

13TH INTERNATIONAL MIW TECHNOLOGY SYMPOSIUM

PLENARY SPEAKERS

Tuesday, 22 May

- 0745:** **RDML Rick Williams, USN (RET)**
- *Advisor, Expeditionary & Mine Warfare*
Naval Postgraduate School
- 0750:** **VADM Ronald Route, USN (RET)**
- *President*
Naval Postgraduate School
- 0800:** **Major General David W. Coffman, USMC**
- *Office of CNO, Director of Expeditionary Warfare (N95)*
- 0900:** **Captain Andy Lamb OBE Royal Navy**
- *Deputy Commander Task Force 52*
Commander Fifth Fleet
Presentation: CTF 52 Operations
- 0930:** **Dr. John Huckabay**
- *Director Emeritus*
Applied Research Laboratories, University of Texas at Austin
**Presentation: “Mine Countermeasures Sonar: An ARL-Texas
Historical Development Perspective”**
- 1000:** **Break** (NPS Protocol Photographer on site for group photos in Atrium)
- 1030:** **Rear Admiral John P. Neagley, USN**
- *Program Executive Officer, Unmanned and Small Combatants*
- 1100:** **Dr. Doug Horner**
- *Center for Autonomous Vehicle Research*
Naval Postgraduate School
**Presentation: Multi-Threaded Experimentation (MTX) –
Towards an Expeditionary Network Control System**
- 1130:** **Ms. Lorene Adams**
- *Mine Warfare and UUV Advisor*
OPNAV N97
Presentation: USN Family of UUVs Vision

Technical Session I, Tuesday, May 22, 2016, 1:30 – 4:30pm

| | Laguna Grande A | Laguna Grande B | Laguna Grande E | Laguna Grande F |
|---|---|--|--|--|
| SESSION TITLE | Advanced Mine Hunting Sensors Neil Claussen Dan Sternlicht Kerry Commander NSWC, PCD | Rapid Insertion of Commercial Technology and Transition to Military Program of Record --- MK 18, an Example CAPT Glenn Allen USN, (Ret) GHS, Supporting PMS 408 | Mine Warfare Programs Andrew Fuller PMS 495 | MCM Capabilities Brian O'Donnell Georgia Tech Research Institute |
| 1330 | Advancing the Navy's Principle Mine Hunting System Rob Pohland Northrup Grumman | Program management consideration for transition COTS to PoR Mr. Rob Simmons UW EOD APM PMS 408 | Mine Warfare Program Office Overview Andrew Fuller Mine Warfare Program Office (PMS 495) | Multi-Shot Mine Neutralisation and the UK/French Maritime Mine Countermeasures Project CDR Chris Lade, RN (Ret) Saab Seeye, Ltd. |
| 1400 | HUGIN MR Mk 2: Next generation MCM AUV system for The Royal Norwegian Navy Torstein Sæbø Norwegian Defence Research Establishment (FFI) | Selecting Technologically Mature COTS solutions CDR Rick Nagle, USN (Ret) G2SS Supporting PMS 408 | Coastal Battlefield Reconnaissance and Analysis (COBRA) Initial Operational Capability & Future Mission Area Capabilities Jed Withers Areté Associates | Active Sonar Matched Waveforms for Resonant Mine-like Targets LT Justin McCorkle, USN Naval Postgraduate School |
| 1430 | European Unmanned MCM Toolbox Efforts CAPT Mark Rios, USN (Ret) ATLAS North America | Industry perspective of COTS technology integration into a Navy PoR CDR Tom Reynolds, USN (Ret) Hydroid | Mine Warfare Systems Engineering for Success Andrew Fuller Mine Warfare Program Office (PMS 495) | Teledyne Marine MCM Capabilities Teledyne Marine |
| 1500 ❧ BREAK | | | | |
| 1530 | Atomic Magnetic Gradiometers and Automatic Target Recognition for Mine Hunting from Mobile Platforms Neil Claussen NSWC PCD | Tactics and testing of COTS solutions CDR Tony Rodgers, USN (Ret) Orca Maritime | Science & Technology Transitions Andrew Fuller Mine Warfare Program Office (PMS 495) | Synthetic Aperture Sonar Contrast Prediction and Estimation Dan Brown Applied Research Laboratory, Pennsylvania State University |
| 1600 | A Low-Cost SONAR for Autonomous Mine Reacquisition Marcos M. Sastre-Córdova Raytheon Company | Civilian Personnel Supporting Military Unmanned Systems Robert Stitt Peraton Inc. | Project STINGRAY Stephen Pease Naval Postgraduate School | Calibration Transponder Measurement of Synthetic Aperture Sonar Beampatterns Brian O'Donnell Georgia Tech Research Institute |
| 1630 ❧ End of Formal Presentations | | | | |

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Wednesday, 23 May

- 0800:** International MIW Discussion Panel
Captain Hans E. Lynch, USN
- *Branch Head, Mine Warfare Branch (N952)*
- 0900:** Captain Aaron Peters, USN
- *Commanding Officer*
NSWC Panama City
Mr Peter Adair
- *Lead Technologist*
NSWC Panama City
Presentation: NSWC Panama City Update
- 0930:** Brian Almquist
- *Program Officer & Team Lead, Mine Warfare and Ocean Engineering*
Office of Naval Research
Presentation: Mine Warfare Science and Technology
- 1000:** Break
- 1030:** Paul Siegrist
- *Autonomous Maritime & Mission Systems*
The Boeing Company
Presentation: Boeing's Autonomous Systems/Echo Voyager/
Undersea Systems
- 1100:** Commander Scott Craig, DSM. RAN
- *Assistant Naval Attaché*
Embassy of Australia
Commander Tony Rodgers USN (Ret)
- *Chief Executive Officer*
Orca Maritime
Presentation: 2003 Mine Warfare Operations – UUM QASR
- 1130:** John S. Wilcher, Ph.D.
- *Head, Undersea Systems Program Office*
Georgia Tech Research Institute
Presentation: ...Towards a Robust Undersea Autonomy
Test and Evaluation (T&E) Capability

Technical Session II, Wednesday, May 23, 2016, 1:30 – 4:30pm

| | Laguna Grande A | Laguna Grande B | Laguna Grande E | Laguna Grande F |
|---|---|--|---|---|
| SESSION TITLE | Autonomy Dr. Doug Horner Naval Postgraduate School | UUVs and Systems CDR Chris Lade, RN (Ret) Saab Seaeye, Ltd. | Underwater Research Dr. Paul Beery Naval Postgraduate School | Innovation and Technology CAPT Glenn Allen USN, (Ret) GHS, Supporting PMS 408 |
| 1330 | Information theory-driven search Silvia Ferrari Cornell University | Merging commercial & military technology in ROV/AUV design CDR Chris Lade, RN (Ret) Saab Seaeye, Ltd. | Neutrally-Buoyant Fiber-Optic Tethers Michael J. Messerly Lawrence Livermore National Laboratory | MCM after LCS Jason Boxerman NSWC PCD & Naval Postgraduate School |
| 1400 | Adaptive planning for MCM surveys Daniel Stilwell Virginia Tech | Future Norwegian Unmanned Maritime Mine Counter Measures Concept Rune Fardal Norwegian Defence Research Establishment (FFI) | Naval Mine Threat Evaluation using Realistic Minefield Distributions Leif Persson Swedish Defence Research Agency | Resourcing and Requirements of rapid acquisition CAPT Glenn Allen, USN (Ret) GHS Supporting PMS 408 |
| 1430 | Autonomous Vehicle Architecture Josh Weaver NSWC-PCD | An Open Software Architecture for Marine Robotics used in EOD Applications: Enabling Rapid Technology Insertion and Adoption Ben Kinnaman Greensea Systems, Inc. | Preparing Today for the Mines of Tomorrow Joshua Edwards Ph.D. NSWC PCD | Changing the Math with a Paradigm Shift Mark Ott SubSeaSail LLC |
| 1500 🌀 BREAK | | | | |
| 1530 | Analysis of Undersea Terrain Aided Navigation Doug Horner Naval Postgraduate School | Man Portable UUVs – Capable, Affordable, and Deployable Eric Holmes L3 Technologies Patriot Works | MARK 18 MOD 2 SENSORS - Cost Effectiveness Analysis LCDR Eli Ford Naval Postgraduate School Business School | Payloads for Single – Sortie Mine Countermeasures David Jennings NSWC PCD |
| 1600 | Autobox - Containerizing Vehicle Autonomy Drew Lucas NSWC-PCD | Field Trials with Commercially Available High-Speed Towed Synthetic Aperture Sonar David Shea Kraken Robotic Systems Inc. | Next Generation MIW UUVs Dr. Paul Beery NSWC PCD SE DL & Naval Postgraduate School | MCMnext CDR Don McNeil, USN SMWDC N7X |
| 1630 🌀 End of Formal Presentations | | | | |

