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Unmanned Maritime Vehicle (UMV)Test & Evaluation Conference

Held in Conjunction with Autonomous Underwater Vehicle (AUV) Fest 2005

"Accelerating Deployment of Unmanned Maritime Vehicles Through Advancements in Test & Evaluation"

Keyport, WA

14-16 June 2005

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Industry Keynote, by Mr. Chris von Alt, Chairman, Hydroid, Inc.

Technical Session 1 - UMV T&E Experiences

- <u>Design and Testing of the Spartan USV Mine Warfare Module</u>, Dr. Robert Mons, Sr. Advisory Engineer, Northrop Grumman Corporation
- <u>Simulation and In-water Testing of the Mid-Sized Autonomous Research Vehicle (MARV)</u>, Mr. Thomas Fulton, Naval Undersea Warfare Center
- <u>Surveillance Buoy</u>, Dr. Daniel D. Morris and Dr. Franklin D. Snyder, Northrop Grumman Corporation and Mr. Eric C. Hansen, Naval Surface Warfare Center

• <u>Underwater Robotics</u>, Dr. Promode R. Bandyopadhyay, Naval Undersea Warfare Center

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Technical Session 2 - Improved UMV T&E Systems and Techniques

- <u>High Bandwidth Wireless Networks for Unmanned Maritime Vehicle Communications</u>, Mr. Sean Kragelund, Naval Postgraduate School
- <u>Improving "Ground Truth" Measurement & Stimulation for Unmanned Maritime Vehicle T&E</u>, Mr. Troy D. Kelley, Naval Undersea Warfare Center
- <u>Advanced Surface Launcher (ASL)</u>, Mr. Dave Lussier, SEA CORP and Mr. Michael Connelly, Naval Surface Warfare Center

Technical Session 3 - Advances in Land-Based and Laboratory T&E

- <u>Multi-vehicle Collaborative Autonomous Control Under Difficult Communications Conditions</u>, Mr. Robert W. Chalmers, Johns Hopkins University Applied Physics Laboratory, National Security Technology Department
- <u>An Experimentation Framework to Support UMV Design and Development</u>, Dr. Roger Neill, Dr. Francis Valentinis and Dr. John Wharington, Maritime Platforms Division, Austrialian Defence Science and Technology Organisation
- <u>Out-of-Water Test Methods to Accelerate Implementation of Autonomous Rendezvous in the NPS</u> <u>ARIES AUV</u>, CAPT J.W. Nicholson, Ph.D., United States Naval Academy
- <u>Naval Undersea Warfare Center Division Keyport</u>, Mr. Gary Zook, Naval Undersea Warfare Center

Technical Session 4 - Distributed UMV T&E and Testing with Training

- <u>Successes in Combining Testing with Training in the Modular Mission Package (MMP) Program</u>, Mr. Mark Connolly, Naval Surface Warfare Center, Panama City
- <u>Collaborative Test/Training, Experimentation/Evaluation Capability (CTEC) The NUTEC Engine for</u> <u>USW Live, Virtual, & Constructive Joint Exercises</u>, Mr. Reid Johnson, Naval Surface Warfare Center

- <u>Out-of-Water Test Methods to Accelerate Implementation of Autonomous Rendezvous in the NPS</u> <u>ARIES AUV</u>, CAPT J.W. Nicholson, Ph.D., United States Naval Academy
- <u>Enabling Effective & Efficient Fleet UMV Operational Training through Distributed USW Test &</u> <u>Training Technology Enabling Effective & Efficient</u>, Mr. Michael Kelf, Science Application Internation Corporation and Mr. G. Michael Hewitt, SONOALYSTS, Inc.
- <u>AUV Fest 2005 Demonstrations: Technologies</u>

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Plenary Session:

- <u>Naval Postgraduate School</u>, VADM Roger F. Bacon, USN (ret), Chair, Professor Undersea Warfare, Naval Postgraduate School
- <u>Naval Oceanography: Experimenting into the future...</u>, Mr. Ed Gough, Deputy Commander, Naval Meteorology and Oceanography Command
- <u>Distinguished Visitors Day Touring & Demos</u>, Mr. Steve Stuart, AUV Fest 2005 Event Manager, Naval Undersea Warfare Center
- <u>AUV Fest 2005: Highlights</u>, Col William Schopfel, USMC (Ret), Officce of Naval Research Test Director

Panel Discussion:

- Panel Members
 - o <u>Office of Naval Research: Science & Technology</u>, Dr. Thomas Swean, Office of Naval Research
 - <u>Future Technology Development and Assessment for UUV Acquisition</u>, Mr. James Griffin, Naval Undersea Warfare Center, Autonomous Systems and Technology Department
 - <u>Graduate Education for Unmanned Vehicles and Undersea Warfare: NPS Teaching, Research</u> and Partnership Strategies, Dr. Don Brutzman, Undersea Warfare Academic Group, Center for AUV Research Naval Postgraduate School (NPS)
 - <u>Customers: Fleet Operators</u>, CDR Jon Wood, Naval Special Clearance Team One/li>

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