>	<b>Session Introduction</b>
1325 - 1345	<b>Layup Shot: A Method to use Forward Deployed Tactical Radar to Provide Terminal Telemetry for Precision Weapons in GPS Denied Conditions</b> Mr. David Musgrave, U.S. Army ARDEC	<b>Space-Based Interceptor Assessment</b> Dr. Jonathan Gans, MIT Lincoln Laboratory
1345 - 1405	<b>The Army As Your Wingman: Fighter Aircraft Engagements Utilizing Army Integrated Battle Command System (IBCS) Integrated Fire Control Network (IFCN) Composite Tracks as Targeting Source</b> Mr. Douglas Blanchette, LSSI	<b>Defense Applications of Solar Cannons</b> Dr. Dan Brasoveanu, Systems Engineering Group Inc. of Telephonics
1405 - 1425	<b>Automated Track and Classification Fusion Prototype in Aegis for Passive Sensor Tracking and Engagement of Threats</b> Mr. Mike Fusco, Lockheed Martin RMS	<b>Tip of the Spear: Exploiting Space-Based Persistent Sensing to Strengthen Warfighter Target Cueing</b> Mr. Michael Greenhagen, Northrop Grumman Systems Corporation
1425 - 1445	<b>A Roadmap for Enhanced Connectivity Across All Domains</b> Dr. Susan Gottschlich, Raytheon Company	<b>Space Object Tumble Characterization using Diverse Radar Information</b> Dr. Tod Schuck, Lockheed Martin Corporation
1445 - 1505	<b>Afternoon Break</b>	
	<b>Track One</b>	<b>Track Two</b>
	<b>Interoperability &amp; Network Enhanced Fire Control, cont.</b>	<b>Machine Learning</b> Session Chair: Dr. Gary Somers, Raytheon Company Session Co-Chair: Mr. Ralph Tillinghast, U.S. Army ARDEC
1505 - 1510	<b>Announcements</b>	<b>Session Introduction</b>

1510 - 1530	<b>AEGIS Identification Friend or Foe (IFF) Mode 5 Acceleration - A Multi-Faceted Interoperability Challenge</b> Mrs. Denise Bagnall, Naval Surface Warfare Center	<b>Deep Cognitive Radar</b> Dr. Matthew Gombolay, MIT Lincoln Laboratory
1530 - 1550	<b>Improved Integration of IAMD and BMD Systems</b> Mr. Steve Faulise, Raytheon Company	<b>Big Data Machine Learning (ML) and Artificial Intelligence (AI) for Combat ID and Combat Systems – Design, Demonstrate and Proof of Concept: Discover Virtual Airways and Patterns using Automatic Dependent Surveillance – Broadcast (ADS-B) Data</b> Dr. Ying Zhao, Naval Postgraduate School
1550 - 1610	<b>Interoperability of Autonomous Systems in the C4ISR Architecture</b> Mrs. Raffianne Doyle, SPAWAR Pacific	<b>Reinforcement Learning for Modeling Large-Scale Cognitive Reasoning using the Naval Simulation System and Soar</b> Dr. Ying Zhao, Naval Postgraduate School
1610 - 1630	<b>Missions/Plans Workshop – Results for Integrated Planning Capabilities</b> Dr. Jeffrey Dunne, JHU Applied Physics Laboratory	<b>Deep Convolutional Recurrent Neural Network Signal Classification for Electronic Warfare</b> Mr. Sean Shepherd, Naval Air Warfare Center Weapons Division
1745 - 2030	<b>Luau</b> <i>Pre-purchased tickets are required.</i>	
<b>Tuesday, 6 February 2018</b>		
0730 - 0900	<b>Attendee Continental Breakfast</b> Sponsored by The Boeing Company	
0730 - 1730	<b>Registration Open</b>	
1230 - 1245	<b>Speaker Meeting for the Joint Integrated Fire Control Presenters</b>	
	<b>Plenary Session</b> Session Chair: Mr. James Cech, Georgia Tech Research Institute Session Co-Chair: Dr. Stephen Woodall, IERUS Technologies, Inc.	
0830 - 0840	<b>Opening Remarks, Security, &amp; Posting of the Colors</b> Mr. James Cech, Georgia Tech Research Institute	
0840 - 0845	<b>Plenary Welcome</b> By Moderator: Mr. Michael Roberts, SES, Director, Development and Integration, Program Executive Office, Integrated Warfare Systems Research, Office of Naval Research	
0845 - 0925	<b>Keynote: Rear Admiral Victorino "Vic" Mercado</b> Director of Maritime Operations, U.S. Pacific Fleet	
0925 - 0935	<b>David M. Altwegg Lifetime Achievement Award</b> Moderator: Dr. Gary Somers, Raytheon Company Presented by: Mr. William Bray, SES, Deputy Assistant Secretary of the Navy for Research, Development, Test & Evaluation and Mr. Michael Roberts, SES, Director, Development and Integration, Program Executive Office, Integrated Warfare Systems Accepted by: Rear Admiral Jon Hill, Deputy Director, Missile Defense Agency	

0935 - 1005	<b>Marine Corps Systems Command: Ms. Jeannette Evans-Morgis, SES</b> Deputy to the Commander, Systems Engineering & Acquisition Logistics
1005 - 1035	<b>Missile Defense Agency: Rear Admiral Jon Hill</b> Deputy Director, Missile Defense Agency
1035 - 1100	<b>Mid-Morning Break</b>
1100 - 1130	<b>Army: Brigadier General Stephen Michael</b> Deputy Chief of Staff for Operations, U.S. Army Pacific
1130 - 1200	<b>Air Force: Major General Russell Mack</b> Deputy Commander, Pacific Air Forces, Joint Base Pearl Harbor-Hickam and the Deputy Theater Air Component Commander to the Commander, U.S. Pacific Command
1200 - 1230	<b>Navy: Mr. Michael Roberts, SES</b> Director, Development and Integration, Program Executive Office, Integrated Warfare Systems
1230 - 1330	<b>Attendee Networking Lunch</b> Sponsored by Lockheed Martin Corporation <i>(Included in Registration Fee)</i>
	<b>Science &amp; Technology Round Table</b> Session Chair: Ms. Penny Moran, Naval Surface Warfare Center Dahlgren Division Session Co-Chair: Mr. James Cech, Georgia Tech Research Institute
1330 - 1335	<b>Session Introduction</b>
1335 - 1515	1335 - 1345 Moderator: Mr. William Bray, SES; Deputy Assistant Secretary of the Navy for Research, Development, Test & Evaluation 1345 - 1355 Dr. Azar Ali, SES; Pacific Air Forces Chief Scientist 1355 - 1405 Mr. John Stephansky; S&T Advisor, Commander, USMC Forces Pacific 1405 - 1415 Ms. Cynthia Holland; S&T Advisor to USPACOM 1415 - 1425 Mr. Roger Carter; S&T Air and Missile Advisor, NORAD & USNORTHCOM 1425 - 1435 Mr. Ross Wilhelm; S&T Advisor, PACFLT 1435 - 1515 Questions for the Panel
1515 - 1540	<b>Afternoon Break</b>
	<b>Joint Integrated Fire Control</b> Session Chair: Mr. James Cech, Georgia Tech Research Institute Session Co-Chair: Mr. Glenn McLeod, Lockheed Martin Corporation
1540 - 1550	<b>Session Introduction &amp; Early Career Award Presentations</b>
1550 - 1610	<b>Program Cooperation and Collaboration is Necessary to Build a Family of Systems</b> RADM (Ret) Jim Shannon, PricewaterhouseCoopers LLP (PwC)
1610 - 1630	<b>Emerging Threats in Northern PACOM</b> Ms. Jennifer Pels, SPAWAR Systems Center Pacific
1630 - 1650	<b>Modeling Strategic Deterrence</b> Mr. Bill Wilhelm, Lockheed Martin Corporation
1650 - 1710	<b>FIRECAPE</b> Mr. Richard Spadaccini, NAVAIR

1710 - 1730	<b>Leverage of Existing Systems for Rapid Capability Response</b> Mr. Thomas Wiley, Raytheon Integrated Defense Systems	
<b>Wednesday, 7 February 2018</b>		
0730 - 0815	<b>Speaker Meeting for Wednesday's Presenters</b> Sponsored by The Boeing Company	
0730 - 0900	<b>Attendee Continental Breakfast</b>	
0730 - 1730	<b>Registration Open</b>	
1830 - 2000	<b>Happy Hour Reception</b> <i>(Families &amp; Guests Invited)</i> Sponsored by Raytheon Company	
	<b>Track One</b>	<b>Track Two</b>
	<b>Combat ID</b> Session Chair: Mr. Roy Ballard, Air Force Research Laboratory Session Co-Chair: Mr. William Maselko, Northrop Grumman Mission Systems	<b>Advanced Technologies</b> Session Chair: Mr. John Robinson, U.S. Army SMDC/ARSTRAT Session Co-Chair: Dr. Joseph Deroba, U.S. Army RDECOM CERDEC I2WD and Mr. Thomas Shew, Raytheon Missile Systems
0830 - 0835	<b>Session Introduction</b>	<b>Session Introduction</b>
0835 - 0855	<b>Current Non-Cooperative Target Identification Efforts in AFRL Sensors Directorate</b> Mr. Marc Masquelier, Air Force Research Laboratory	<b>Advanced IRST Performance in Clutter</b> Dr. Sarah Willis, MIT Lincoln Laboratory
0855 - 0915	<b>Sustainable Bistatic SAR Target Identification</b> Dr. Ron Dilsavor, Systems & Technology Research	<b>Coupling Advanced Fire Control with Modernized Homing Guidance</b> Mr. John Shirley, U.S. Army AMRDEC
0915 - 0935	<b>PRIDE Bi-Static Data Collection</b> Mr. David Short, Northrop Grumman Mission Systems	<b>Tactical Range LADAR Vibrometer for Combat Identification</b> Mr. Brian Stadler, Air Force Research Laboratory
0935 - 0955	<b>Bistatic Combat Identification</b> Ms. Wendy Garber, Matrix Research, Inc.	<b>Automated Data Exploitation Algorithms for Enhanced Track Purity and Battlespace Awareness</b> Ms. Kayla Broyles, Modern Technology Solutions, Inc.
0955 - 1015	<b>Early Assessment of the Feasibility of Bistatic SAR ATR under the AFRL PRIDE Program</b> Dr. Jonathan Benson, Leidos	<b>Expanding the Battlespace Through Multi-Beam Communications Scheduling and Routing</b> Mr. Ryan Scheidt, JHU Applied Physics Laboratory
1015 - 1045	<b>Mid-Morning Break</b>	
	<b>Combat ID, cont.</b>	<b>Advanced Technologies, cont.</b>
1045 - 1050	<b>Announcements</b>	<b>Announcements</b>
1050 - 1110	<b>Shining Light into the Deep Learning Black Box for Ship Identification</b> Mr. Levi Roberts, Naval Air Warfare Center Weapons Division	<b>Video Synthetic Aperture Radar (ViSAR) RF Targeting in Weather</b> Mr. Vincent Terek, Air Force Research Laboratory
1110 - 1130	<b>Cognitive Processing Techniques in Support of Ballistic Missile Defense Automated Threat Characterization for Discrimination and Weapon Assignment</b> Mr. Stephen Hartley, MTSI	<b>Dynamic Multi-Modal Target Reacquisition</b> Dr. Gregory Arnold, Matrix Research, Inc.

1130 - 1150	<b>Investments, Applications, and Advances in Artificial Intelligence</b> Dr. Karla Priestersbach, Missile Defense Agency	<b>Stable Extended Target Kalman Filter</b> Dr. Zachary Chance, MIT Lincoln Laboratory
1150 - 1210	<b>Robustness of Combat ID Systems to Adversarial Perturbations</b> Ms. Olivia Brown, MIT Lincoln Laboratory	<b>Novel Methods for Tag, Track, and Locate</b> Mr. Michael Strauss, Creative Microsystems Corporation
1210 - 1230	<b>Learning to Learn Discrimination Models for an Evolving Threat</b> Mr. Justin Goodwin, MIT Lincoln Laboratory	<b>Enhancing Warfighter Capabilities through Improved CIWS EO/IR Sensors</b> Mr. Sean Keller, Raytheon Missile Systems
1230 - 1330	<b>Attendee Networking Lunch</b> <i>(Included in Registration Fee)</i>	
	<b>Track One</b>	<b>Track Two</b>
	<b>Combat ID, cont.</b>	<b>Kill Chain &amp; Distributed Lethality</b> Session Chair: Mr. Michael O'Gara, SPAWAR Systems Center, Pacific Session Co-Chair: Mr. Douglas Ousborne, Johns Hopkins Applied Physics Laboratory
1330 - 1335	<b>Announcements</b>	<b>Session Introduction</b>
1335 - 1355	<b>Video-SAR Fusion with ATI/DPCA</b> Mr. Matthew Shuman, Air Force Research Laboratory	<b>Naval Integrated Fire Control – Counter Air (NIFC-CA) Ongoing Activities and Challenges</b> Mr. Thomas Sokol, JHU Applied Physics Laboratory
1355 - 1415	<b>Best of Breed: SAR ATRbC</b> Mr. Matthew Reardon, Northrop Grumman Corporation	<b>IFC Resource Management to Improve Raid Capacity</b> Mr. Joseph Davis, JHU Applied Physics Laboratory
1415 - 1435	<b>Automatic Target Classification of Ground-Based Threats</b> Mr. James Bopp, United States Air Force	<b>Concepts for the Next Generation Surface Navy Integrated Warfare System</b> Mr. Scott Bewley, PEO IWS
1435 - 1455	<b>F-35 Combat ID Fusion Lessons Learned</b> Mr. Kent Engebretson, Lockheed Martin Aeronautics Company	<b>Enabling Battle Management via Machine Learning Models of the Human Pilot</b> Dr. Matthew Gombolay, MIT Lincoln Laboratory
1455 - 1515	<b>Extended-Range ASuW ATR Against Denied-Targets – Application of Synthetic Radar Data and Statistical Hypothesis Testing</b> Dr. John Jensen, Naval Surface Warfare Center Weapons Division	<b>Underwater Data Fusion in the Kill Chain</b> Mr. John Green, Naval Postgraduate School
1515 - 1545	<b>Afternoon Break</b>	
	<b>Unmanned &amp; Autonomous Systems (Sensors, Weapons &amp; Platforms, including Counter UAS)</b> Session Chair: Dr. Karla Priestersbach, Missile Defense Agency Session Co-Chair: Mr. Ralph Tillinghast, U.S. Army ARDEC	<b>Kill Chain &amp; Distributed Lethality, cont.</b>
1545 - 1550	<b>Session Introduction</b>	<b>Announcements</b>
1550 - 1610	<b>Autonomous Tactical ISR in Support of Fires</b> Dr. Thomas Walls, Naval Research Laboratory	<b>Radar Imaging with Unknown Motion</b> Dr. Matthew Ferrara, Matrix Research, Inc.
1610 - 1630	<b>Collaborative Operation in Denied Environment (CODE) Overview</b> Mr. William Koenig, Air Force Research Laboratory	<b>Kill Chain Analysis and Modeling</b> Mr. Andrew Berman, MIT Lincoln Laboratory

1630 - 1650	<b>Exploitation Capability Expectations for Autonomous Attributable Aircraft in A2AD Environments</b> Mr. John Werthmann, Leidos, Inc.	<b>"Most Advanced Yet Acceptable" Human-Machine Teaming</b> Ms. Rebecca Gassler, OPNAV N2N6 DWO
1650 - 1710	<b>Swarm of Autonomous Armed Drones</b> Mr. Ralph Tillinghast, U.S. Army ARDEC	<b>Intercept Signature Modeling for Kill Assessment</b> Dr. Jeff Taylor, JHU Applied Physics Laboratory
1710 - 1730	<b>Mobile Force Protection (MFP)</b> Mr. William Koenig, Air Force Research Laboratory	<b>Integrated Battle Management Architecture: Automated Decision Aids</b> Dr. Dana Sinno, MIT Lincoln Laboratory
1830 - 2000	<b>Happy Hour Reception</b> (Families & Guests Invited) Sponsored by Raytheon Company	

## Thursday, 8 February 2018

0730 - 0815	<b>Speaker Meeting for Thursday's Presenters</b>		
0730 - 0900	<b>Attendee Continental Breakfast</b>		
0730 - 1630	<b>Registration Open</b>		
	<b>Track One</b>	<b>Track Two</b>	<b>Track Three</b>
	<b>Live, Virtual, &amp; Constructive Modeling &amp; Simulation</b> Session Chair: Mr. David Cox, SMDC/ARSTRAT Future Warfare Center Session Co-Chair: Ms. Keri Bailey, Air Force Research Laboratory	<b>Fire Control Platform Capabilities</b> Session Chair: Dr. Stephen Woodall, IERUS Technologies, Inc. Session Co-Chair: Mr. Mark Longbrake, Black River Systems Company	<b>Directed Energy</b> Session Chair: Mr. John Warnke, Lockheed Martin Corporation Session Co-Chair: Mr. Thomas Shew, Raytheon Missile Systems
0830 - 0835	<b>Session Introduction</b>	<b>Session Introduction</b>	<b>Session Introduction</b>
0835 - 0855	<b>The Wrap-Around Artificial Intelligence Tool for Improved Testing (WAIT4IT)</b> Dr. Matthew Wagner and Dr. David Witman, JHU Applied Physics Laboratory	<b>Improved Navy Surface Target Engagement Capability through Rapid Development of Fire Control Software Enhancements</b> Mr. Tom Wimberly, NSWC Dahlgren Division	<b>The Integration of Directed Energy Weapons into Naval Air and Surface Defense</b> Mr. Justin Boyar, Raytheon Missile Systems
0855 - 0915	<b>High Fidelity Ground Based Air Surveillance Radar Simulation System</b> Mrs. Lynn Cistulli, MIT Lincoln Laboratory	<b>Extended Range Canon Artillery (ERCA) Fire Control</b> Mr. Manpreet Chopra, U.S. Army	<b>Real-Time Atmospheric Characterization for High Energy Laser Fire Control</b> Dr. Christopher Valenta, Georgia Tech Research Institute
0915 - 0935	<b>Multisystem Simulation with T<sup>2</sup>OURNAMINT</b> Mr. Jeffrey McHarg, MIT Lincoln Laboratory	<b>Integrated Fire Control - Test and Evaluation Capability</b> Mr. Kyle Hoyt, Raytheon Integrated Defense Systems	<b>Directed Energy Weapon Modeling, Simulation &amp; Analysis</b> Mr. James Sewell, Air Force Research Laboratory
0935 - 0955	<b>Overview and Evaluation of Embedded Training for Inflight Pilot Training</b> Ms. Kelly Giang, United States Air Force	<b>Mapping a Combat System: Using Model Based Systems Engineering to Analyze the Zumwalt Integrated Combat System</b> Mr. Erich Kreyling, JHU Applied Physics Laboratory	<b>Evaluation of Collateral Effects for Directed Energy Weapons in the Integrated Weapons Environment for Analysis</b> 2LT Jacob Pridotkas, Air Force Research Laboratory
0955 - 1015	<b>A Proposed Real-Time Sim-Over-Live Digital Simulator for Radar Hardware-in-the-Loop Testing</b> Dr. Erik Chowdhury, Raytheon Space and Airborne Systems	<b>Accuracy Testing and Modeling of Mortar System</b> Mr. Michael Wright, U.S. Army ARDEC	<b>Operationalizing Directed Energy Weapons for the US Navy. High Power Radio Frequency (HPRF) and High Energy Laser (HEL) Weapon Systems.</b> Mr. Christopher Behre, NSWC Dahlgren Division

<b>1015 - 1045</b>	<b>Mid-Morning Break</b>		
	<b>Weapons, Munitions, &amp; Engagement Alternatives</b> Session Chair: Ms. Keri Bailey, Air Force Research Laboratory Session Co-Chair: Mr. Robert Strider, U.S. Army SMDC/ARSTRAT Technical Center	<b>Electromagnetic Maneuver Warfare</b> Session Chair: Mr. Ron "Squeek" Henry, Northrop Grumman Mission Systems Session Co-Chair: Mr. Steven Buckley, Navy PEO IWS6	<b>Fire Control Platform Capabilities, cont.</b>
<b>1045 - 1050</b>	<b>Session Introduction</b>	<b>Session Introduction</b>	<b>Announcements</b>
<b>1050 - 1110</b>	<b>Effect of Fragment Mitigation on Collateral Damage Estimation</b> Mr. Brandon Taylor, Air Force Research Laboratory	<b>Real-Time Spectrum Operations</b> Mrs. Penny Moran, NSWC Dahlgren Division	<b>Directed Energy Operational Need and Integration into Aegis</b> Ms. Erika Parenti, Pugh Associates
<b>1110 - 1130</b>	<b>Integrated Weapons Environment for Analysis (IWEA) Kinetic Energy Weapon Effectiveness</b> Ms. Judith Sherrill, Air Force Research Laboratory	<b>Passively Derived EW Battlespace Awareness for Non-Lethal Fires Integration</b> Mr. Matthew Schumacher, NAWCWD Point Mugu	<b>Weapon Orientation for Weaponized Universal Lightweight Fire-Control (WULF)</b> Mr. Michael Wright, U.S. Army ARDEC
<b>1130 - 1150</b>	<b>Presentation Title to be Announced</b> Ms. Ellen MacLean, Black River Systems	<b>Robust Intelligent Control for Cognitive Electronic Warfare</b> Mr. Taylor Killian, MIT Lincoln Laboratory	<b>Teamed Targeting: Distributed Fire Control Systems and Programmable Munitions</b> Mr. Evan Finn, U.S. Army ARDEC
<b>1150 - 1210</b>	<b>Kinetic Energy Damage Model for Simulating Multi-Strike Attacks</b> Mr. Mark Green, Geomechanics Research and Analysis, Inc.	<b>Forward Deployed Collaborative Mission Rehearsal Virtual Reality System</b> Mr. Stephen McIver, NAWCWD Point Mugu	<b>Multi-Mission Automatic Targeting-Remote Operated Weapon Station (ATROWS)</b> Mr. Terence Rice, U.S. Army ARDEC
<b>1210 - 1230</b>	<b>Next Generation Fast-Running Progressive Damage (PD) Methodology</b> Mr. Randy Anderson, Cobia Research	<b>Framing the Electromagnetic Battle Management Problem</b> Mr. Marvin Potts, Air Force Research Laboratory	<b>Introduction of Dual Band Radar into CVN 78</b> Mr. Robert Ogden, Raytheon Company
<b>1230 - 1330</b>	<b>Attendee Networking Lunch</b> <i>(Included in Registration Fee)</i>		
	<b>Cyber Warfare (Threat, Exploitation, Assurance, Attack &amp; Defense)</b> Session Chair: Ms. Jennifer Splaingard, The Boeing Company Session Co-Chair: Ms. Janet Kasmer, The Boeing Company and Mr. Mike O'Gara, SPAWAR Systems Center, Pacific	<b>Theatre &amp; Homeland Joint Integrated Air &amp; Missile Defense</b> Session Chair: Mr. Stanley Schroeder, Lockheed Martin RMS Session Co-Chair: Dr. Stephen Uftring, MIT Lincoln Laboratory	
<b>1330 - 1335</b>	<b>Session Introduction</b>	<b>Session Introduction</b>	
<b>1335 - 1355</b>	<b>Building Resilient Software and Systems</b> Mr. Andy Farrar, OPNAV N2N6 Digital Warfare Office	<b>Warfighting Capability Assessment Processes and Development Priorities for Integrated Fire Control</b> Ms. Paige Rumberg, Naval Surface and Mine Warfighting Development Center	
<b>1355 - 1415</b>	<b>Protecting Aircraft and Avionics from Cyber Vulnerability</b> Dr. Nicholas Kovach, Air Force Research Laboratory	<b>Naval Force-Level Requirements for Integrated Air and Missile Defense --- What They Are, What They Mean for Required Force-Level Capabilities, Ideas on How We Get There, and the Cultural Changes in Warfighting That Will Be Required</b> Dr. Stephen Woodall, IERUS Technologies, Inc.	
<b>1415 - 1435</b>	<b>Ensuring the Integrity of Kill Chain Hardware to Strengthen the Warfighter</b> Mrs. Carolyn Sue Randles, USASMDC/ARSTRAT and Dr. John Wallrabenstein, Analog Devices	<b>Distributed Passive EO/IR Sensing for IAMD Threat Warning</b> Mr. John Stewart, Georgia Tech Research Institute	



1435 - 1455	<b>Immunizing and Re-Establishing a Trust-Based System for Cybersecurity through Resiliency</b> Mr. Adam Simonoff, NSWC Dahlgren Division	<b>Assessment of Escort Capacity for Fleet Defense</b> Mr. Adam Schnabel, MIT Lincoln Laboratory
1455 - 1515	<b>Using Molecular Communication Systems to Activate In Vivo Bio-Nanorobotic Malicious Code</b> Dr. Gregory Carpenter, GCE, LLC	<b>A Systems Approach to Battle Management Aids</b> Ms. Bonnie Johnson, Naval Postgraduate School
1515 - 1545	<b>Afternoon Break</b>	
	<b>Sensor Resource Management/Sensor &amp; Data Fusion</b> Session Chair: Mr. Mark Longbrake, Black River Systems Company Session Co-Chair: Mr. Stanley Schroeder, Lockheed Martin RMS	<b>Multi-Domain Command &amp; Control and Intelligence, Surveillance &amp; Reconnaissance</b> Session Chair: Mr. Glenn McLeod, Lockheed Martin Corporation Session Co-Chair: Mr. Ron "Squeek" Henry, Northrop Grumman Mission Systems
1545 - 1550	<b>Session Introduction</b>	<b>Session Introduction</b>
1550 - 1610	<b>Flight Testing Sensor Fusion - Best Practices and Lessons Learned</b> Mr. Paul Foxgrover, United States Air Force	<b>Common Planning Picture: The Future of Centralized Planning / Decentralized Execution</b> Mr. Todd Cloutier, Monterey Technologies, Inc.
1610 - 1630	<b>Multi-Platform/Multi-Spectral Sensor Fusion for Advanced Missile Defense</b> Mr. Dave Hurley, NSWC Dahlgren Division	<b>Adversarial Forecasting with AFRL's Multi-Domain Autonomous Sensing Architecture</b> Lt Timothy Machin, Air Force Research Laboratory
1630 - 1650	<b>Automated Track and Classification Fusion Prototype in Aegis</b> Mr. Chip Sinclair, Lockheed Martin RMS	<b>Next Generation AEW in Future Naval Missions in a Challenging Environment</b> Mr. Marc DeBlasio, Northrop Grumman Corporation
1650 - 1710	<b>Characterizing Target Classification Uncertainty Using Copulas</b> Dr. Christopher George, Boston Fusion Corporation	<b>DEVIANT Updates: Real-Time SAR, GMTI, Tracking, and ATR</b> Dr. Teresa Selee, Georgia Tech Research Institute
1710 - 1730	<b>Full Spectrum Sensor Resource Management (FSSRM) for Passive Situation Awareness and Fire Control</b> Dr. Thomas Frey and Mr. George Hellstern, Lockheed Martin Aeronautics	<b>Multi-Domain Data Fusion and Integration with Applicable Dataset</b> Mr. Shane Carleton, Georgia Tech Research Institute
1730	<b>Adjourn</b>	