Agenda

MONDAY, SEPTEMBER 18

3:00 – 7:00 pm Registration
MYSTIC MARRIOTT HOTEL & SPA - MYSTIC FOYER

5:00 – 6:30 pm Networking Reception
MYSTIC MARRIOTT HOTEL & SPA - MYSTIC BALLROOM

TUESDAY, SEPTEMBER 19

7:00 am – 5:00 pm Registration
DEALEY CENTER AUDITORIUM

7:00 – 8:00 am Networking Breakfast
OUTSIDE PLAZA

8:00 – 8:15 am Welcome and Opening Remarks
DEALEY CENTER AUDITORIUM

8:15 – 8:45 am Presentation
DEALEY CENTER AUDITORIUM
ADM Frank Caldwell, USN
Director, Naval Nuclear Propulsion Program

8:45 – 9:15 am Presentation
DEALEY CENTER AUDITORIUM
VADM William Houston, USN
Commander, Naval Submarine Forces

9:15 – 9:45 am Presentation
DEALEY CENTER AUDITORIUM
VADM Richard Correll, USN
Deputy Commander, U.S. Strategic Command

9:45 – 10:15 am Networking Break
OUTSIDE PLAZA

10:15 – 10:45 am Presentation
DEALEY CENTER AUDITORIUM
CAPT Drew Miller, USN
Commander, Undersea Warfighting Development Center

10:45 – 11:15 am Presentation
DEALEY CENTER AUDITORIUM
Scott Bray
Deputy Director, Naval Intelligence, (OPNAV N2N6C)

11:15 – 11:45 am Presentation
DEALEY CENTER AUDITORIUM
Dr. Martin Irvine
Executive Director, Naval Surface Warfare Center and Naval Undersea Warfare Center

11:45 am – 12:00 pm Awards Ceremony
DEALEY CENTER AUDITORIUM
Pierre Corriveau
Awards Chair, Undersea Warfare Division, NDIA

12:00 – 1:15 pm Networking Lunch
BASE GYMNASIUM

1:15 – 1:45 pm Presentation
DEALEY CENTER AUDITORIUM
RADM Scott Pappano, USN
Program Executive Officer, Strategic Submarines

1:45 – 2:15 pm Presentation
DEALEY CENTER AUDITORIUM
Stefanie Link
Executive Director, In-service Submarines Program Executive Office, Attack Submarines (PEO SSN)
2:15 – 2:45 pm
**Presentation**
DEALEY CENTER AUDITORIUM
CAPT Todd Weeks, USN
Program Executive Officer, Undersea Warfare Systems

2:45 – 3:15 pm
**Networking Break**
OUTSIDE PLAZA

3:15 – 3:45 pm
**Presentation**
DEALEY CENTER AUDITORIUM
Dr. Matthew Sermon
Executive Director, Program Executive Office Strategic Submarines
Whitney Jones
Director, Submarine Industrial Base Program Executive Office Strategic Submarines (PEO SSBN)

3:45 – 4:15 pm
**Presentation**
DEALEY CENTER AUDITORIUM
Rob McHenry
Deputy Director, Defense Advanced Research Projects Agency

4:15 – 4:45 pm
**Presentation**
DEALEY CENTER AUDITORIUM
RDML Mark Behning, USN
Director, Undersea Warfare Division, Office of the Chief of Naval Operations (N97)

4:45 – 4:50 pm
**Closing Remarks**
DEALEY CENTER AUDITORIUM
CAPT Eric Irwin, USN (Ret)
Chairman, Undersea Warfare Division Fall Conference
Warfare Analysis Program Lead, General Dynamics Electric Boat Corporation

6:00 – 7:00 pm
**Networking Reception**
NORTH LAKE
Ticket Required

7:00 – 9:00 pm
**Networking Clambake**
NORTH LAKE
Ticket Required
## Technical Sessions

### WEDNESDAY, SEPTEMBER 20

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tr>
<td>7:00 am</td>
<td><strong>Registration</strong>&lt;br&gt;DEALEY CENTER AUDITORIUM</td>
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<tr>
<td>7:00 am</td>
<td><strong>Networking Breakfast</strong>&lt;br&gt;DEALEY CENTER OUTSIDE PLAZA</td>
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### Aviation Systems
- **Glen Sharpe**, Session Chair

### Mine Warfare
- **Kevin Hagan**, Session Chair

### Undersea Sensors
- **Joe Cuschieri**, Session Chair

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<tr>
<th>Building</th>
<th>Sessions</th>
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<tr>
<td>83 Room 318</td>
<td>- Development of New Underwater Explosives and Warheads&lt;br&gt;Daniela Wagus, ONR&lt;br&gt;George McDaniel, Naval Surface Warfare Center Indian Head Division</td>
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<tr>
<td>84 Room 106</td>
<td>- DARPA Kraken Program Update&lt;br&gt;Katherine Woolfe, DARPA&lt;br&gt;Michael Ott, DARPA</td>
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<td>Dealy Theater</td>
<td>- NAVAIR PED-Air ASW Programs&lt;br&gt;Shawn Slade, NAVAIR</td>
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<td>8:00 am</td>
<td>- Deep Neutralization&lt;br&gt;Emily Medina, ONR</td>
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<td>8:00 am</td>
<td>- PMS 485 Deployable Surveillance Systems Update&lt;br&gt;Susan LaThomb&lt;br&gt;PMS 485 Deployable Surveillance Systems</td>
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<td>8:30 am</td>
<td>- Mission-Level Modeling &amp; Simulation of Mining Operations&lt;br&gt;Nicholas Evans, Boeing&lt;br&gt;Caroline Stocking, Boeing</td>
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<td>8:30 am</td>
<td>- DARPA Hunter Program Update&lt;br&gt;Katherine Woolfe, DARPA&lt;br&gt;David Pfundstein, DARPA</td>
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<td>9:00 am</td>
<td>- IWS5 Sensor Systems Update&lt;br&gt;George Arnold, IWS 5</td>
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<td>9:00 am</td>
<td>- High Power Microwave (HPM) Systems&lt;br&gt;Nishita Merchandani, Symatec&lt;br&gt;William Craig, NAVSEA</td>
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### Undersea Vehicles
- **Chuck Fralick**, Session Chair

### Undersea Vehicles
- **Dr. Brian McKeon**, Session Chair

### Combat Systems & Warfighter Performance
- **CAPT Paul Rosbolt**, USN (Ret), Session Chair

### C4I
- **Dr. Robert Zamich**, Session Chair

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<tr>
<td>83 Room 319</td>
<td>- DARPA Manta Ray Program&lt;br&gt;Kyle Woemer, DARPA</td>
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<td>8:00 am</td>
<td>- Unmanned Maritime Systems (PMS 406) Program Update&lt;br&gt;Ojueo Searles&lt;br&gt;PEO USC / PMS 406</td>
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<td>8:00 am</td>
<td>- PMS 415 Update&lt;br&gt;Gene Severtson, NAVSEA&lt;br&gt;Alex Dube, NAVSEA</td>
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<td>8:30 am</td>
<td>- Virtual Undersea Battlespace: Enabling the SUBFOR Wargaming and Experimentation Center (SFWEC)&lt;br&gt;Michael Pelczarski, NAVSEA&lt;br&gt;Andrew Dominijanni, MITRE</td>
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<td>- DARPA Hunter Program Update&lt;br&gt;Katherine Woolfe, DARPA&lt;br&gt;David Pfundstein, DARPA</td>
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<td>9:00 am</td>
<td>- Target Strength Signature Comparisons&lt;br&gt;Thomas Bowling&lt;br&gt;NSWC Carderock Division&lt;br&gt;Saliou Telly, NSWC Carderock Division</td>
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<td>9:00 am</td>
<td>- High Power Microwave (HPM) Systems&lt;br&gt;Nishita Merchandani, Symatec&lt;br&gt;William Craig, NAVSEA</td>
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<td>9:00 am</td>
<td>- Undersea Constellation Communications Architecture Study&lt;br&gt;William Craig, NAVSEA</td>
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<td>9:30 am</td>
<td>Navy STP: Transition Innovative Technology to Deliver Warfighting Capabilities</td>
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<td>MCM Capabilities and Vectors for Future Development</td>
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<td>IUSS Mobile Surveillance System Future Capabilities and Opportunities</td>
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<td>10:00 am</td>
<td>Networking Break</td>
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<td>DEALEY CENTER OUTSIDE PLAZA</td>
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<td>11:00 am</td>
<td>Recent Breakthroughs in Air ASW Acoustic Automation</td>
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<td>Making Naval Mining Improvements a Reality</td>
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<td>Wargaming the Future of Integrated Undersea Surveillance System (IUSS)</td>
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<td>Minimization of In-Band Interferers on Airborne Anti-Submarine System Performance</td>
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<td>LCS Mission Modules Program Office (PMS 420) Update</td>
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<td>Demonstration of MIMO Active Sonar Capabilities</td>
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<td>12:00 pm</td>
<td>Networking Lunch</td>
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<td>BASE GYMNASIUM</td>
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1:00 pm

1585020
Advances in the Precision High Altitude Sonobuoy Emplacement (PHASE) Project
Brian Montague
SeaLandAire Technologies, Inc.

1574115
Mine Warfare Programs Update
Gary Jones
Mine Warfare Program Office (MWS 495)

1570758
Volumetric Low Frequency Broadband Synthetic Aperture Sonar for Deeply Buried Mines and Seabed Infrastructure
Zachary Waters
Naval Research Laboratory

1:30 pm

1555000
Triton UAS Communications Gateway
Greg Loegering
Northrop Grumman
Dave Smallwood
Northrop Grumman

1557817
Undersea Delivered Mines Development
Abiodun Osho
Mine Warfare Program Office (MWS 495)

ACINT Update
ONI

2:00 pm

1574857
Aviation Systems
Suresh Mirchandani
BRYKA SKYSTOCKS, LLC
Yash Mirchandani
BRYKA SKYSTOCKS, LLC

1613180
Angler
Terry Miller
Advanced Acoustic Concepts
Jim Richardson
Advanced Acoustic Concepts

1556465
Sensors for Environmental Superiority
Dr. Andrew Greene
NRL Division Newport

1556086
Effect of Coupled High Pressure Salt Water Absorption and Low Temperatures on the Mechanical Characteristics of Additively Manufactured Polymers
Dr. James LeBlanc
NRL Center Division Newport

2:30 pm

1576866
Advances in the Digital DIFAR Vertical Line Array (DDVLA) Sonobuoy
Brian Montague
SeaLandAire Technologies, Inc.

1613162
SUBPAC MCM Update
Neil Szanyi
SUBPAC

1559417
Unmanned Underwater Vehicle Sensor and C4I Solutions for Distributed Maritime Operations
Marc Oliveri
L3Harris Technologies
Mike Smith
L3Harris Technologies

3:00 pm

Networking Break
DEALEY CENTER OUTSIDE PLAZA
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<tr>
<th>Time</th>
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<th>Title</th>
<th>Speaker(s)</th>
<th>Organization/Company</th>
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<tr>
<td>3:30 pm</td>
<td>Potential Adversary # 1 Submarine and USW Operations</td>
<td>ONI</td>
<td>CDR Mike Dalrymple, USN</td>
<td>MCMGRU THREE</td>
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<td>1573314</td>
<td>MCMGRU THREE’s MHD Perspective</td>
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<td>1553987</td>
<td>Detecting and Tracking Surface Ships Using Non-Traditional Processing of</td>
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<td>Forward Looking Sonar Data</td>
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<td>Richard Nielsen</td>
<td>Phoenix International Holdings, Inc.</td>
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<td>The Boeing Company</td>
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<td>4:00 pm</td>
<td>Threats to Acquisition</td>
<td>ONI</td>
<td>Yash Mirchandani</td>
<td>Neoskye, Inc.</td>
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<td>1558991</td>
<td>AI-MDCS Based Mine Warfare System</td>
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<td>1559165</td>
<td>Automated Torpedo Acoustic Classifier (ATAC)</td>
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<td>Sebastian Pascarelie</td>
<td>In-Depth Engineering</td>
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<td>Scott Kempshall</td>
<td>HyALTA Aeronautics, Inc.</td>
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<td>4:30 pm</td>
<td>Threats to PNT</td>
<td>ONI</td>
<td>Jeffrey Rodgway</td>
<td>Naval Postgraduate School</td>
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<td>1556534</td>
<td>The Multi Sensor Sonobuoy and Its Promise for ASW</td>
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<td>Jameson Bergin</td>
<td>Information Systems Laboratories, Inc.</td>
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<td>5:00 pm</td>
<td>Conference Adjourns</td>
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<td>1571381</td>
<td>Sea Water Inflated Launch and Recovery System (SWI-LARS)</td>
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<td>1569714</td>
<td>Project Mazu - Subsea Pulsed Power, High Voltage Discharge, and Plasma</td>
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<td>1568242</td>
<td>Risk Management Framework (RMF) to Continuous ATO</td>
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<td>Robert Lohé</td>
<td>Phoenix International Holdings, Inc.</td>
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<td>Mitchell Loyd</td>
<td>General Dynamics Mission Systems</td>
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<td>Jim Pietrocini</td>
<td>KBR</td>
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<td>1540438</td>
<td>Controlling Your Destiny: Using State of the Practice Digital Electronic</td>
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<td>Systems Engineering To Develop DMSMS Solutions That Are Affordable</td>
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<td>to Sustain, Agile to Modernize, AND the Navy Owns the Data</td>
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<td>James Chew</td>
<td>Cadence Design Systems</td>
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<td>1571086</td>
<td>Human Centered Engineering Early in Systems Development: A Case Study of</td>
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<td>Telerobotic Manipulation</td>
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<td>Kelly Sprehn</td>
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<td>Meredith Pritchon</td>
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<td>1570243</td>
<td>Non-Traditional Signature Susceptibility Characterization</td>
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<td>1578657</td>
<td>An Apparent Impedance Approach to Advancing Corrosion Protection System</td>
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<td>Matthew Strom</td>
<td>U.S. Naval Research Laboratory</td>
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<td>Latency and Processing Power Optimization Through Neuromorphic Signal</td>
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<td>and Data Processing Approaches</td>
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<td>Better, Faster, Cheaper: Lowering Total Life Cycle Costs While Reducing</td>
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<td>Development Costs and Schedule</td>
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<td>Adam Shreer</td>
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<td>Dr. Yadu Zambre</td>
<td>Air Force Research Laboratory</td>
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