

**Undersea Warfare Division
Executive Board Meeting
January 14, 2009
Prior to Roundtable Meeting
2461 Clark St
11th Floor (Raytheon)
Crystal City, VA**

Agenda

- Chairman's Topics – Bruce Spear
- Action Item Review – Rick Udicious
- Committee Reports:
 - Fall Conference – Paul Normand
 - Spring Conference – Wayne Jakubowski
 - Undersea Sensors – Jose Rio
 - Mine Warfare – Eric Holmes
 - Undersea Warfare Vehicles – Rich Talipsky
 - Aviation USW – Dave Nelson
 - C4I & Combat Systems – Paul Rosbolt
 - Publications – Tom Dion
 - Awards – Bob Kittredge
 - Academic Fellowship – Chuck Zentner
 - Roundtable – Mike Sharp
- Advisory Council Remarks – Ron McKenzie
- Vice Chairman Remarks – Jim Fitzgerald



Chairman's Topics

Bruce Spear

State of the Division

- 2008
 - Conferences
 - Spring and Fall Conferences achieved high attendance and given high marks
 - Studies
 - Communications Management in Support of Anti-Submarine Warfare Common Tactical Picture
 - Underwater IED Study
 - State of Practice in Unmanned Systems Study
 - Awards
 - Spring – Presented 4 awards
 - Fall – Presented 6 technical achievement awards
 - Scholarships – We presented 3 awards of \$6K each
 - Board Meetings/Roundtables – Conducted 4 meetings in accordance with the bylaws

Looking Forward

- 2009
 - Conferences – Conduct a spring and a fall conference
 - Studies – Continue the 2 studies started in 2008 and investigate starting at least 2 additional studies
 - Awards – Present 4 awards at the spring conference and some number at the fall conference
 - Scholarships – Present 3 \$6K scholarships
 - Board Meetings/Roundtables – Conduct meetings in accordance with the bylaws
 - Fleet visit – Investigate re-starting fleet visits

Biennial Report

- The Deputy Chair will cause a Report of UWD Activity to be prepared every two years for delivery to the Secretary of the Navy.
- The Report shall include a forwarding letter of endorsement from the President, NDIA
 - “an introductory statement by the Division Chair; a summary of each approved UWD study completed for the Navy sponsor during the period of the Report, and other topics as deemed appropriate by the Division Chair. ”

State of the Industry

- Briefing to Navy Leadership
- Summary slide of the State of the Industry for comment



DRAFT State of the USW Industry

Requirements	USW Threats NOT Driving R&D; Acquisition Guidance Unclear on USW Objectives	
Budgeting	Without Cold War Threat, USW Priority and Funding Does Not Support the Industrial Base	
Vitality & Capacity	Industrial Base Size, Stability and Perishable Skills Greatly Diminished and Decreasing	
Research	Industry R&D Reduced; Navy R&D Pushed to Labs, Fractionated and Lacking Focus	
Technology	COTS Limited in Utility and Application to USW; Open Architecture Key to Affordable Solutions	
Business Environment	Industry Profits from R&D, Integration and Support; Industry Struggling	
Operation & Support	Littorals Stress Operators: Lower Budgets Demands Capability w/ Low Cost of Ownership	

REQUEST YOUR COMMENTS BY COB JAN 17

Election of Board Members

- Election of Board members is proscribed by our bylaws to take place at our spring meeting in conjunction with the Spring Conference
- I will be proposing to our nominating committee to not continue a number of members whose term is expiring and others who have not participated in meetings during the past 2 years

Action Item Review from Last Meeting

- ✓ Bruce Spear reviewed membership roster; action to delete John Holmes and Ken Jensen due to recent changes in their jobs and geographies.
- ✓ Rick Udicious will send board and advisor council members an email to verify contact information and obtain biography information.
- Discussion of pre-clambake reception at Nautilus Museum: Bruce Spear and Paul Normand to review procedure and make recommendation whether NDIA or industry sponsors to supplement expense. This year's event was partially sponsored by GD due to last minute request and decision by Paul Normand to obtain corporate donation.
- Theme inputs are solicited for the 2009 Spring and Fall conferences ("King Has No Clothes" already considered).
- ✓ Discussion of award nominees: If there is sufficient rationale for posthumous award ICO Chip Griffiths then need someone to take lead writing the justification and citation. Recently we have not seen a robust list of nominations, all members encouraged to review the criteria and submit to Bob Kittredge.
- ✓ Discussion of next roundtable(s): Consensus to ask Jerry Ellis to discuss recent study on ASW (Mike Sharp action).
- ☐ RSVP'S RAMAIN AN ISSUE ... SPEAKER DINNER, AWARDS, ETC!
- Review of Division Bylaws led by Ron McKenzie (Bruce to post the existing version of the bylaws to the division website): Motion to change bylaws and remove term limit for vice chairman was approved.
- ✓ Consensus that no changes required for term limits and composition of executive and advisory boards.
- Decision to draft biennial report and submit in timely manner to be available for next QDR input (action Rick Udicious).
- ✓ Motion to add Expeditionary Warfare to bylaws approved.

FYI ... NAVY SETTLES LAWSUIT OVER WHALES AND ITS USE OF SONAR

The Navy has settled a lawsuit filed by environmentalists challenging its use of sonar in hundreds of exercises. The Navy said Saturday that the deal reached with the Natural Resources Defense Council and other groups required it to continue to research how sonar affected whales and other marine mammals. It does not require sailors to adopt additional measures to protect the animals when they use sonar. The agreement comes one month after the Supreme Court ruled in favor of the Navy in another sonar lawsuit the council had filed. The council and five other plaintiffs sought a court order to curb midfrequency sonar, the Navy's preferred method for detecting enemy submarines, on the grounds the sonar disturbs and sometimes kills whales and dolphins. Federal courts in California and Hawaii have ruled in favor of the council and other environmental groups, and ordered the Navy to restrict its use of sonar to protect the animals. But last month, in a ruling on a council lawsuit challenging the Navy's sonar training exercises off Southern California, the Supreme Court ruled that military training trumped protecting whales. Chief Justice Roberts wrote that forcing the Navy to deploy an inadequately trained antisubmarine fleet would jeopardize the safety of the fleet. He also wrote that it was unclear how many marine mammals the Navy's sonar exercises might harm. The Navy acknowledges that sonar may harm marine mammals but says it takes steps to protect whales. It says more research needs to be done to better understand how sonar affects whales before it adopts additional protective measures. The Pacific Fleet has made antisubmarine warfare a top priority as more countries, including North Korea, Iran and China, have acquired quiet diesel-electric submarines that are increasingly difficult to track. (New York Times – 12/29)

The background of the slide is a faded, light blue image of a submarine fleet. Several submarines are visible, moving from left to right across the frame. The largest submarine is in the foreground on the right, with its conning tower and various antennas clearly visible. Other smaller submarines are visible in the distance to the left and center.

Joint Undersea Warfare Fall Conference

**Paul Normand
Conference Chair**

Joint Undersea Warfare Conference

**Theme: 2009 Working
Fall 2008 Conference**

- **1002 Attendees**
- **42% Government 58% Civilian**

**Considered by most as very successful
Interest to have Industry on plenary agenda
Looking for candid feedback from the Board
Week of 21 SEP 2009 for next clambake**



Spring 2009 Conference
March 9-12, 2009
Hyatt Islandia

Wayne Jakubowski
Conference Chair

Conference Update

- 2009 Theme – USW Technology, Training, and Tactics Supporting Forward Presence, Deterrence, Sea Control, and Power Projection
- Key Note Speaker Goal – CNO
 - Will be considered mid next week at CNO's long range planning meeting
 - YNCS Ross (Scheduler) working this for us
 - VADM (Ret) Jim Fitzgerald has spoken with CNO
 - Will be on West Coast during this time

Conference Conflicts

- Conference Schedule Change landed on SUBFOR Flag Training Conference
 - Sub Flags in Hawaii starting 9 March
 - Commanders Conference – 10 March
- SPAWAR Executive Offsite in New Orleans
 - Starting 9 Mar
 - RDML Bachmann at ONR for a Retirement

Conference Area Coverage

- Keynote – CNO (Working)
- Operations – Two Pac CO's
- Surface – VADM's Curtis/Locklear
- Air – VADM Venlet
- PEOs – LMW, IWS, Subs (404/450)
- Pentagon – N8, N86
- LABS – Don McCormack/RDML Shannon
- FLTASWCOM – SES Replacement for Drennan
- Intel – DIA/Other – (Working)
- Other – VADM Starling (NETWARCOM) (Working)

Conference Draft Agenda

- | | | |
|-------|-----------------------|-----------------|
| 8:00 | Call to Order/Welcome | B. Spears |
| 8:10 | Introduction | J. Fitzgerald |
| 8:15 | Key Note Speaker | CNO |
| 8:45 | PACFLT
Curtis | VADM |
| 9:15 | Third Fleet | VADM Locklear |
| 9:45 | NAVAIR
Venlet | VADM |
| 10:15 | N8 | VADM McCullough |
| 10:45 | Break | |

Conference Draft Agenda

11:10	COMNAVNETWARCOM	VADM Starling
11:40	N86	RDML Guillory
12:10	Awards Presentation	
12:30	Lunch	
1:40	Introductions	
1:45	COMNAVSURFWARCTR	RDML Shannon
2:15	FLTASWCOM	RDML Girrier/SES
2:45	DIA	TBD

Conference Draft Agenda

3:15 PEO IWS

RDML Benedict

3:45 PEO LMW

Ms Ann Sandel

4:15 PEO Subs

D. Miskimens

4:45 Undersea Weapons

Capt Wears

5:00 CO Operational Brief

TBD

5:30 Adjourn

Conference Preparation

- Abstract deadline extended to JAN 23
- Committee chairs agreed to commit agendas by FEB 3 (submit to Angie)
- Kim turnover to Angie:

Angie DeKleine

Associate Director

NDIA

2111 Wilson Blvd, . Suite 400

Arlington, VA 22201

adekeine@ndia.org

Undersea Sensors Committee

Jose Rio, Chairman

J. Keil, Deputy Chairman

CAPT R. Nicklas, Liaison

T. Kazmar, Liaison

Undersea Sensors Committee

Committee Report

- **Abstracts are slow coming in.**
 - The Sensors committee has received only three submissions so far.
 - There are another two or three that are coming from Lockheed Martin.
- **Expect a deluge of abstracts on the current deadline of 9 January.**
 - Still think it is a good idea to do as we have done in the past few years and move the deadline to say 28 January.
 - In the past when we have done this abstracts have continued to trickle in even past the reset deadline.
- **Want to hold the Technical Committee Meeting Wednesday at lunch.**

Mine Warfare Committee

Eric Holmes, Chairman

Bill Key, Deputy Chairman

Gary Humes, Liaison

14 January 2009

Spring Conference Status

- Building off successful 3rd full session Clambake
- 13 Abstracts received as of 1/10/09; numerous pending
 - Specific abstract requests made to PEO-LMW PMOs, N85, NMAWC, NSWC (Panama City), and MIW committee members
- Committee meeting during technical session lunch
- Looking for new Liaison; Gary Humes departing PMS495
- Continuation of U-IED study
- Recommendations
 - Integrated Prioritized Capabilities List (IPCL); both MIW and ASW at the Plenary Session

UWIED Study Status

- On-going; being reinvigorated after change in personnel
 - Study lead; WG chairmen; NMAWC POCs
- Working Group Summary:
 - WG1: Strategy, Policy & Agency Context; deputy chair Marvin Heinze
 - WG2: Threat & Domestic UWIED Requirements; chair Lee Hunt; report completed, provided as input to WG3
 - WG3: Current Capabilities & Gaps; chair RADM (USN, Ret) Rick Williams; strawman report the first week of February
 - WG4: Assess Alternative Counter-UWIED Concepts chair Tom Casey

UWIED Study Status

- Interest level is still high
- Upcoming Events:
 - Strawman Report from WG #3
 - Teleconference for Steering Committee and WG chairs
 - Face to Face discussions at Spring Conference
- Schedule:
 - 3-4 months behind schedule (estimated)
 - Final Briefing/Report to NMAWC: June 2009

Undersea Warfare Vehicles Committee

Rich Talipsky, Chairman

Tom Sherman, Deputy Chair

Navy Liaison, Jim Griffin, NUWC, Newport

Undersea Warfare Vehicles Committee Report

- **Conference agenda**
 - slate of technical papers (evaluating abstracts)
 - Expect CAPT Siegrist (PMS-403), CAPT Wears (PMS-404) and Pete Perry (PMS-415) to present.
 - Technical Committee Meeting – Wednesday at Lunch
- **New Technical Committee Liaison**
 - Jim Griffin, Head, AUV Department at NUWC
 - Looking for Navy Liaison from NCR

Study Topic

Unmanned Maritime Systems Technology

- Sponsor: CAPT Siegrist (PMS-403), TOR signed
- Draft Findings Report – March NDIA Conference
- Tasks:
 - Examine whether there are significant advances in the “state of practice” in UUV technology since last UUV Master Plan.
 - Concentrate on:
 - Vehicle Autonomy
 - High-Bandwidth Communications
 - Electromagnetic Sensors
 - Open Architecture
 - Hull Materials
 - Define technology advances that support a plan to incrementally enhance existing systems.

Study Topic

Unmanned Maritime Systems Technology

- Study Chair – Jeff Smith – Bluefin Robotics

- Team Members

- Mark Bock Argon ST
- John Brandes Lockheed Martin
- Steve Castelin NSWC - Panama City
- David Chadoir Hamilton Sundstrand - Marine Systems
- John Cochran Raytheon Integrated Defense Systems
- Chris Egan NUWC – Newport
- Mike Fry NG - Newport News
- Dan Gietzen GD - Electric Boat
- Tom Jones Boeing
- John Lademan Northrop Grumman
- Alexandra Paige Legnos GD - Electric Boat
- Lonnie Lucas Arete
- Jim Paiva Advanced Solutions for Tomorrow, Inc (ASFT)
- Joel Parry Draper Labs
- Rich Snead Oak Ridge National Labs
- Chris Taggart GD - AIS
- Rich Talipsky SEA CORP
- Dr. Jeffrey J. Weinschenk ARL Penn State

Aviation USW Committee

Dave Nelson, Chairman

Max Norgart, Deputy Chairman

CAPT Larry Pugh (PMA-264), Liaison

14 January 2009

Aviation USW Committee

- Clambake '08
 - Broad agenda with a good mix of material
 - PMA's provided comprehensive platform status – both legacy and emerging
 - Active acoustic sensors
 - Distributed multistatic system processing
 - Non-Acoustic and environmental sensing technologies
 - Going to touch on unmanned airborne systems
- Spring Conference
 - Slow abstract influx
 - Expect PMA's to continue excellent participation
 - “Netted Distributed Systems” seem to be doing ok in POM-10
 - UAV community taking on a new dimension (BAMS)
 - Will see if it became a “bill payer” in POM-10
 - High altitude CONOPS (sensors/weapons)
 - TacMobile has become center piece for MPRF comms

C4I & Combat Systems Committee

Paul Rosbolt, Chairman

Bob Zarnich, Deputy Chairman

CAPT Charles Davis, Liaison

C4I & Combat Systems Report

- Under new management!
- Spring Conference Abstract review in progress
 - Only 5 received to date. Am working with navy Liaison and individual PM's to increase the numbers.
 - CPF/NMAWC committed to briefs
- ASW Common Tactical Picture Study
 - Jim Thompson Study lead
 - ASW CTP Comms brief to the OPNAV N874 18Sep

C4I & Combat Systems Report (2)

- PEO IWS Architecture Description Document Review
 - CAPT Davis requested C4I & CS committee to conduct a summer study to assess the impact of PEO IWS draft surface ship combat system ADD on USW systems
 - Paul Rosbolt Study Chair. Eric Nelson (IBM)/Bob Zarnich (Metron) Deputy Chairs
 - Draft brief-out at C4I/CS committee meeting 8Sep08
 - Final product in internal review; anticipate completion/final brief-out in early Feb09

A faded, light blue background image of a large ship, possibly a naval vessel or a large cargo ship, at sea. The ship is viewed from a distance, showing its complex superstructure with various masts, antennas, and radar equipment. The ship is moving through the water, leaving a wake. The overall tone is light and professional.

Publications

Tom Dion, Committee Chair

Spring '09 Awards

Bob Kittredge, Awards

Executive Board Meeting

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Awards Committee Spring '09 Report

- Received several nominations for each Award:
 - Martell-Bushnell: 3 nominees, 1 re-cycled
 - Weakley: 5 nominees, 1 re-cycled
 - Thanks to all of you (22) who responded !!
 - 30 missing responses
- Letters for Fall Bronze Award nominations will be sent to all activities on 15 Jan.

Spring '09 Awards

- Award recipients unanimously selected :
 - Vadm Martell-Bushnell: Dr. Ira Dyer, MIT
 - Vadm Weakley: Mr. Richard R. McNamara
 - Capt. G. Ringenberg: To Be Announced @
Speakers Dinner
 - Radm Jack Jarabak / NDIA Award for
Excellence in USW Technology:
LT David E. Hudson, USN

Academic Fellowship

Chuck Zentner, Fellowship Chair

14 January 2009

NDIA USD Fellowship Committee Report

- The established NDIA fellowship approach was followed for the 2008-2009 academic year:
 - the stipend was established at \$6,000 per year at each university for the 2008-2009 academic year per the Executive Board direction at the 28 April 2008 meeting
 - the universities have expressed their appreciation for the generous support of the NDIA
 - unfortunately and due to poor market performance, proceeds for the past quarter have been negative (\$-37,944)

Academic Fellowship Fund Status

- 21 June 2007 \$244,105
- 4 September 2007 \$240,884
- 22 February 2008 \$235,122
- 22 July 2008 \$234,456
- 4 September 2008 \$233,247
- 7 January 2009 \$195,303
- Losses for the period 4 September 2008 to 7 January 2009 are \$37,944 (-16.34%)
- A 4% return on the 7 Jan amount would yield \$7,812

Current market slump has cut into our principal.

Funding for 2008-2009 Academic Year

- Recommendation - fund the Fellowship as follows:
 - \$18,000 from conference fees as we did last year
 - Hope that the economy improves so that we can return to partially funding through Fellowship fund proceeds

NDIA Fellowship Award Recipients 2008-2009 Academic Year

- The Pennsylvania State University
 - **Cara Hotchkin**; PhD candidate in Ecology; behavioral ecology and bioacoustics of the marine environment
- University of Texas
 - **David Wick**; PhD candidate in Curriculum Studies; development training for ASW active sonar systems in the fleet
- University of Washington
 - **David Dall'Osto**; PhD candidate in Mechanical Engineering; underwater acoustic data analysis

These are excellent students with great academic credentials.

Donations to the Fellowship

- During a telcon on 8 January 2009, Rick Udicious suggested that some individuals or corporations may be willing to contribute to the Fellowship Program
- The Fellowship took an action to determine the tax aspects of such contributions
- NDIA Headquarters has replied to Bruce Roulstone on the subject

Continue with discussion of tax status for contributions.

Roundtable Meeting

Mike Sharp
Roundtable Executive



**Rear Admiral Frank M. Drennan
Commander, Naval Mine &
Anti-Submarine Warfare Command**

Rear Admiral Frank M. Drennan is the Commander, Naval Mine and Anti-Submarine Warfare Command, headquartered at Naval Base Point Loma, Naval Mine and Anti-Submarine Warfare Command Complex, San Diego, California. NMAWC functions as the War Fighting Center of Excellence for Mine and Anti-Submarine Warfare by focusing efforts across numerous resource sponsors, systems commands, research labs and operational commands to ensure supremacy in Mine Warfare and ASW.

A native of Elberton, Ga., Rear Adm. Drennan graduated in 1976 from the U.S. Naval Academy with a Bachelor of Science degree in Aerospace Engineering. Prior to command, he served at sea in *USS James Madison* (SSBN 627), *USS Birmingham* (SSN 695), and *USS Louisville* (SSN 724). He served ashore on the staffs of COMSUBRON 16, COMSUBPAC, Naval Submarine School, OPNAV, and the Joint Staff.

Rear Adm. Drennan commanded *USS Portsmouth* (SSN 707) from August 1992 to March 1995. During his tour, *Portsmouth* was awarded the Submarine Squadron Three Battle Efficiency "E" for excellence in combat readiness and all-around ship's operations, as well as the Engineering "Red E" and the Supply "Blue E" departmental awards.

Rear Adm. Drennan commanded Submarine Squadron Six from August 1999 to August 2001. From January to June 2000, he carried out additional duties as the Undersea Warfare Commander for Commander, *George Washington* Battle Group on the staff of Commander, Cruiser/Destroyer Group Two.

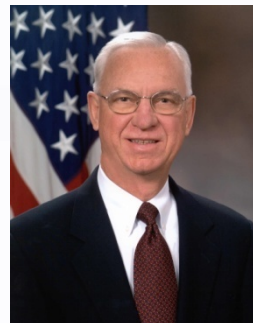
Following selection for flag rank, he served at U.S. Strategic Command as Director for Strike Plans, Director for Information Operations, and Deputy Commander for Space and Global Strike Component Command.

Rear Adm. Drennan took command of Submarine Group 9 in June 2005. In June 2006, he assumed additional duties as Commander, Submarine Group 10 to form Submarine Group Trident, serving as its first Commander until November 2007.

Rear Adm. Drennan holds a Master of Science degree in Engineering Management from the Catholic University of America and is a graduate of the Harvard Business School Advanced Management Program.

Rear Adm. Drennan is a U.S. Pacific Fleet recipient of the James Bond Stockdale Award for Inspirational Leadership during his command of *USS Portsmouth*. He also received the David Lloyd Award for excellence in leadership during the Submarine Officer Advance Course. He is entitled to wear the Defense Superior Service Medal, Legion of Merit (six awards), the Meritorious Service Medal, the Navy Commendation Medal (five awards), and the Navy Achievement Medal.

Updated: 25 Jan 2008



Winford G. (Jerry) Ellis
Rear Admiral, U. S. Navy (Retired)
Senior Executive Service

Rear Admiral W. G. "Jerry" Ellis, U.S. Navy (Ret.), was selected in March 2007 as the Special Assistant for Undersea Strategy, in the Office of the Secretary of the Navy. As such, he is the senior advisor to the Secretary of the Navy for policy relating to the Department of the Navy's Undersea Strategy.

After 36 years of active duty, Rear Admiral Ellis retired and entered the Senior Executive Service in June 2000, continuing on as the Director of the Deep Submergence Program and Director, Defense Liaison Division. In that position he served as the CNO's principal advisor on Submarine Rescue, Deep Submergence Vehicles, and Deep Diving Operations.

Rear Admiral Ellis attended Georgia Tech for one year before attending the U.S. Naval Academy, graduating with distinction in 1964. A career nuclear submariner, Rear Admiral Ellis served aboard the submarines USS Catfish (SS 339), USS Snook (SSN 592), USS Billfish (SSN 676), and USS Andrew Jackson (SSBN 619). He commanded USS Ulysses S. Grant (SSBN 631) conducting missile patrols out of Holy Loch, Scotland. In addition, he was the first Commanding Officer of USS City of Corpus Christi (SSN 705). He also commanded Submarine Squadron Six, which included a submarine tender and ten attack submarines. While assigned as the Chief of Staff for Commander Submarine Force U.S. Atlantic Fleet, he was selected for Flag Rank. As a Flag Officer, he served as Commander Submarine Group Ten, which consisted of all strategic submarines in the Atlantic Fleet. His final sea assignment was command of the U.S. Pacific Fleet Submarine Force.

Ashore, Rear Admiral Ellis served as the Director of the Enlisted Nuclear Power School in Mare Island, California. Later, as a Captain, he was the Head Detailer for all enlisted submariners and nuclear trained personnel in the Bureau of Naval Personnel. Following this, he was the Senior Member of the Atlantic Fleet's Nuclear Propulsion Examining Board charged with inspecting and ensuring the safety of all nuclear powered ships and submarines in the Atlantic. His first tour as a Flag Officer was as the Deputy Assistant Secretary for Military Application in the Department of Energy. This was accomplished during a period of great change to the Nation's Nuclear Weapons Program. In addition, Rear Admiral Ellis has also served as the Oceanographer of the Navy and as Director Navy Special Programs.

Rear Admiral Ellis' personal decorations include the Defense Distinguished Service Medal, the Navy Distinguished Service Medal (two awards), the Legion of Merit (five awards), the Meritorious Service Medal (three awards), the Navy and Marine Corps Commendation Medal, the Navy and Marine Corps Achievement Medal, and various service and campaign awards. As a Senior Executive, he was awarded the Meritorious Senior Executive Presidential Rank Award for 2004. In June, 2007, Rear Admiral Ellis was presented the National Intelligence Distinguished Service Medal, the Nation's highest award for Intelligence.

During his career, Rear Admiral Ellis earned a Masters Degree from Sloan School of Management at MIT as a Chief of Naval Operations Scholar. He has also attended the Naval War College and many other executive-level courses. He serves on the Board of Directors of the Naval Submarine League and is a National Director for the Navy League of the United States. In addition, he is a former Chairman of the Board of Trustees for the Georgia Tech Research Corporation and the Georgia Tech Applied Research Corporation.

Rear Admiral Ellis and his wife, Rosemary, live in Alexandria, Virginia. Rosemary is the Project Director for the Naval Services Familyline COMPASS Program, a spouse education and mentoring program for Navy, Marine Corps, and Coast Guard personnel. They have three children (Son – Kevin, married to Lisa; daughter - Karri, married to Terrill; and son – Chris). They are blessed with four grandchildren – Brenna, Camden and Cooper (Twins), and Harper.

Summer 2009 Roundtable

A large submarine is shown on the surface of the ocean, viewed from a distance. The submarine is dark in color and has a complex superstructure with various masts and antennas. The water is a light blue color, and the sky is a pale, hazy blue.

- Guest Ideas
 - Ann Sandel – PEO LMW
 - Willy Hilarides – PEO SUBs
 - ADM Willard – COMPACFLT
 - Jay Donnelly - SUBFOR
 - Ideas from members?
- Location
 - DC, Hawaii, Norfolk?

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- A faded, light blue background image showing a fleet of several large ships, likely naval vessels, sailing on the ocean. The ships are arranged in a line, with the largest one in the foreground on the right side. The image is semi-transparent, allowing the text to be clearly visible over it.
- Advisory Council Remarks
 - Vice Chairman Remarks