

# **State of the Undersea Warfare Division**

2010 Spring Conference Report  
Bruce Spear  
Chairman, NDIA UWD

# Agenda

- Mission
- Summary and Financial Condition
- Leadership Engagement
- Status of Major Studies
- Upcoming Plans
- Industry Achievements
- Report to SECNAV
- Conclusion

# Our Mission

- Promote the Exchange of Technical Information between Government & Industry and Expansion of R&D
- Serve as an Open Communications Conduit Between Government & Industry
- Advise Government & Industry on Policy, Acquisition and Planning
- Conduct Studies using Voluntary Resources and Participation by Members and Government Liaison(s)
- Operate as an Independent Organization (i.e., No Government Contracts and not Representing Any Individual or Company)

# Summary & Financial Condition

- ~50 Industry Executive Volunteers in UWD Leadership
- 2 Major High Value Annual Conferences at SECRET Level (~1500 annual attendees) - funded by conference fees
- Recognition Awards to Technical and Leadership Icons - funded from pro rata of conference & membership fees
- Annual Scholarship Awards for 3 Key Graduate Students - funded by trust fund and conference proceeds
- Studies/Technical Committees: Sensors, C4 and Combat Systems, Aviation, Mine Warfare & Undersea Vehicles – “pro bono” via Individual and Member Company Support
- Executive Roundtable Sessions with Key Navy Leadership

# Senior Leadership Engagement

- ***RADM (ret) Jerry Ellis & RADM Frank Drennan*** re Current Assessment of of Undersea Warfare (JAN 2009)
- ***RADM Drennan*** at 2009 Spring Conference
- ***RADM Bill Burke*** re QDR (AUG 2009)
- ***SECNAV*** at 2009 Fall Conference & Clambake
- ***RADM Drennan & NMAWC Staff*** re SECNAV Report & Relationships (OCT 2009)
- ***RDML Benedict*** re PEO IWS (JAN 2010)
- ***Numerous Flag Officers, SES, and Program Managers*** at Spring and Fall Conferences

# UWD Studies

- Specific operational or technical issues requiring investigation
- Bring the intellect & energy of industry-academia-laboratory-Navy to key issues
  - Part time, volunteer labor ~ 1 full labor year effort per study
- Requires Navy Liaison
  - Terms of Reference and Tasking Letter
  - Support for access to classified information
- UWD assigns Study Leader, seeks wide community participation
- Study leaders hold periodic reviews with liaison
- Navy approves final report and follow-on tasking

***We Have Engaged Nearly ALL USW Stakeholder Commands and Delivered Numerous Relevant Reports***

# Recent Studies

## Published

- ✓ **ASW Common Tactical Picture**
- ✓ **USW Distributed Netted Sensors**
- ✓ **Littoral ASW Technology for Self and Force Protection**
- ✓ **Peer Review of FORCEnet Architecture and Standards**
- ✓ **Open Architecture, Dual Commercial/Military Use of LDUUVs**
- ✓ **Sonobuoy Receiver Digital Output Interface Study**

## In Process

- C4I and Combat Systems**
- Mine Warfare: Underwater IED Study for NMAWC**
- State of Practice in Unmanned Systems Technology**

# Plans for 2010-2011

- **Spring & Fall Conferences** - incorporate member feedback, enhance Navy leadership attendance, use plenary session to stimulate dialogue on key issues, follow-up with action plans
- **Co-sponsor DNS/UUV Conference with NUWC** - collaboration on next generation unmanned undersea systems
- **Studies** - support all USW stakeholders, add studies to address issues from OPNAV ASW Board, e.g., "Assured Access"
- **Leadership** - enhance partnership with Navy, raise the amplitude on our voice to emphasize USW priority
- **Scholarships & Awards** – continue the process and levels of funding, recognize recipients in newsletter

# Key Industry Achievements!

- Enabled affordable multi-year SSN authorization
- Delivered first flight of P-8 Poseidon MSA
- Deployed first RMS, ALFS, MH-60R & MH-60S
- AQS-20, AMNS, MK48 CBASS, & MK54 now in production
- Delivered LCS variants & USVs for USW mission module
- Enhanced hull and towed sensor technologies
- Used ARCI concept across sub/surface/air/surveillance
- Fielded USW-DSS via AN/UYQ-100 ACB V2
- Successful AIM-9X LWW submerged launch

***Must Sustain R&D while Procuring  
Sufficient Quantities***

# NDIA UWD Report to SECNAV

<http://www.ndia.org/Divisions/Divisions/UnderseaWarfare/Documents/Report-State%20of%20the%20USW%20Industrial%20Base.pdf>



2111 Wilson Boulevard, Suite 400  
Arlington, Virginia 22201-2061  
Tel: (703) 522-1820 • Fax: (703) 522-1885  
Web page: <http://www.ndia.org>

*The Voice of the Industrial Base*

September 2, 2009

Office of the Secretary of the Navy  
1000 Navy Pentagon  
Washington, DC 20350-1000

SUBJECT: Report on the Undersea Warfare Industrial Base

Dear Secretary Mabus:

As prescribed by the bylaws and charter of the National Defense Industrial Association's Undersea Warfare Division (NDIA UWD), enclosed please find a report which summarizes the state of the undersea warfare industrial base, studies and other activities of the NDIA UWD.

Thank you for accepting the invitation to speak at the Undersea Warfare Conference during the week of September 21st. I wanted to provide you the opportunity to review this division's report prior to your address, since we expect nearly a thousand attendees from the Undersea Warfare community. The planning team for this conference is both excited and delighted that you accepted the invitation, which sends a strong message of support for a key mission of our Navy.

Also in context of this being a year of activity on the Quadrennial Defense Review (QDR), we stand ready and welcome the opportunity to provide a face-to-face briefing on this report to you, members of your staff and/or the Navy's QDR team.

Having personally sampled the meetings and conferences of the NDIA UWD, I am confident this organization will continue playing a strong liaison role between government and industry to enhance collaboration as we build and support the capability for our naval forces.

Very respectfully,

Lawrence P. Farrell, Jr.  
Lieutenant General, USAF (Ret.)  
President and CEO

Enclosure: The State of the Undersea Warfare Industrial Base

*"Publishers of National Defense Magazine"*



## State of the Undersea Warfare Industrial Base

Prepared by the  
National Defense Industrial Association  
Undersea Warfare Division (UWD)  
August 2009

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***We Must Not Let the Near Term Budget Pressures Cause Strategic Myopia!***

# Conclusion

- UWD is Active and Financially Healthy
- UWD Leadership is Engaged at All Levels
- Navy Participation in UWD is Supportive & Responsive
- NUWC Partnership on DNS/UUV Conference
- Studies have brought value to many stakeholders
- Conferences & roundtables strengthen our relationships
- Scholarships & outreach are building our bench strength
- Budgets & priorities present major challenges
- Participation in UWD is near record high levels
- NDIA UWD is working because of YOU!

***We Are Committed to US Navy USW Supremacy!***