

## MONDAY, MARCH 8, 2010

1700 - 1830 **Early Registration Check-in and Reception**  
Hyatt Mission Bay, Mission Foyer and Terrace

## TUESDAY, MARCH 9, 2010

0815 **Call to Order**  
Mr. Bruce Spear, SAIC; NDIA Undersea Warfare Division Chairman

0824 **Introduction of Speakers**  
Mr. Wayne Jakubowski, DRS Sonar Systems; Conference Chairman

0825 **Welcome**  
RADM Frank Drennan, USN  
Commander, Naval Mine and Anti-Submarine Warfare Command

0830 **VADM Richard Hunt, USN**  
Commander, THIRD Fleet

0900 **RADM Cecil Haney, USN**  
Director, Submarine Warfare Division, OPNAV N87

0930 **RADM Frank Drennan, USN**  
Commander, Naval Mine and Anti-Submarine Warfare Command

1000 **RADM Wendi Carpenter, USN**  
Commander, Navy Warfare Development Command

1030 Break

1100 **RADM Douglas McAneny, USN**  
Commander, Submarine Force, U.S. Pacific Fleet

1130 **Mr. Victor Gavin**  
Executive Director, Program Executive Office for Littoral and Mine Warfare

1200 **CAPT Todd DeGhetto, USN**  
Commander, NSW GRP 3

1230 **State of the Division**  
Mr. Bruce Spear, SAIC; NDIA Undersea Warfare Division Chairman

**Awards Presentation**

1300 Lunch

## TUESDAY, MARCH 9, 2010

1355      **Introduction of Speakers**  
Mr. Wayne Jakubowski, DRS Sonar Systems; Conference Chairman

1400      **Mr. William Bray**  
Director, Program Executive Office for Integrated Warfare Systems

1430      **RDML Thomas Wears, USN**  
Commander, Naval Undersea Warfare Center

1515      **RADM Jerry Ellis, USN (Ret)**  
Naval Postgraduate School

1545      Break

1615      **Mr. Mark Pfundstein**  
Assistant Director, Intelligence Support to Acquisition – Farragut Technical Analysis Center

1645      **RADM Michael Bachmann, USN**  
Commander, Space and Naval Warfare Systems Command

1715      **Concluding Remarks**  
Mr. Wayne Jakubowski, DRS Sonar Systems; Conference Chairman

1800      **Mongolian Barbecue**  
Hyatt Mission Bay, Mission Ballroom and Terrace

## TECHNICAL SESSIONS

### WEDNESDAY, MARCH 10 & THURSDAY, MARCH 11

Aviation USW  
C4I & Combat Systems  
Mine Warfare  
Undersea Sensors  
Undersea Vehicles  
*Sessions running concurrently*

#### Wednesday, March 10, 2010

0800 - 1200    Technical Sessions  
1200 - 1300    Lunch  
1330 - 1730    Technical Sessions

#### Thursday, March 11, 2010

0800 - 1200    Technical Sessions  
1200            Adjourn

# WEDNESDAY, MARCH 10

	Aviation USW <i>Nimitz Room</i>	C4I & Combat Systems <i>Harbor Lounge</i>	Mine Warfare <i>Pt. Loma Room</i>	Undersea Sensors <i>Skyline Room</i>	Undersea Warfare Vehicles <i>San Diego Room</i>
0800	<b>Call to Order</b> Mr. David Nelson The Boeing Company Technical Committee Chairman	<b>Call to Order</b> Mr. Paul Rosbolt Raytheon Company Technical Committee Chairman	<b>Call to Order</b> Mr. Eric Holmes Lockheed Martin Corporation Technical Committee Chairman	<b>Call to Order</b> Mr. Jose Rio Lockheed Martin Undersea Systems Technical Committee Chairman	<b>Call to Order</b> CAPT Rich Tailipsky, USN (Ret) SEA CORP Technical Committee Chairman
0805	<b>PEO(A)/PMA 264 Overview</b> CAPT Luis Ramirez, USN Program Manager PMA 264	<b>State of ASW Acquisition</b> CAPT Charles Davis, USN PEO IWS 5 Undersea Systems	<b>Mine Warfare Program Update</b> Ms. Donna Carson-Jelley PMS 495 Mine Warfare Program Office, Program Manager	<b>Overview of PEO IWS-5A Test Efforts</b> Ms. Meg Stout PEO IWS 5A	<b>Undersea Weapons Programs</b> CAPT Thomas Kearney, USN Program Manager for Undersea Weapons, PMS 404
0835	<b>MPRA Advanced Development &amp; P3/P8 Status</b> Mr. Tom Kreppel Technical Director, PMA 290	<b>An Overview of PMS 435 Electronic Warfare (EW) Programs and Projects to focus on a Revised Modernization Approach, and the Development of an EW Roadmap for POM 14</b> CAPT Christopher Scofield, USN NAVSEA	<b>Naval Oceanographic MIW Center, Operational AUVs in MIW</b> CAPT Paul Oosterling, USN Naval Oceanography Operations Command	<b>An Overview of the Advanced Development Office</b> Mr. Joe Johnson PEO IWS 5A	<b>Perspectives on Undersea Stealth Weapons: Potential Military Value and Technological Challenges</b> Dr. Sid Wax NUWC Div., Newport
0905	<b>MPRA Family of Systems and Community of Interest</b> CDR Joseph Willette, USN PMA 290	<b>ASW Systems Engineering Status and the Common ASW Data Model</b> Ms. Colleen Cannon PEO IWS 5SE	<b>MCM Systems for Littoral Combat Ship Advanced Flight Mission Package Program: Update</b> Dr. James Taylor NSWC Panama City Division	<b>PEO IWS 5A Advanced Development Recent/Pending Focus Areas</b> Mr. Peter Scala PEO IWS 5A1	<b>Standard Report of Torpedo Performance</b> Mr. William Lonardo, Mr. Winston Spencer, Mr. John Patton, and Mr. Russ Evans, NUWC Div., Newport
0935	<b>Multi-Mission Helo Update</b> CDR Rob Byers, USN PMA 299	<b>APB Technologies to Support Multi-Mission Submarine Maritime Theater Operations</b> Mr. George Banta, Sonalysys, Inc.; Ms. Karla Roncal, Mr. Thomas Roy, and Dr. John Stapleton, JHU/APL	<b>Advanced Sonar Technology for High Clearance Rate MCM</b> Dr. Jason Stack, Mr. Bob Manning, and Dr. Dan Sternlicht, Office of Naval Research	<b>State of PEO IWS 5 and ASW Acquisition</b> CAPT Charles Davis, USN PEO IWS 5	<b>Vertical Launch Anti-Submarine (VLA) Missile</b> Mr. Steven Firestone Lockheed Martin MS2
1005	<b>Break</b>	<b>Break</b>	<b>Break</b>	<b>Break</b>	<b>Break</b>
1030	<b>P3 Air Crew Tactical Team Trainer (PACT 3)</b> LCDR Mattingly and Dr. Carrie Root PMA 290	<b>PEO IWS 5A Advanced Development Recent/Pending Focus Areas</b> Mr. Peter Scala PEO IWS 5A1	<b>Low Frequency Broadband MCM and ASW</b> Dr. Brian Houston Naval Research Laboratory	<b>ASW Multi-static Active Interoperability Simulation (AMAIS) Model Evaluation</b> Mr. John Curtis and Mr. Tim Ha- neisch, PMS 485E	<b>Alternative Ordnance Initiation Technologies</b> Mr. Joseph Carvalho and Mr. Wm. David Fahey Pacific Scientific EMC
1100	<b>Interoperable Multistatic Active Working Group Status</b> Mr. Doug Backes Air 4.5 S&T Integration	<b>Open Architecture Software and Common Standards Development for Underwater MCM Systems</b> Mr. Ryan Davis and Mr. Todd Webber, SPAWAR Systems Center Pacific	<b>SSAM Technology, FY09 LOE Results and SSAM II Preview</b> Dr. James Prater, Mr. Jose Fernandez, Dr. Daniel Sternlicht, and Dr. Jason Stack, NSWC Panama City	<b>The Naval Oceanography ASW Reach Back Cell</b> Mr. Melvin Wagstaff and LCDR Bruce Beam, USN, Naval Oceanographic Office	<b>Safe and Arm and Advanced Fuzing Design for Undersea Weapons</b> Mr. Lawrence Fan NSWC Indian Head Division

# WEDNESDAY, MARCH 10

	Aviation USW <i>Nimitz Room</i>	C4I & Combat Systems <i>Harbor Lounge</i>	Mine Warfare <i>Pt. Loma Room</i>	Undersea Sensors <i>Skyline Room</i>	Undersea Warfare Vehicles <i>San Diego Room</i>
1130	<b>Multistatic Data Set Analysis with Emphasis on Specular Reflections</b> <i>Mr. James Nash, Dr. Chris Walters, and Mr. Doug Grimmerett The Boeing Company</i>	Break	<b>High-Definition, Synthetic Aperture Sonar Applied to Seabed Mapping</b> <i>Mr. Robert Stillwell Applied Signal Technology, Inc.</i>	<b>AN/SQQ-89A(V)15 Undersea Warfare System Advanced Capabilities Production, Certification, Installation and Future</b> <i>Mr. James Day, PEO IWS 5</i>	<b>The Evolution of Unmanned Undersea Vehicle Systems is Revolutionizing Operations for Neutralizing Underwater Explosive Threats</b> <i>Mr. Todd Webber, PEO LMW / PMS 408</i>
1200	<b>Technical Committee Working Lunch</b>	<b>Technical Committee Working Lunch</b>	<b>Technical Committee Working Lunch</b>	<b>Technical Committee Working Lunch</b>	<b>Technical Committee Working Lunch</b> <i>CAPT Rich Talipsky, USN (Ret) SEA CORP Technical Committee Chairman</i>
1330	<b>Call to Order</b> <i>Mr. David Nelson The Boeing Company Technical Committee Chairman</i>	<b>Call to Order</b> <i>Mr. Paul Rosbalt RaytheonCompany Technical Committee Chairman</i>	<b>Call to Order</b> <i>Mr. Eric Holmes Lockheed Martin Corporation Technical Committee Chairman</i>	<b>Call to Order</b> <i>Mr. Jose Rio Lockheed Martin Undersea Systems Technical Committee Chairman</i>	<b>Call to Order</b> <i>Mr. Tom Sherman JHU/APL Technical Committee Deputy Chairman</i>
1335	<b>EXSPECT: A Specular Prediction Tool for Distributed Multistatic Active Sonar</b> <i>Mr. Doug Grimmerett, Mr. Shelby Sulivan, Mr. Chris Walter, and Mr. Jim Nash SPAWAR Systems Center Pacific</i>	<b>Above Surface Situational Awareness from Speed and Depth: Operational Advantages and Ship's Safety Considerations</b> <i>CAPT James Patton, Jr., USN (Ret) Submarine Tactics &amp; Technology, Inc.</i>	<b>Advanced Unmanned Weapon Options for Countering Maritime Threats</b> <i>Mr. Dave Everhart, NSWC Pamana City Division</i>	<b>Automated Contact Classification to Passive Sonar Situational Awareness</b> <i>Mr. Robin Shellman and Dr. Kevin Gormally, JHU/APL</i>	<b>Unmanned Maritime Systems Programs</b> <i>Mr. Christopher Egan and Mr. James Griffin NUWC Div., Newport</i>
1405	<b>MPRA Acoustic Commonality</b> <i>Mr. Michael Koob and Ms. Becky Darrah Lockheed Martin</i>	<b>OceanLink - Advanced Underwater Communications at Speed and Depth</b> <i>Mr. Greg Hays and Dr. Leo Volfonson Torrey Pines Logic</i>	<b>Remote Command and Control for Underwater Mines</b> <i>Mr. Jeff Feldstein and Mr. Tony Matthews NSWC Pamana City Division</i>	<b>Feature Extraction of SONAR Grams</b> <i>Mr. Steven Foerster Lockheed Martin</i>	<b>Systems Engineering in the Complex Undersea Warfare Acquisition Environment</b> <i>Mr. Howard Sterling and Mr. Jack Clifford, Office of Secretary of Defense/ Systems Engineering Directorate</i>
1435	<b>Development of Interim PFA Tools for Multistatic ASW</b> <i>Mr. Robert Kanyuck Raytheon/BBN Technologies</i>	<b>Sonobuoy Based A2RF Communications Gateway</b> <i>Dr. David Powell Sparton Electronics Florida, Inc (ERAPSCO Partner)</i>	<b>Smart Minefield Communications, Target Discrimination, and Remote Control</b> <i>Mr. Anthony Matthews and Mr. Dave DeMartino, ITT</i>	<b>Seafloor Clutter Simulation for Mid-Frequency Sonar Synthetic Training</b> <i>Dr. Shawn Johnson, Dr. Bruce Newhall, and Dr. Fred Newman, JHU/APL</i>	<b>Slocum Glider Support for Fifth Fleet Operations</b> <i>Dr. Kevin Mahoney and Mr. Nathan Allen Naval Oceanographic Office</i>
1505	<b>Break</b>	<b>Break</b>	<b>Break</b>	<b>Break</b>	<b>Break</b>

# WEDNESDAY, MARCH 10

1530	<p><b>Aviation USW</b> <i>Nimitz Room</i></p> <p><b>Optimizing Electro-Optic and EO/IR Systems for Net Centric Warfare</b> <i>Dr. V. Mike Contarino, Radiance Technologies and Dr. Jennifer Prentice, NAVAIR PMA 264</i></p>	<p><b>C4I &amp; Combat Systems</b> <i>Harbor Lounge</i></p> <p><b>JCDX (MLS) Data Exchange Server</b> <i>Mr. Mark Gabriels and Mr. Jim Churchill NAVSEA PMC 485T2</i></p>	<p><b>Mine Warfare</b> <i>Pt. Loma Room</i></p> <p><b>Standoff Delivery of Underwater Weapons</b> <i>Mr. Jeff Feldstein NSWC Panama City Division</i></p>	<p><b>Undersea Sensors</b> <i>Skyline Room</i></p> <p><b>Magnetic Ambiguity Function Analysis</b> <i>Dr. Rockie Ricks and Ms. Jill Bekkedahl, SPAWAR SCP</i></p>	<p><b>Undersea Warfare Vehicles</b> <i>San Diego Room</i></p> <p><b>Pectoral Fin Propelled UUV for Shallow Water Missions</b> <i>Mr. Jason Geder, Dr. Ravi Ramamurti, Dr. Banahalli Ratna, and Dr. William Sandberg, Naval Research Laboratory</i></p>
1600	<p><b>Featureless Classification for Impulsive Active Sonar Systems</b> <i>Ms. Mary Soules, Dr. Joshua Broadwater, and Mr. Robert Schultz, JHU/APL</i></p>	<p><b>Commercial Enterprise Architectures and Their Adaptation for Real-Time, System-of-Systems Distribution across the Global Information Grid (GIG) - Forward to the Past</b> <i>Mr. Gary Sikora, Mr. Matthew Fisher, Mr. Tom Burns, Progeny Systems</i></p>	<p><b>Update of U.S. Navy Efforts in Mine Neutralization Vehicle Technology</b> <i>CAPT David Knapp, USN NAVSEA Program Manager for Undersea Defensive Systems, PMS 415</i></p>	<p><b>Multi-Band and Adaptive Sonar Signal Processing for Increased Torpedo Effectiveness</b> <i>Mr. Adam Mirkin, Mr. Michael Medeiros, Ms. Lanie Williams, Mr. Jeff Magalhaes and Mr. Donald McDonald, NUWC Div., Newport</i></p>	<p><b>Undersea Defensive Programs</b> <i>CAPT David Knapp, USN NAVSEA Program Manager for Undersea Defensive Systems, PMS 415</i></p>
1630	<p><b>2009-2 NASWE E-field Test Results</b> <i>Dr. Michael Larsen and Dr. Jeff Ridgway Information Systems Labs</i></p>	<p><b>An Approach for Establishing and Managing Strike and Battle Group Compositions across Disconnected, Intermittent and Limited (DIL) Naval Networks</b> <i>Mr. Matthew Fisher, Mr. Tom Burns, and Mr. Nik Keapporth Progeny Systems</i></p>	<p><b>Continually Adaptive Search (CAS) Algorithms for Autonomous Undersea Vehicles Minehunting Operations</b> <i>Dr. Charles Ciary and Mr. William Zurawski, Raytheon</i></p>	<p><b>Field Level Automation Strategies in Multistatic Search mMissions</b> <i>Mr. Drake Guenther, Mr. Marc Robinson, and Mr. Laurence Riddle Signal Systems Corporation</i></p>	<p><b>Advanced Unmanned Weapon Options for Countering Maritime Threats</b> <i>Mr. David Everhart and Ms. Sudha Reese NSWC Panama City Division</i></p>
1700	<p><b>Multi-Model E-field/Acoustic Sensors for Tactical Marine Surveillance</b> <i>Mr. Michael Palmieri, Dr. Jeff Ridgway, and Dr. Michael Larsen, Applied Physical Sciences</i></p>	<p><b>Adjoirn</b></p>	<p><b>Alternative Platform Testing for OAMCM Subsystems</b> <i>Mr. John Schubert Lockheed Martin</i></p>	<p><b>Wireless Underwater Magnetometer Sensor Field</b> <i>Mr. Mihajlo Tomic and Mr. Peter Sullivan SSC Pacific</i></p>	<p><b>Large Diameter Payload Launch and Recovery Capsule</b> <i>Mr. Michael Gradziel Northrop Grumman Marine Systems</i></p>
1730	<p><b>Adjoirn</b></p>	<p><b>Adjoirn</b></p>	<p><b>Adjoirn</b></p>	<p><b>Adjoirn</b></p>	<p><b>Adjoirn</b></p>

# THURSDAY, MARCH 11

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0800	<b>Call to Order</b> <i>Mr. David Nelson The Boeing Company Technical Committee Chairman</i>	<b>Call to Order</b> <i>Mr. Paul Rosbolt Raytheon Company Technical Committee Chairman</i>	<b>Call to Order</b> <i>Mr. Eric Holmes Lockheed Martin Technical Committee Chairman</i>	<b>Call to Order</b> <i>Mr. Jose Rio Lockheed Martin Undersea Systems Technical Committee Chairman</i>	<b>Call to Order</b> <i>Dr. Paul Temple NUWC Div., Newport</i>
0805	<b>Sonobuoy Positioning Improvement using 2-way Ranging</b> <i>Mr. Raymond Nupp and Mr. Howard Ebersman, Ultra Electronics Flightline Systems</i>	<b>ASW Community of Interest Track Data Conversion Suite</b> <i>Mr. Don Brutzman and Mr. Curtis Blais, Naval Postgraduate School</i>	<b>Underwater Geographic Information System</b> <i>Mr. Jeff Smith, Bluefin Robotics</i>	<b>Next-Generation Acoustic Sensor Digitization</b> <i>Dr. Newell Stacey, Mr. Ben Hillery, Mr. Glenn Courtright, and Mr. Gordon Cook, ITT Acoustic Systems</i>	<b>Mission Planning to Ensure Successful UUV Offshore Operations</b> <i>Mr. James Griffin, NUWC Div., Newport, Autonomous and Defensive Systems Department Head</i>
0835	<b>Enhanced Maritime Target Detection (EMTD)</b> <i>Mr. Brian Lamonde, Mr. Mark Pauli, and Mr. Jason Blind Applied Signal Technology</i>	<b>Value-added of Net-Centric Anti-Submarine Warfare (ASW) Cross-Platform Fusion: Undersea Warfare Decision Support System (USW-DSS) Algorithms Development and Processing</b> <i>Dr. W. Reynolds Monach and Dr. Chidambar Ganesh, Daniel H. Wagner Associates, Inc.</i>	<b>Operator-in-the-Loop (Semi-Autonomous) Neutralization of Underwater Mines in Shallow Water Using Expendable UUVs</b> <i>Mr. Jon Wood, SeeByte, Inc.</i>	<b>Navigation Sonar System (NSS) Improvement for Ohio Replacement SSBN Battle Stations Missile (BSM) Timeline</b> <i>Mr. Anthony Scoca, Lockheed Martin and Mr. Edward Massara, Strategic Systems Programs, U.S. Navy</i>	<b>Operationalizing Unmanned Undersea Vehicles (UUVs) from Submarines - A Way Ahead</b> <i>CAPT Lorin Selby, USN and Mr. Dub Tullar, NAVSEA PMS 394</i>
0905	<b>Reliable Packet Communications for Distributed Netted Sensors and Maritime Patrol Aircraft</b> <i>Dr. Ronald Richter Ultra Electronics USSI</i>	<b>ASW Netted Sensor Track Evaluation and Tactical Fusion from SHAREM 159: Undersea Warfare Devision Support System (USW-DSS) Algorithms Processing</b> <i>Dr. Chidambar Ganesh and Mr. Allan Fong, NUWC</i>	<b>IPUMA's Participation in Talisman-Saber 09</b> <i>Dr. Charles Loeffler and Mr. Rick Bailey, ARL University of Texas</i>	<b>Status on the Relay Comms Buoy for RAP VLA</b> <i>CDR Alan Boyd, USN PEO IWS 5A</i>	<b>Operational Effectiveness Improvements with UUV/RMMV Collaboration</b> <i>Mr. Lou Larkin and Mr. Jorge Diaz, Lockheed Martin MS 2</i>
0935	<b>Performance Study for Distributed Networked Sensors using VHF line of Sight Communications</b> <i>Mr. Howard Ebersman and Mr. Raymond Nupp, Ultra Electronics Flightline Systems</i>	<b>Command and Control Engineering Measurement Program (C2EMP): Initial C2 Survey Findings from SHAREM 163</b> <i>Ms. Megan Moudalexis, Dr. Jennifer Ockerman, Mr. Arthru Croucher, and Ms. Margaret Dean, JHU/APL</i>	<b>Platform Navigation Demonstrations using the Augmented Reality Visualization of the Common Operational Picture System</b> <i>Dr. Alan Evans, Mr. Kennard Watson, and Mr. James Cunningham, NSWC Dahlgren Division</i>	<b>DWADS (Deep Water Active Distributed System)</b> <i>Mr. Herbert Shauger Sparton Electronics</i>	<b>Are Large Lithium Ion Batteries More Dangerous than Warheads or Reactors?</b> <i>Mr. Andrew Resnick Phoenix International</i>
1005	<b>Break</b>	<b>Break</b>	<b>Break</b>	<b>Break</b>	<b>Break</b>

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1030	<b>The Multifunction Active Coherent (MAC) Program</b> <i>Mr. David Jones, Lockheed Martin and Mr. Rick Fillhart, PMA 264</i>	<b>USW-DSS Curriculum Development Lessons Learned: Collaborating for Increased Efficiency</b> <i>Ms. Amy Bayes JHU APL</i>	<b>Precision-Guided Weapons for Use in Mine Clearance in the Very Shallow Water Region</b> <i>Mr. Kennard Watson, Mr. Jon Bruns, Mr. Michael Powell, and Mr. Jack Goeller NSWC Panama City Division</i>	<b>A Low Probability of Detection Underwater Acoustic Communication Scheme for the Shallow Water Acoustic Channel</b> <i>Dr. Paul Gendron SSC Pacific</i>	<b>Recapitalizing SSGN SOF Capability with an Attack Submarine Underwater Vehicle Complex</b> <i>Mr. Steve Menno General Dynamics Electric Boat</i>
1100	<b>AN/SSQ-125 High Power, Coherent Source Status</b> <i>Mr. Ray Deno Ultra Electronics USSI</i>	<b>Finding NEMO and Anti Piracy Using the AquaQuIPS Data Fusion Multi-INT Processor</b> <i>Dr. James Wilson and Mr. Robert Prater, Qinetiq North America</i>	<b>Maritime Security Explosive Ordnance Disposal Portable Diving System (DSAS)</b> <i>Mr. Enrique Lenz MobilVox, Inc.</i>	<b>Low Cost 360 Degree Multi-Spectral Sensor Technology for SOF/IW Off Board Vehicles</b> <i>Mr. Peter Kuzdeba, Kollmorgen Electro-Optical</i>	<b>Using Submarine Rescue Exercises to Improve Security Cooperations</b> <i>CAPT David Osen, USN NR SUBDEVRON 5 HQ DET</i>
1130	<b>Test Results for Underwater Launched ScanEagle Compressed Carriage UAV</b> <i>Mr. Chai Tea, Northrop Grumman Marine Systems, and Mr. William Laingen, The Boeing Company</i>	<b>Adjourn</b>	<b>Global Network-Centric Mine Warfare Hub</b> <i>Mr. William Reese and Ms. Sudha Reese NSWC Panama City Division</i>	<b>Increasing the Capability of Measuring Bioluminescence at Depth for Naval Applications</b> <i>Mr. Raymond Pluhar, NAVOCEANO</i>	<b>Autonomous Method for Clandestine Cable Burial</b> <i>Mr. Steve Whiteside SPAWAR Systems Center Pacific</i>
1200	<b>Adjourn</b>		<b>Adjourn</b>	<b>Adjourn</b>	<b>Adjourn</b>