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
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 Choralemen

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’Bryen, 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
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.

NDIA Unmanned Maritime Vehicle Test & Evaluation Conference

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