

# Undersea Warfare Division Executive Board Meeting 01 February 2011

San Diego, CA

# Agenda

- Chairman's Comments – Rick Udicious
- Committee Reports
  - Nominations & EB/AC Status – Tom Casey
  - Spring Conference – Wayne Jakubowski
  - Fall Conference – Paul Normand
  - Publications – Tom Dion
  - Awards – Bob Kittredge
  - Roundtable – Mike Sharp
  - Undersea Sensors – Jose Rio
  - Mine Warfare – Eric Holmes
  - Undersea Warfare Vehicles – Rich Talipsky
  - Aviation USW – Glen Sharpe
  - C4I & Combat Systems – Paul Rosbolt
- Advisory Council Remarks – Ron McKenzie

# Chairman's Remarks

- Policy on guests at Executive Board Round Table Discussions
- State of the Industry ... Need "Biennial Report Team"
- Executive Roundtable Deputy Position
- Advisory Council Mentoring
- NDIA 2011 Top Issues
- PEO IWS Industry Day Conference
- Classified Documentation and Conferences

***Looking forward to Spring Conference!***

# AC Engagement

## AC Member

- John Holmes
- Tom Casey
- Ron McKenzie
- Mike Sharp
- Don Randall
- John Brandes
- Mike Tucker
- Ray Witter
- Charlie Young
- Paul Sullivan
- John Butler
- Ron Blue
- Bruce Spear

## Current & RSVP Preference(s)

- Deputy Chairman
- Nominating Chairman
- AC Chairman
- Roundtable Executive
- C4I ... Undersea Vehicles
- Nominating ... Wargame
- C4I
- Nominating, Awards ... C4I
- Undersea Vehicles
- Fall Conference and Clambake
- Available as Mentor
- Retiring
- "Ex Officio"

# National Defense Industrial Association 2011 Top Issues

- Issue #1: Ensure an Ethical, and Agile Acquisition System Responsive to the DoD's Needs
- Issue #2: The Defense Industrial Base – Now and in the Future
- Issue #3: Increase Government Contract Usage of All Small Businesses
- Issue #4: Sustaining Military Readiness While Providing For The Future
- Issue #5: Support Efficient and Transparent International Access For the US Defense Industrial Base

NDIA Link to 2011 Top Issues:

[http://www.ndia.org/Advocacy/Resources/Documents/LegislativeAlerts/Top\\_Issues\\_2011.pdf](http://www.ndia.org/Advocacy/Resources/Documents/LegislativeAlerts/Top_Issues_2011.pdf)

# PEO IWS Industry Day Conference

- UWD has been asked to assist with preparation and if possible meet with Mr. Jimmy Smith no later than end of February to assist with planning and potential for Panel Discussion
- NDIA will facilitate the conference to be held June 20-22 to address the following topics:
  - (1) current National, DoD, and Navy leadership perspectives
  - (2) the impact of the current acquisition climate on PEO IWS programs and transitions
  - (3) program needs, challenges and critical initiatives
  - (4) removing obstacles to effective business practices (Panel Discussion)
  - (5) interaction with IWS Major Program Managers (MPM)

**Action: Identify attendees for week of 21 Feb planning session with Mr. Jimmy Smith**

## NDIA – Classified Documentation

- NDIA met with VADM Skinner, Dep ASNRDA in December to develop a way forward that will result in NDIA being able to conduct studies.
  - Waiting on ASNRDA
  - Until further notice NDIA can not perform any classified studies
- NDIA UWD has partnered with NUWC/SPAWAR who will “control” classified documents generated in support of NDIA UWD Spring and Fall conferences.
  - Any documentation provided to NUWC/SPAWAR in support of these conferences will be destroyed at the conclusion of the conference unless the owner picks it up.
  - No change to previous protocol.
- NDIA UWD has completed the action to respond to NDIA that none of its executive/advisory board members are holding any classified information developed or used for studies completed in the past.

# Nominating Committee Report

Tom Casey, Chair

John Brandes

John Holmes

John Padgett

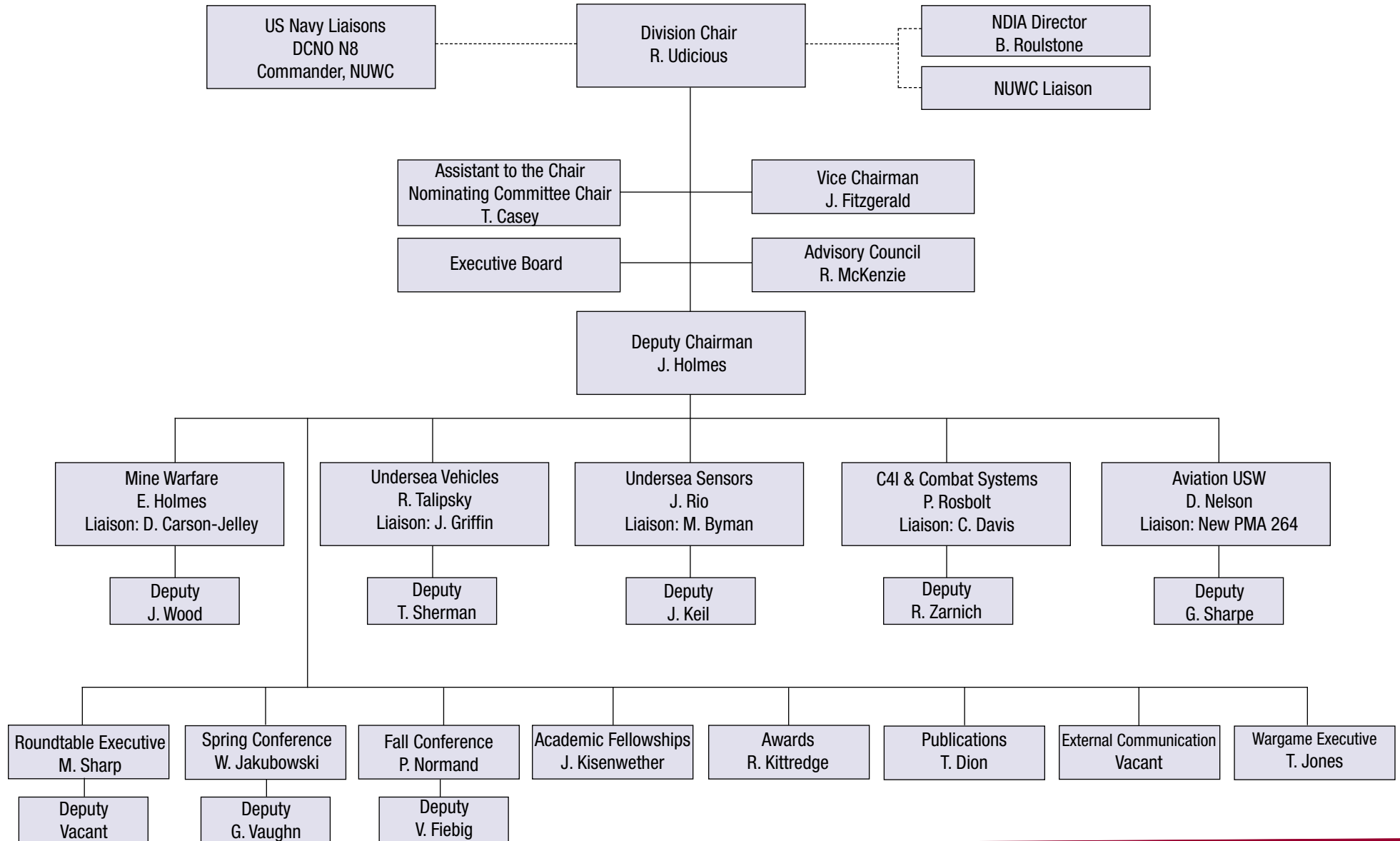
Don Randall

Ray Witter

# Open Positions

- **John Padgett** - added to Nominations Committee
- **John Holmes** - added to Nominations Committee
- **Glen Sharpe** - New Aviation ASW Committee Deputy
- **Greg Vaughn**- Spring Program Chair Backup
- **Victor Fiebig** - Fall Program Chair Backup
- **Jim Kisenwether** - New Academic Fellowships Chair
- External Communications - **Vacant**
- Round Table Executive - **Seeking Deputy**
  
- ***Note: Current practice is to fill vacancies first for chair backups and deputies when adding new EB members to insure vitality and keep #'s bounded***

# NDIA Undersea Warfare Division Management Team



# Joint Undersea Warfare Spring 2011 Conference Report

Wayne Jakubowski  
Conference Chair

Greg Vaughn  
Co-Chair

# Spring Conference

## March 28-31 Hyatt Islandia

- 2011 Spring Conference Theme
  - ***“Undersea Warfare – Enabling the New Generation of UxVs, Communications, Sensors, Payloads, and Platform Capabilities”***
- Greg Vaughn and I met with Admiral Hebner’s deputy, Jerry Ferguson in October.
  - *RADM Hebner will speak, but uncomfortable with taking on sponsorship (security responsibility) for Spring Conference due to inadequate NMAWC staffing*
  - *Subsequent to this visit RDML Wears has agreed for NUWC to be the conference sponsor and backstop security.*
- Formal invitations to Navy leadership sent, most invitees have responded and the plenary agenda is almost complete
  - *Awaiting confirmation from ~4 flags (3 likely and 1 uncertain)*

# Format Update

## Currently Planned:

- Tuesday Plenary
  - *Tuesday Flag and NDIA Executive Board luncheon vice speaker's dinner Monday evening*
  - *Mongolian Barbecue at Islandia Tuesday evening*
- Wed morning Technical Plenary
  - *Each Navy Code presenting their programs and plans for the future (O-6 Level Briefs)*
  - *Exception is Admiral Carpenter – tentative lead off for the Wed morning session*
- Wed afternoon starts break-out technical sessions.

# Plenary Agenda

Tuesday Morning

0800 - 1330

RADM Hebner

NMAWC/ASW

RDML (Sel) Sawyer

NMAWC/MIW

RADM Brady

COMSPAWAR

RDML Hewitt

Reconnaissance Group

Break

RADM Caldwell

COMSUBPAC

RADM Connor

N87

Awards (1145 – 1200)

Lunch (1200 – 1330)

# Plenary Agenda

Tuesday Afternoon

1330 - 1700

RADM Carr

ONR

RDML Shannon

COMNAVSURFWAR

RDML Wears

NUWC

Mr. Pfundstein

Farragut Technical  
Analysis Center

Break

Ms Sandel

PEO LMW

IWS SES (TBD)

PEO IWS

# Plenary Agenda

Wednesday Morning 0730 - 1300

RADM Carpenter

COMNAVWARDOC

Capt Kearney

PMS 404

Capt Ashton

PMS 406

Capt Davis

IWS 5

Mr. Joe Johnson

IWS 5A

Break

Capt San Pedro

PMW770

Capt Ramirez

PMA264

Capt Rios

N852

Lunch (1200 – 1300)

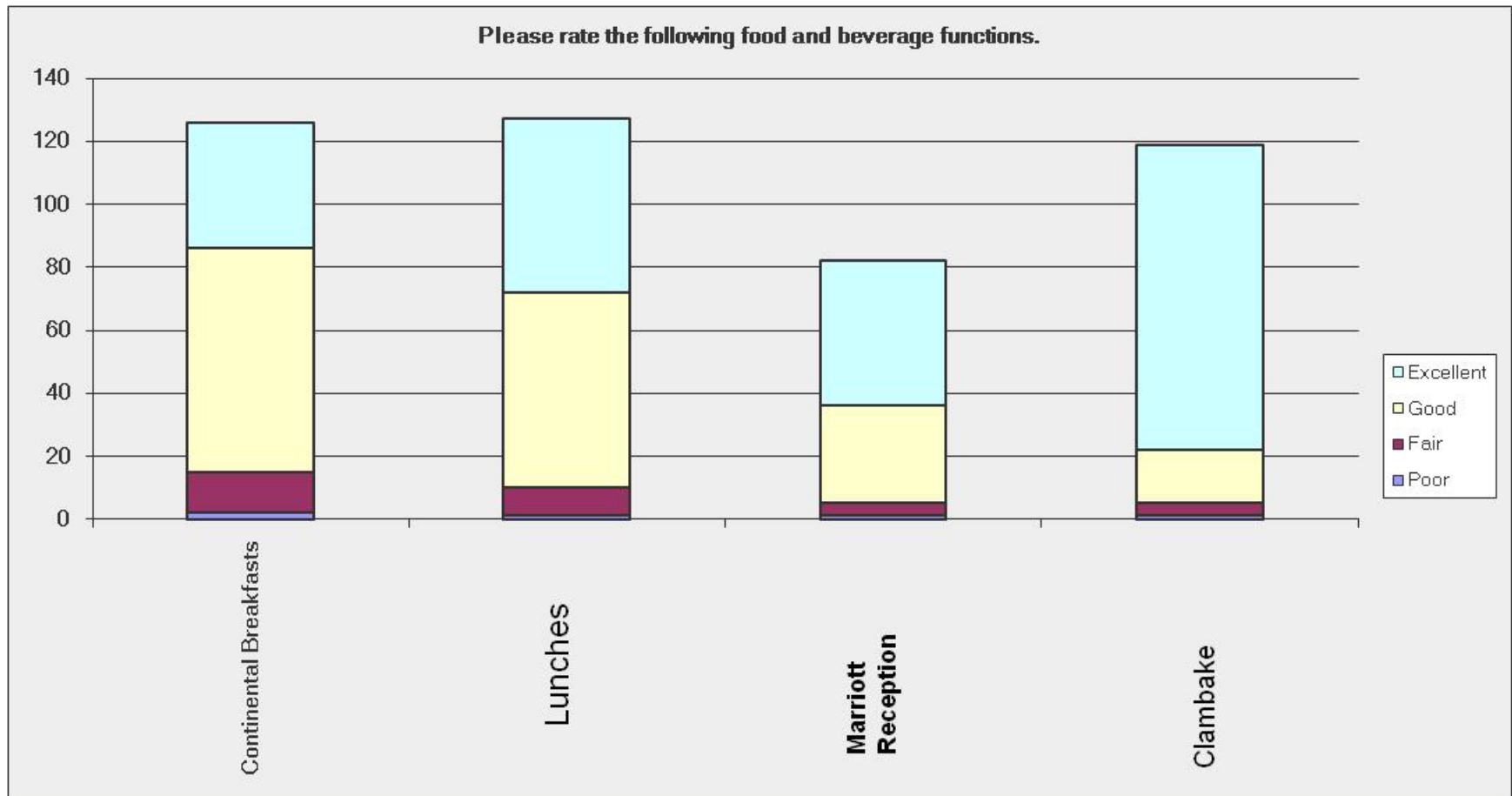
# Joint Undersea Warfare Fall Conference Report

Paul Normand  
Conference Chair  
Victor Fiebig  
Co-Chair

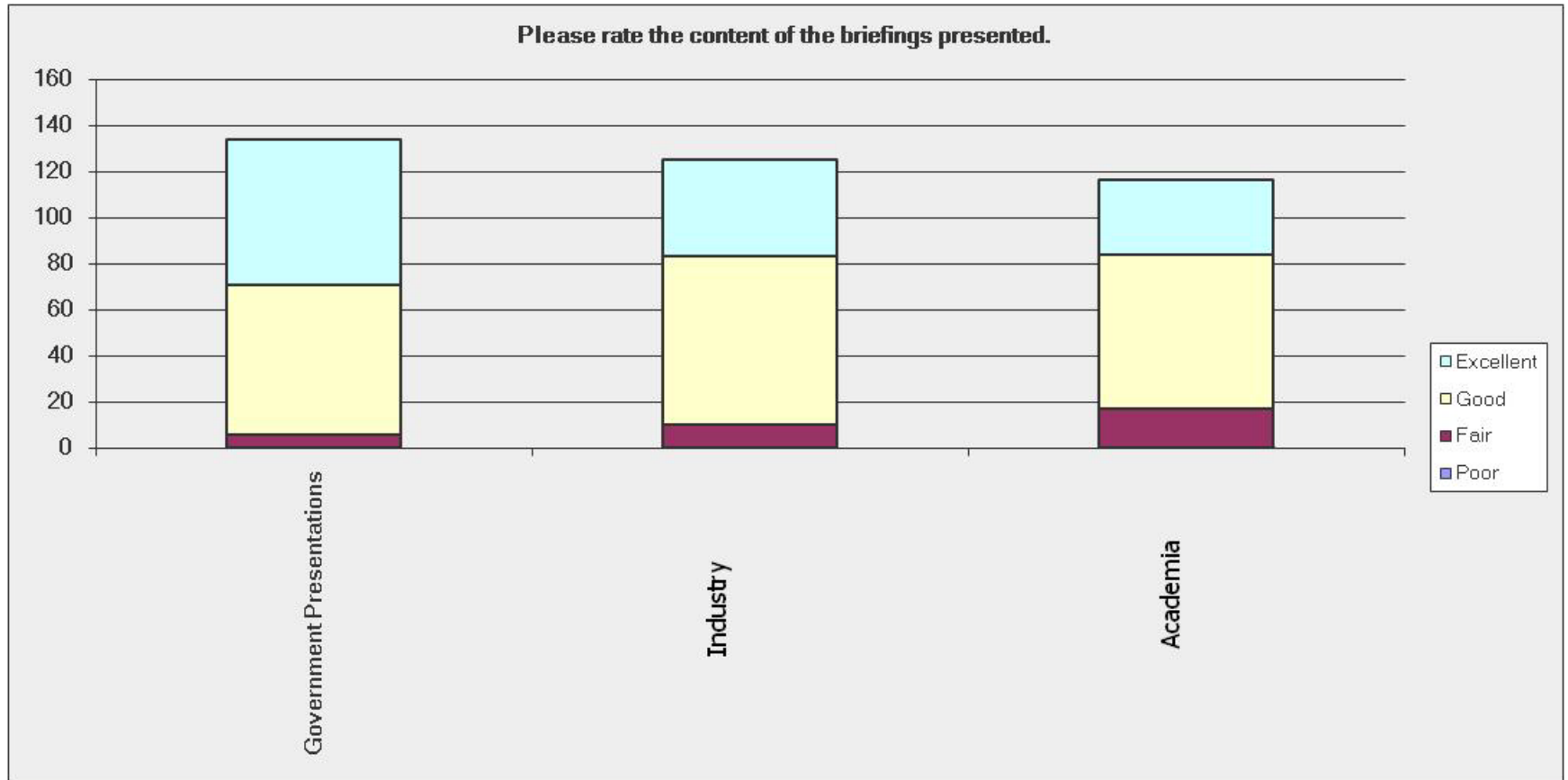
# Fall 2010 NDIA Conference – Recap and Summary

- Theme:  
    **“Undersea Warfare: Leveraging the  
    Undersea Environment.”**
  - Held 20-23 Sept 2010
- Number of attendees 981
  - 304 Government/academia
  - 516 Industry
  - 106 Technical Speakers
  - 55 Plenary speakers, award winners  
and others

# Survey: Quality of Food and Beverage



# Survey: Quality of Presentations



# Fall 2010 Conference: Major Issues Identified

- Total Ownership Cost (platforms and systems)
- Availability of \$\$ for R&D particularly ASW
- Risk aversion to fielding capabilities
- Decrease in Defense Dollars
- Balancing procurement with declining dollars (impact of ORP)
- Developing an integrated strategy for Unmanned Vehicles and supporting budget (CONOPS and Commitment)
- Get solutions fielded vs. delay for new technology
- Include Intelligence Brief

# Fall 2011 NDIA Conference

- Schedule
  - 26 Sept Executive Board Mtg, Welcome Reception, Speaker's Dinner
  - 27-28 Sept Plenary Session
  - 28-29 Sept Technical Sessions
  - 27 Sept CLAMBAKE

# Publications

Tom Dion  
Committee Chair



PROMOTING NATIONAL SECURITY SINCE 1919

FALL 2010, NUMBER 28

*Leveraging the Undersea Environment*

## UNDERSEA WARFARE DIVISION



RDML THOMAS WEARS,  
USN, COMNUWC

### UUVs... Addressing Fleet Needs — A Message From the Naval Undersea Warfare Center

There is no doubt that unmanned systems have been elevated to a more prominent position in national defense planning. The list of recent events that demonstrate this is long: the Secretary of Defense and CNO have placed new emphasis on these systems; the role of Unmanned Undersea Vehicles (UUVs) in Information Dominance under OPNAV N2/N6 aegis has been formalized; a new unmanned systems office (PMS 406) has been established under PEO LMVW; an Undersea Dominance flag-level steering group has been organized; Fleet experimentation with unmanned vehicles has expanded, and a number of operational concepts and studies addressing unmanned systems have been promulgated. These developments (and others) have instilled a sense of urgency across the USW community to quickly field better, more effective systems. We have responded

In June, National Defense Industrial Association (NDIA) and Naval Undersea Warfare Center (NUWC) collaborated in hosting a conference in Newport where the workshop's resultant technology focus areas for UUV Fleet operations were briefed to a standing-room-only crowd of industry representatives (a direct result of NDIA's ability to unite industry around national defense issues). Following that briefing more than 70 industry experts who had answered NDIA's call for papers

*"As the Secretary of Defense has pointed out, the nation cannot afford 'Quixotic Pursuit' of high-tech perfection that incurs unacceptable cost and risk."*

presented their views of how the maturity of their technical solutions addressed evolving operational needs through enabling capabilities such as range of autonomy, endurance, mission-supportive sensors and payloads,

and how they would support near-term, robust, reliable experimentation and reduce risk. The conference results validated that there are indeed several technologies out there that could provide real capability to the warfighter. The challenge is in assessing the technology against specific

NUWC LETTER CONTINUED ON PAGE 2

as a team by following the general concept generation, concept development (CG/CD) and experimentation methodology (described in the Fall 2008 Newsletter), and by working together to address the pressing need to place more operationally viable UUV systems in the Fleet.

This past March the Naval War College helped plan and conduct a UUV Stakeholder Workshop where government participants reviewed the near-term operational imperative and helped refine a message to industry in which the Fleet's general UUV needs would be presented. Representatives from the Fleet, Type Commands, Office of the Chief of Naval Operations (OPNAV) staff, Systems Commands, Warfare Centers, Navy and government laboratories, Office of Naval Research (ONR) and Defense Advanced Research Project Agency (DARPA) participated.

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- RADM Scott Hebner, COMNMAWC, will provide Intro for Spring 2011 Newsletter
- RDML Wears (COMNUWC) and Don McCormack (NUWC TD) provided Intro for Fall 2010 Newsletter
- Executive Summary of UWD's 5 Major Issues for consideration in the NDIA 2011 Issue Paper included in the 2010 Fall Newsletter
- Email sent 19 Jan requesting Spring Newsletter inputs by Fri, 25 Feb, to support posting to NDIA UWD Website by Mid-Mar

# Spring 2011 Awards Report

Bob Kittredge, Chair  
Juergen Keil & Jerry Bradshaw

# Awards Committee Report

- Solicited EB/AC Nominations for Spring 2011
  - eMail was sent to EB /AC on or about Sept 1st , Reply NLT 15 October
- Major Awards:
  - Martell-Bushnell: for ASW / USW *Technical Prowess*
    - Exceptional contributions in the field of ASW and/or Undersea Warfare technology
    - Outstanding achievement(s) in scientific R&D of ASW and/or Undersea Warfare systems
- Nominees are being vetted and will be announced at the Spring Conference

# Awards Committee Report

- **Weakley:**
  - Meritorious service or noteworthy contributions to effective Government / Industry communications in the field of USW.
- Nominees are being vetted and will be announced at the Spring Conference
- **Ringenberg:**
  - Outstanding services and noteworthy contributions to the UWD
  - Must serve, or have served, in the NDIA UWD or predecessor organizations

One nomination unanimously selected ... To Be Announced at Conference

# Executive Roundtable Committee

Mike Sharp  
Committee Chair

# Spring 2011 Roundtable

- **Ground Rules**
  - Classified discussion up to SECRET
  - Not for attribution
  - All electronic devices to be turned off and left outside
- **Accepting suggestions for our Guest for the next Roundtable**
  - Summer 2011

**Rear Admiral Patrick H. Brady**  
**Commander, Space and Naval Warfare**  
**Systems Command**



- **Assumed Command in August 2010**
- **Previous Flag Assignments**
  - Commander NUWC
  - Deputy Director N87
  - NAVSEA 07
- **Acquisition Assignments**
  - C5I Deputy Design/Warfare Reqmts manager and Deputy PM for Virginia class submarine (PMS 450)
  - Major PM for Submarine Combat and Weapons Control (PMS 425)
  - EA to Commander, NAVSEA
  - Major PM for Advanced Undersea Systems (PMS 394)
- **Sea Tours**
  - USS Lewis and Clark (SSBN 644) Blue
  - USS Omaha (SSN 692)
  - USS San Francisco (SSN 711)
  - USS Drum (SSN 677)
  - Commanded USS Portsmouth (SSN 707)
- **Education**
  - 1981 Graduate of USNA
  - Master's in National Security Affairs from NPS
- **Additional item of note**
  - Awarded the Hispanic Engineers National Achievement Award for Executive Excellence

**Rear Admiral Jerry Burroughs**  
*Program Executive Officer for  
Command, Control, Communications,  
Computers and Intelligence (C4I)*



• **Prior Flag Officer Assignment**

- SPAWAR 5.0 – Chief Engineer

• **Acquisition Assignments**

- APM for Unmanned Undersea Vehicles (PMS 403)
- PM at Defense Advanced Research Projects Agency (DARPA)
- Major PM for the SOF Undersea Mobility Program (PMS 399)

• **Sea Tours**

- USS Nathan Hale (SSBN 623)
- USS Honolulu (SSN 718)
- USS Finback (SSN 670)
- Commanded USS Albuquerque (SSN 706)

• **Education**

- 1981 Graduate of North Carolina State University
- MS National Resource Strategy from the Industrial College of the Armed Forces (ICAF)

# Undersea Sensors Committee

**Jose Rio, Chairman**

**J. Keil, Deputy Chairman**

**CAPT. M. Byman USN, Liaison**

# Submissions

- **USW Sensors has received 31 submissions to date**
- **The Technical Plenary will be using CAPT Charles Davis IWS-5 and Mr. Joseph Johnson IWS-5A from the Sensors Session, leaving 29 papers**
- **We expect to work with CAPT. Paul Rosbolt USN (ret), the C4I Chair, and run a split session.**
  - **Details are yet to be worked.**

# Paper Distribution

Government	Industry	University Labs
12	15	4
38%	50%	12%

# Aviation USW Committee

**Dave Nelson, Chairman**

**Glen Sharpe, Deputy Chairman**

**Liaison TBD**

# Aviation USW Committee

- Fall '10 synopsis
  - Broad agenda with a good mix of material (more papers submitted than slots available)
  - Several key events regarding airborne systems since Fall '10 conference (H-60, P-3, P-8)
  - PMA's are slated to provide comprehensive platform status – both legacy and emerging
  - Abstracts cover board range of:
    - Active acoustic sensors
    - Distributed multi-static system processing
    - Non-Acoustic and environmental sensing technologies
    - Unmanned airborne systems
  - POM 12 data base submitted to OSD (USN confident)
  - Move to consolidate Airborne USW messages (ongoing w/OPNAV/Norfolk/Pax)

Aviation: In what areas are we losing critical expertise which will not be sustained or reconstituted by existing programs of record or planned industry investment?

- PB-12 appears to sustain Aviation USW recapitalization (H-60/P-3 sustainment/P-8)
- Potential for USW “training” as these platforms perform “multi-missions”, irregular warfare, etc.
- BAMS program of record will add a needed strategic dimension to persistent ISR/USW

Aviation: What products/technologies exist today for which an incremental expense could deliver it as operational capability to the fleet?

- All “platforms” have potential (and plans) for incremental capability enhancement
- This appears to be the “accepted” OSD strategy (80% solution quicker, incremental upgrades)
- Software, Networks upgrades are “planned” for most if not all aviation platforms

Aviation: Review and Assess liaison contact plans which may need a revised engagement approach due to Navy realignments (N2/N6), C10F

- Glen Sharpe on board as Deputy
- Need new technical liaison (working new PMA 264)
- Interesting division of labor between N8 and N2/N6
  - Most aviation USW stayed with N8, ISR/Unmanned to N2/N6
  - Been challenging for industry to approach new N2/N6 org until dust settles
  - CNO – power supplies
  - Follow the money

# Mine Warfare Committee

**Eric Holmes, Chairman**

**Barry Bakos, Deputy Chairman**

**Donna Carson-Jelley (PMS495), Liaison**

# MIW Committee Report

- New Deputy Chairman – Barry Bakos
- Fall Conference Report
  - Broad mix of Industry, Government and Academia presentations
  - Well attended throughout
- Spring Conference Status
  - 18 submissions
    - Focus on neutralization and mining
    - Government, Industry and Academia well represented
  - Technical Committee meeting at lunch on Wednesday
- MIW thrust into Open Architecture – coordinating working group session through committee liaison
- UIED Study – on hold

# **Undersea Warfare Vehicles Committee**

**Rich Talipsky, Chairman**

**Tom Sherman, Deputy Chairman**

**Navy Liaison, Jim Griffin, NUWC, Newport**

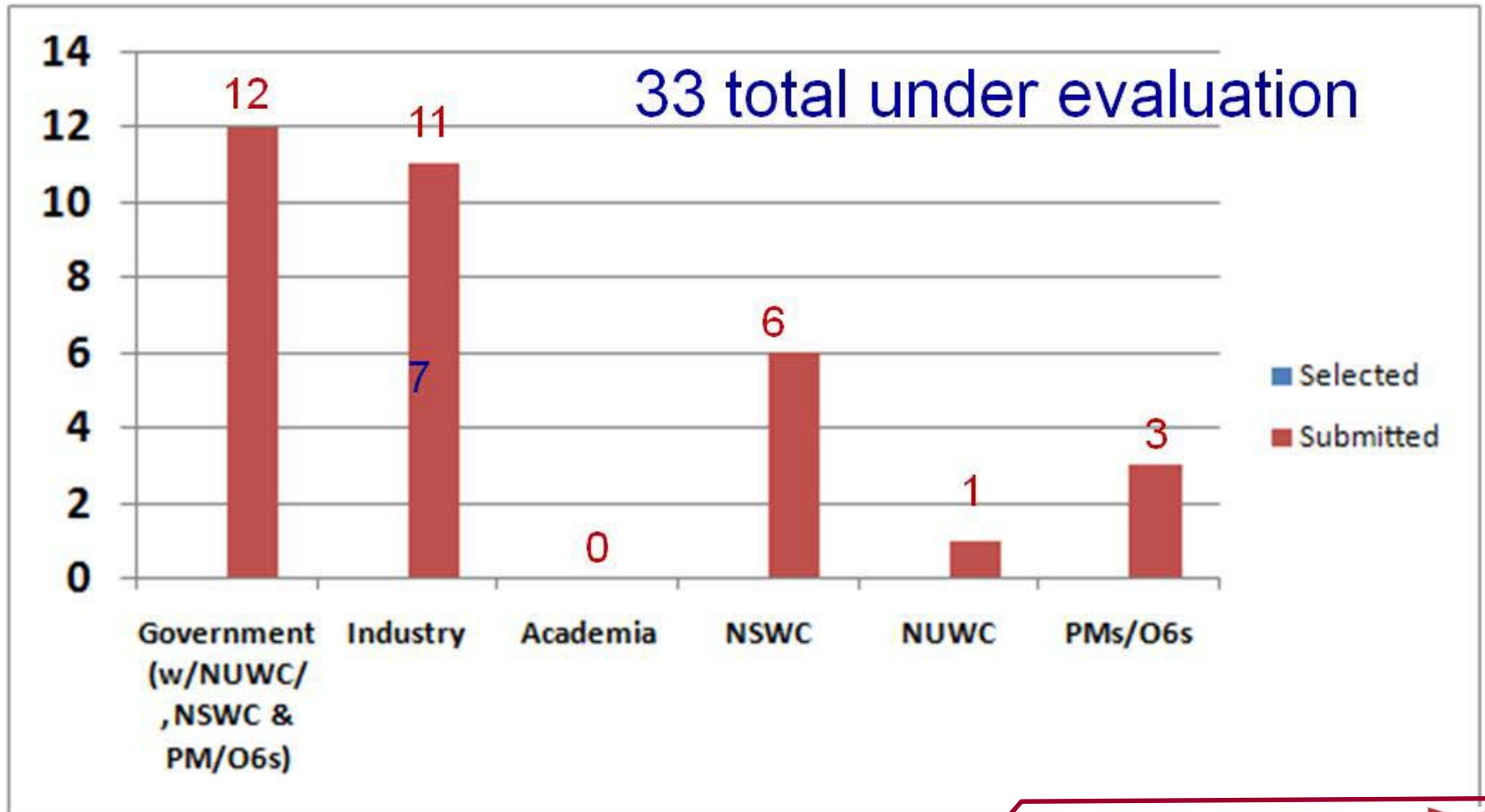
# Undersea Warfare Vehicles Committee Report

- Conference agenda
  - Abstract submissions very good in the end
  - Program/Senior Manager Presentations
    - Tech Plenary - CAPT Duane Ashton (PMS406), CAPT Kearney (PMS404)
    - Tech Sessions - CAPT Knapp (PMS415)
  - Technical Committee Meeting – Wednesday (30 Mar) at Lunch
  - Paper Selection Process
- UMS Technology Study
  - Will discuss status with CAPT Ashton
  - Preparing a NDIA-only version for NDIA distribution

# Program Selection Vehicles Technical Categories

- ***Unmanned Vehicles***
  - UxV
    - USVs
    - Submarine-Launched UAVs
  - UUVs
    - Operations
    - Systems (individual non-power)
    - Power Systems
    - Programs (POR and other formal programs)
    - Command & Control and Autonomy
    - Theory
- ***Undersea Weapons***
- ***Undersea Defensive Systems***
- ***Large Hull Systems***
  - Larger than LDUUV
  - Large Hull HM&E

# Spring 2011 Vehicles Abstracts



# **C4I & Combat Systems Committee**

**Paul Rosbolt, Chairman**

**Bob Zarnich, Deputy Chairman**

**Joe Natale, Senior Member**

**CAPT Charles Davis, PEO IWS-5, Liaison**

# C4I & Combat Systems Committee Report

- 20 Abstracts received for C4I session
  - Includes 1 PMW 150, 1 PMW 160, 3 PMW 170, 2 SSC San Diego
  - Good response based on push From RDML Burroughs
- 7 Abstracts received for Combat Systems—mainly PEO IWS
  - PMS 425 has decided to focus on Clam Bake only
- Tech Plenary Speakers CAPT Davis (accepted) and CAPT San Pedro (PMW770) (Invited)
- Recommend we retain separate C4I session for subsequent Spring Conferences