

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"

> AUV Fest 2005 June 7 - 16, 2005

UMV T&E Conference June 14 - 16, 2005

Event #5330

National Unmanned Undersea Vehicle Test & Evaluation Center (NUTEC)

Keyport, Washington

Sponsored by:

The Office of Naval Research

Naval Undersea Warfare Center

Naval Meteorology and Oceanography Command

and

NDIA's Test & Evaluation Division









NDIA Unmanned Maritime Vehicle (UMV) Test & Evaluation Conference

June 14-16, 2005 Naval Undersea Museum Keyport, WA

AGENDA

Tuesday, June 14, 2005

7:15 a.m. Conference Check-In and Continental Breakfast

Naval Undersea Museum Lobby

PLENARY SESSION

8:00 a.m. Call to Order

Mr. C. Samuel Campagna, Director, Operations, NDIA

8:05 a.m. Presentation of the Colors and National Anthem

Navy Band of the Northwest and U.S. Navy Color Guard

8:10 a.m. Welcome

CAPT Daniel J. Looney, USN, Commander, Naval Undersea

Warfare Center Division, Keyport

8:15 a.m. Navy Keynote

Accelerating Deployment of Unmanned Maritime Vehicles Through Advancements in Test & Evaluation Capabilities Dr. Paul Lefebvre, Undersea Warfare Analysis and Assessment

Product Area Director, Naval Undersea Warfare Center

8:45 a.m. Industry Keynote

Test & Evaluation Needs, Challenges, and Successes in Accelerating Delivery of UUV Systems to the Fleet

Accelerating Delivery of UUV Systems to the Fleet Mr. Chris von Alt, Chairman, Hydroid, Inc.

9:15 a.m. Break and Refreshments in Display Area

9:15 a.m.- Display Area & Remote AUV Fest 2005 Display Center Open

5:00 p.m. Naval Undersea Museum Display Area and AUV Fest 2005 Remote

Display Viewing Center

TECHNICAL SESSION 1 - UMV T&E EXPERIENCES

10:15 a.m. Opening Remarks

Mr. Richard R. Peel, Conference Chairman, Naval Undersea Warfare Center

Design and Testing of the Spartan USV Mine Warfare Module Dr. Robert Mons, Northrop Grumman Corporation

Simulation and In-water Testing of the Mid-sized Autonomous Research Vehicle (MARV) to Support USCG Homeland Security Applications *Mr. Thomas Fulton*, Naval Undersea Warfare Center

Testing Automatic Ship Detection and Classification with EO Data

Dr. Daniel Morris, Dr. Franklin Snyder, and Mr. Eric Hansen, Northrop Grumman

Corporation





Development of an Automated Biorobotic Marine Vehicle Dr. Promode Bandyopadhyay, Naval Undersea Warfare Center

12:00 p.m. Lunch

1:00 p.m.- AUV Fest 2005 Demonstrations

5:00 p.m. Shuttle bus transportation to/from the Keyport waterfront

5:30 p.m.- Opening Reception 7:00 p.m. Naval Undersea Museum

Wednesday, June 15, 2005

7:15 a.m. Conference Check-In and Continental Breakfast

Naval Undersea Museum Lobby

TECHNICAL SESSION 2 – IMPROVED UMV T&E SYSTEMS AND TECHNIQUES

8:00 a.m. Session Chairman's Opening Remarks

CDR Roy Barnes, USN, Operational Test and

Evaluation Force

High-Bandwidth Wireless Networks for UMV Mr. Sean Kragelund, Naval Postgraduate School

Improving "Ground Truth" Measurement &

Stimulation for UMV T&E

Mr. Troy D. Kelley, Naval Undersea Warfare Center

Advanced Surface Launcher (ASL)

Mr. David Lussier, SEA CORP and Mr. Michael Connelly, Naval Undersea Warfare Center

9:45 a.m. Break and Refreshments in Display Area

9:45 a.m.- Display Area & Remote AUV Fest Display Center Open

5:00 p.m. Naval Undersea Museum Display Area and AUV Fest 2005 Remote Display

Viewing Center

TECHNICAL SESSION 3 – ADVANCES IN LAND-BASED AND LABORATORY T&E

10:15 a.m. Session Chairman's Opening Remarks

Mr. Jim Griffin, Naval Undersea Warfare Center

Multi-vehicle Collaborative Autonomous Control Under Difficult Communications

Conditions

Mr. Robert Chalmers, Johns Hopkins University Applied Physics Laboratory

A Framework to Support UMV Design and Evaluation

Dr. Roger Neill, Australian Defence Science and Technology Organisation

Out-of-Water Test Methods to Accelerate Implementation of Autonomous Rendezvous in the NPS ARIES AUV

CAPT John Nicholson, USN, United States Naval Academy

Durability Assessment Using Accelerated Life Testing Mr. Gary Zook, Naval Undersea Warfare Center

12:00 p.m. Lunch

TECHNICAL SESSION 4 – DISTRIBUTED UMV T&E AND TESTING WITH TRAINING

1:00 p.m. Opening Remarks

Dr. Thomas Swean, Office of Naval Research

Testing and Training for the Modular Mission Package Program Mr. Mark Connolly, NSWC Panama City

Collaborative Test, Training, Experimentation, & Evaluation Capability (CTEC) – The NUTEC Engine for USW Live, Virtual, & Constructive Joint Testing Mr. Reid Johnson, Naval Undersea Warfare Center

Enabling Effective & Efficient Fleet UMV Operational Training through Distributed USW Test & Training Technology Mr. Brian J. Williams, SAIC; Michael A. Kelf, Naval Undersea Warfare Center

2:20 p.m.- AUV Fest 2005 Demonstrations

5:00 p.m. Shuttle bus transportation to/from the Keyport waterfront





Thursday, June 16, 2005

7:15 a.m. Conference Check-In and Continental Breakfast

Naval Undersea Museum Lobby

PLENARY SESSION DISTINGUISHED VISITORS DAY

8:00 a.m. Call to Order

Mr. C. Samuel Campagna, Director, Operations, NDIA

8:05 a.m. Presentation of the Colors and National Anthem

U.S. Navy Color Guard and Kitsap Chordsmen

8:10 a.m. Welcome and Opening Remarks

Mr. Donald F. McCormack, Jr., Technical Director (Acting), Naval Undersea Warfare Center

8:20 a.m. Plenary Session Introduction

Mr. Jim O'Bryon, Chairman, NDIA Test and Evaluation Division

8:35 a.m. NDIA Perspectives

Lt Gen Lawrence Farrell, USAF (Ret), President & CEO, NDIA

8:50 a.m. Future Littoral USW With Unmanned Systems - An Integrated Warfare View

VADM Roger Bacon, USN (Ret), Naval Post Graduate School

9:05 a.m. Naval Oceanography - Experimenting in to the Future

Mr. Edward Gough, Technical Director, Naval Meteorology and Oceanography

Command

9:35 a.m. Overview of Activities for Distinguished Visitors Day

Mr. Steve Stuart, AUV Fest 2005 Event Manager, Naval

Undersea Warfare Center

9:45 a.m. Break and Refreshments in Display Area

10:15 a.m. Highlights of AUV Fest 2005 Demonstrations

Col William Schopfel, USMC (Ret), Office of

Naval Research Test Director

11:00 a.m. Panel Discussion

Senior UUV Community Leaders from Government,

Academia, and Industry

12:10 a.m. Closing Remarks

CAPT Daniel J. Looney, USN, Commander, Naval Undersea Warfare Center Division,

Keyport

12:15 p.m. Lunch

12:15 p.m.- Display Area & Remote AUV Fest 2005 Display Center Open

5:00 p.m. Display Area and AUV Fest 2005 Remote Display Viewing Center (Lower Level)

1:30 p.m. Waterfront Vehicle Area Tours & Viewing of Live UMV Demonstrations

Shuttle bus transportation to/from the Keyport waterfront

5:30 p.m. Salmon Bake

Keyport Lagoon Picnic Area











http://kpwawao.kpt.nuwc.navy.mil/NUTEC

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"The Department of Defense finds that this event meets the minimum regulatory standards for attendance by DoD employees. This finding does not constitute a blanket approval or endorsement for attendance. Individual DoD component commands or organizations are responsible for approving attendance of its employees."

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