

## MINUTES OF THE USSVI NORTHERN VIRGINIA BASE MEETING HELD ON SATURDAY, November 10, 2018

The Base CDR, Chuck Martin, called the meeting to order at 1102 on November 10, 2018 at American Legion Post 162 in Lorton, VA and welcomed all members and guests. New Base member Joe Castell introduced himself. He qualified on the USS Mariano G Vallejo in 1978, and his son wears his dolphin pin and serves on the USS Tennessee today. Gary Grimes introduced himself. He qualified on the USS Diodon (SS-349), transitioned to an officer through the NESEP program, and became a supply corps officer. Both Gary and Brian Haller attended the same college (Miami of Ohio) at the same time and then became gold dolphin-wearing supply corps officers.

### MEMBERS AND GUESTS IN ATTENDANCE

CAPT Keith Baravik (guest speaker), Steve Bishop, Debbie Bishop, Art Bivens, Joe Castell (new member), Cathy Chatham, Howard Chatham, Delbert Ennis, Linda Ennis, Anthony Ennis, Bob Glover, Gary Grimes, Brian Haller, Pat Haller, Steve Jaeger, Chuck Martin, Ed Mattran, Michael Niblack, Tim Oliver, Willie Petruy, Mark Riethmeier, Mike Varone, and Woody Woodworth (23 total)

 Holland Club Member

 Associate Member

 Guest

The Base COB, Mike Varone, led all hands in the Pledge of Allegiance.

The Base Chaplain, Steve Jaeger, delivered the Invocation.

After a moment of silence, the Base Treasurer read the list of boats lost in the month of November. These were:

USS Albacore (SS-218)	Nov 7, 1944
USS Growler (SS-215)	Nov 8, 1944
USS Scamp (SS-277)	Nov 16, 1944
USS Corvina (SS-226)	Nov 16, 1943
USS Sculpin (SS-191)	Nov 19, 1943

The COB then tolled the ship's bell twice in Remembrance of the 25 USSVI NOVA Base members on Eternal Patrol.

### IN MEMORIUM:

EMC(SS) Paul Casavant, USN, Ret. – 9/1/2018

### BASE HISTORIAN

Woody Woodworth read the Presidential Unit Citation for the 2<sup>nd</sup>, 3<sup>rd</sup>, 8<sup>th</sup>, and 9<sup>th</sup> War Patrols of USS Albacore (SS-218):

“For extraordinary heroism in action against enemy Japanese shipping and combatant units during her Second War Patrol in the New Guinea area; her Third War Patrol in the Admiralty Islands area; her Eighth War Patrol north of the Bismarck Archipelago area and her Ninth War Patrol west of the Marianas. By aggressive and tenacious area coverage, the USS ALBACORE made contact on a speeding major enemy task force and, defying numerous destroyers and hostile aircraft which screened the valuable Fleet units on every quarter and the inevitable countermeasures, pressed home her attack, Brilliantly maneuvering between the menacing

escorts to reach the center of the powerful group, the ALBACORE, despite a last minute breakdown of vital fire control equipment, launched her torpedoes and demolished a 29,800 ton aircraft carrier. Skillfully evading severe counterattacks, this gallant fighting ship returned to inflict further crippling blows against the enemy by sinking seven ships, including a light cruiser and two destroyers, for a total of nearly 50,000 tons. The courage and steadfast devotion to duty of the ALBACORE's valiant officers and men are reflected in this outstanding combat record and are keeping with the highest traditions of the United States Naval Service."

## MEETING MINUTES

The minutes of the October 2018 meeting were previously distributed by e-mail. There were no comments or corrections and they were accepted as presented.

## TREASURER'S REPORT

The Base Treasurer, Steve Jaeger, reported:

• Beginning Cash on Hand	\$ 7,860.26
• Receipts:	\$ 470.68
• 2019 Annual Dues (National and Base)	
• Donations-Base	
• Donations-Charitable Foundation	
• Interest/Dividends	
• Revenue-Sale of Items	
• Revenue-Raffles (50/50)	
• Expenditures:	\$ 317.37
• Base Meeting Expenses	
• 2019 Dues to National	
• Ending Sub-Total	\$ 8,013.57
• Minus Remaining Walmart Grant rest. use funds	(\$1,169.40)
• Grand Total (Discretionary)	\$ 6,844.17
• NOVA USSVICF K4K Total:	\$ 922.44

The Treasurer's report was accepted as presented.

## COMMITTEE REPORTS

**EXECUTIVE BOARD** The Board of Directors did not meet due to the 2018 Annual Convention Cruise in progress.

**VCDR** Nothing to Report (NTR)

## CHIEF OF THE BOAT

Mike Varone reported that he met with his former state delegate Rich Anderson about getting a bridge or road named for USSVI in northern Virginia. Rich has been working with current state delegate Tim Hugo on this matter. Mr. Anderson assured Mike that if Del. Hugo's plate is full for the coming legislative season, there are others, many vets, who will take up our request.

## **MEMBERSHIP**

Steve Jaeger reported that the Base has 80 members, consisting of:

- 41 Holland Club members, of which 3 are WW II members,
- 30 Regular members, and
- 9 Associate members.

The Treasurer reminded all that both 2019 Base and National dues are due by December 31, 2018. Base dues are \$15 per year, and National dues are now \$25 per year for members and associates.

## **PAO NTR**

## **VETERANS AFFAIRS**

TRICARE Health Benefits and Federal Employees Dental and Vision Insurance Program (FEDVIP) open season for enrolling is from Nov 12 through Dec 10.

- For TRICARE Open Season information visit <https://tricare.mil/openseason>
- For FEDVIP information visit <https://www.tricare.benefeds.com/InfoPortal/indexAction>
- For Dental there are 13 plans available locally with cost ranging from \$16.81 (Self only) to \$161.87 (Entire family) per month
- For Vision there are 8 plans available locally with cost ranging from \$6.70 (self only) to \$43.38 (Entire family) per month.

## **STOREKEEPER**

Howard Chatham reported that:

- He is taking orders for 2019 USSVI Calendars. The calendar theme for 2019 is "Submarine Squadrons of the Atlantic Fleet". Deliveries will begin several weeks after our orders are submitted.
- He also has several submarine stickers and multiple USSVI NOVA Base patches
- He and Cathy had seen the road sign for the "Submarine Veterans Memorial Highway" in Florida during their recent trip home from the 2018 convention cruise.

## **WEBMASTER - NTR**

**K4K** –Steve Bishop reported that:

- Our most recent visit was to
  - INOVA Children Hospital in Falls Church, VA on October 10, 2018.
- Our next visit is to :
  - Walter Reed National Military Medical Center in Bethesda, MD, on Thursday, November 15, 2018 at 10:30 AM. Contact Steve Bishop at 703-895-8137 if you would like to join them. (Post meeting update – this trip was cancelled due to the first snow/ice storm of the season and the need to cross the icy American Legion Bridge.) We have now seen 80 K4K children and families bedside in 2018, and a total of 516 since 2010.

## **SCOUTING COORDINATOR - Chuck Martin reported that:**

- Recent Eagle Scout Court of Honors: Eagle Scout Connor Given was held on Friday October 19, 2018 in Gainesville, VA.
- Upcoming Eagle Scout Court of Honors: None.

## **NJROTC/SCHOOL PROGRAM COORDINATOR - NTR**

### **DISTRICT CDR - NTR.**

- Post meeting comment: Our District Commander has resigned for personal reasons. If you would like to be nominated for this USSVI leadership position, contact Chuck Martin. (See enclosure for more information)

## **SUBLEAGUE – Tim Oliver reported:**

- Upcoming NSL Events
  - 2019 Submarine Technology Symposium will be held May 14-16, 2019.
  - DC Area Submarine Community Fall Social will be held Friday November 16, 2018 at the Ft. Myer Officers Club. The admission fee is \$25/person. RSVP and payment information can be found at the link below, and we ask for your RSVP by 12 November.
  - <https://einvitations.afit.edu/inv/anim.cfm?i=416849&k=066044017F5E>
- NSL Library - We have increased our library space and would be grateful if all NSL and USSVI members who have written books, especially if they involve submarines, would send a complimentary copy to the office for the library. Autographed copies would be even more exciting! Our mailing address is 1737 King St., Suite 600, Alexandria, VA 22314.
- The Annual NSL Symposium was just held in Crystal City and was a great success.
- NSL is now conducting SUBCLUBS across the country where the namesake cities and states are supporting the crews of our active submarines e.g. Nebraska and Chicago.
- At each Submarine reunion where NSL is invited to speak, they present the reunion leadership with a submarine evolution poster developed from Tom Denton's artwork. The same picture is available for sale on the NSL website.

## **2019 NOVA BASE ELECTION**

- Ballots for the 2019 USSVI NOVA Base Elections will be distributed after the November meeting. Members have the option of voting electronically or by paper. Paper ballots will be available at the December meeting. Hard copy ballots must be received by the Election Master by 1100 on December 8, 2018. Ballots submitted electronically need to be received by 2359 on December 7, 2018. The 2019 Election Master is Brian Haller. The following positions will be on the ballot:
  - Base Commander
  - Base Vice Commander
  - Base Secretary

- Base Treasurer
- Current Nominees are:
  - Base Commander – Chuck Martin
  - Base Vice Commander – Brian Haller
  - Base Secretary – Steve Bishop
  - Base Treasurer – Steve Jaeger

## OLD BUSINESS

- ARIZONA SILENT SERVICE MEMORIAL PROJECT – Potential support includes purchase of pavers (4X8 - \$100, 3 lines; 8X8 - \$200, 6 lines) or sponsor a Lost Boat for \$500. To learn more about this project, please visit their website at [www.arizonasilentservicememorial.org](http://www.arizonasilentservicememorial.org)
- USSVI Scholarship Fundraiser – Frank Hood, Vice CDR of USSVI Marblehead Base has published a book titled "Poopie Suits and Cowboy Boots" that is about the day-to-day life aboard a US Navy submarine. All proceeds go to the USSVI Scholarship Fund. The cost for each book is \$25, and \$10 of that goes to the USSVI Charitable Foundation for the Scholarship Fund. At the Annual Convention it was revealed that \$11,400 has already been donated by Frank Hood.
- The 2018 USSVI National Convention Caribbean Cruise was a huge success.
  - The new USSVI website is very close to going on line, but will not be placed in service until all dues are collected for 2019 (end of February 2019).
  - The Immediate Past National Commander will be focusing his efforts on the USSVI Charitable Foundation going forward.
  - Future conventions will be in Austin, TX in 2019 and Phoenix, AZ in 2010.
  - Last year's convention in Orlando, FL lost \$65,000 for USSVI due to lower than expected member participation. We had to pay the hotel for contracted rooms and services that went un-filled.
  - USSVI is now accepting new associate members who are not veterans who served during a war-time period. Even though we as an organization have been gaining members at some 600 plus per year, we have been losing members at some 700 plus per year due to members going on Eternal Patrol. The USSVI leadership would rather grow as a 501 c (3) than shrink as a 501 c (19) organization.
- The premier of 'Hunter Killer' was Friday October 26, 2018 and it is now showing at a theater near you. The movie is based on the book, Firing Point, by George Wallace and Don Keith. You can watch the movie trailer at [https://www.youtube.com/watch?v=mnP\\_z3qXDCQ](https://www.youtube.com/watch?v=mnP_z3qXDCQ).

## NEW BUSINESS

- The 2018 Membership Survey has been emailed and a hard copy is on the table. Please complete and return to Chuck Martin by November 16 so your input can be considered/incorporated into the 2019 Base Calendar that will be presented for approval at the December meeting.
- This Veterans Day marks the 100th anniversary of the end of World War I. All members were encouraged to attend a local Veterans Day ceremony to honor and remember those who died in that conflict. All Members were invited to an extraordinary Falls Church

Veterans Day ceremony on Sunday, November 11, 2018 at the Veterans Memorial, in front of the Falls Church Community Center, 223 Little Falls St., starting at 11 a.m.

- David Gault, USSVI NOVA Member, is currently deployed overseas and responded to the urgent information request for care packages that the Base CDR sent out for Mark Riethmeier, another USSVI NOVA Base Member, on behalf of his friend Joan. David requested that his gratitude and thanks be relayed to the membership for the support to the Joan, Mark, and the Base. He has received three care packages so far. Mark Riethmeier's inputs:
  - His friend Joan Kalvaitis works for NIC Federal (and is a friend from Madigan's pub in Occoquan) . She was looking for a POC serving overseas in order to send "CARE" packages to him to distribute the contents among the troops.
  - Chuck Martin provided a contact via the USSVI Northeast Region Director Les Altschuler. That contact was David Gault, a NOVA Base member, who is deployed to Bagram Airbase, north of Kabul, AFG.
  - Joan and her staff sent 8 boxes containing about 50 pounds of home baked goods, plus letters from students to the troops from Lexington Park Elementary School in Maryland.



- Joan wanted to express her thanks to USSVI for their support in this effort.
- Upcoming submarine reunions include:
  - USS Sabalo (SS 302) – 11/11-14/2018; San Diego, CA
  - USS Jallao (SS 368) – 3/13-17/2019; Tuscumbia, AL

## LOST AND FOUND

Howard Chatham has found a DBF pin stuck in the sole of his shoe after the October meeting. It is not his pin, so if you have lost yours, contact Howard to claim your pin.



## **BINNACLE LIST**

### **“PLEASE KEEP THE FOLLOWING IN YOUR PRAYERS.**

Barbara Harmody, Tony Poblete, Ray Stone, Tom Perrault, Delbert Ennis, and Lorraine Sargent.”

### **FOR THE GOOD OF THE ORDER.**

**“BIRTHDAYS FOR THE MONTH ARE:** Rodey Batiza, Art Bivens, Francis McNamara, Dennis Mohr, Eva Waylett, and the United States Marine Corps.”

**The 50/50 raffle** winning ticket was drawn by our newest member, Joe Castell. . The winner was Woody Woodworth, who donated his winnings back to the base treasury. **THANK YOU,** Woody!

**THE NEXT REGULARLY SCHEDULED MEETING WILL BE ON DECEMBER 8<sup>TH</sup> AT AMERICAN LEGION POST 162. FOLLOWING THE MEETING, WE WILL HAVE OUR 2018 ANNUAL HOLIDAY LUNCHEON AT MADIGAN’S WATERFRONT RESTAURANT IN OCCOQUAN.**

The meeting was adjourned at 1215. We broke for five minutes before Chuck Martin introduced our guest speaker.

---

Base CDR Chuck Martin introduced our guest speaker.

## **CAPT Keith A. Baravik, USN**

### **Program Manager, Special Operations Forces Undersea Mobility (PMS399)**

CAPT Keith Baravik is a native of Muskegon, Michigan and graduated from the U.S. Naval Academy in 1997 with a Bachelor of Science in Systems Engineering, Old Dominion University in 2002 with a Masters in Engineering Management and Naval Postgraduate School in 2009 with a Masters of Science in Applied Physics and a Certificate in Systems Engineering.

He achieved Submarine Warfare Qualification while onboard the USS L. Mendel Rivers (SSN 686) where he served primarily as the Chemical and Radiological Controls Assistant (CRA) and Quality Assurance Officer (QAO). As a Submarine Warfare Officer he then completed a tour as an NROTC instructor at Virginia Polytechnic and State University (Virginia Tech) and was the Navigator for the USS Florida (SSGN 728) during her conversion from a SSBN to a SSGN.

Upon completion of his duties on the USS Florida he transferred to the Navy Engineering Duty Officer (EDO) community where he served as an Integrated Project Team (IPT) Program Manager for SPAWARSYSCEN Atlantic supporting the USTRANSCOM Joint Distribution Development Architecture Environment – Advanced (JDDA-E) from 2010 to 2012, Deputy for

NAVSEA 07 PMS 392D in support of submarine modification and alterations from 2012 to 2014, Valve Regulated Lead Acid (VRLA) Battery Project Officer from 2012 to 2014, AN/BLQ-10B Next Generation Architecture Project Officer for the Submarine Electromagnetic Systems Program Office (PMS435) from 2014 to 2016, and Urgent Requirements and Assessments Division Head for OPNAV N9I from 2016 to 2018. In August 2018, CDR Baravik assumed the responsibilities as Program Manager, Special Operations Forces Undersea Mobility Program Office (PMS 399).

His personal awards include the Meritorious Service Medal (three awards), Navy Commendation Medal (three awards), Navy Achievement Medal, and various other personal, unit and service awards.

-----  
As PMS 399, he and his program office act as the direct liaison between the Special Operations Forces (USSOCOM) and the Submarine Force.

There are 6 **Dry Deck Shelters (DDS)** in use today by the US Navy and his main job is the sustainment and modernization of these six DDS's. Each DDS has a lock out chamber and the host subs are VA Class (with a lock out trunk) and SSGN's and SSN's with an interface support system. A total of ten US subs can use these 6 DDS's, but they are not all interchangeable. The DDS payload varies between 12,000 pounds and 50,000 pounds. The payload deployment is entirely manual for all DDS's – both launch and recovery.

The outside dimensions of each DDS are about 18 feet long and 9 feet in diameter. A Swimmer Delivery Vehicle (SDV) is a mini sub that can exit the DDS and then go do its thing. Hot water suits and creature comfort suits help keep the SEALs drier and warmer when waiting inside the DDS to deploy.

SEALs have been operating from the SSGNs for years now and they very much enjoy the huge volumes afforded by the SSGNs to accommodate their gear. However, they are feeling a bit cramped aboard the newer VA class, so PMS 399 is looking for ways to stow the SEAL's gear for the missions within VLS tubes exterior to the hull, as well as adding on spheres to the rear of the DDS to create more volume topside.

In parallel with the submarine force developments, SOCOM is developing its own **Dry Combat Submersible (DCS)**, but it is not being built to submarine specifications. Lockheed Martin is building the DCS for WARCUM at FT Story / Little Creek VA. The DCS will never be mated to a submarine as long as it does not comply with submarine specs.

**The Mobile Anti-Submarine Training Target (MASTT) program** has developed a target that is bigger than the MK 30 target used for normal submarine torpedo training. It is operated in waters near San Diego and is used more by the surface ships and aviators home-ported there for



training. It is about 100 ft long and 12 feet in diameter and is used on a SOCAL range. It can be controlled by using underwater hydrophones on the range, or by using a pre-programmed course, depth, and speed run then a stop and surface for retrieval.

Again, he and his program office look at the seams between the SOF operators and the Submarine operators. What is possible on submarine platforms going forward? How can they get N97 (subs) and WARCOM (SOF) to work better together and fund programs together?

The CAPT entertained questions from the audience, then the Base Commander thanked the CAPT and presented him with a USSVI NOVA Base Challenge coin.



**Final reminder from Brian Haller and Steve Jaeger: your ballot and dues for 2019 are due at our December 8, 2018 meeting.**

Both photos above by Mark Riethmeier.

Meeting Minutes Respectfully Submitted by

Stephen C Bishop  
Secretary, USSVI Northern Virginia Base

Enclosures:

- Calendar of Events
- USSVI News and Other Submarine News
- Selected Undersea Warfare News Articles

## **Calendar of Events**

## **November**

### **12 November – 10 December – TRICARE Health Benefits and Federal Employees Dental and Vision Insurance Program (FEDVIP) Open Season.**

- For TRICARE Open Season information visit <https://tricare.mil/openseason>
- For FEDVIP information visit <https://www.tricare.benefeds.com/InfoPortal/indexAction>
  - For Dental there are 13 plans available locally with cost ranging from \$16.81 (Self only) to \$161.87 (Entire family) per month and for Vision there are 8 plans available locally with cost ranging from \$6.70 (self only) to \$43.38 (Entire family) per month.
  - See additional information at end of this section

### **22 November – Thanksgiving.**

Have a safe and happy Thanksgiving!

## **December**

### **8 December – USSVI Northern Virginia Base Meeting.**

Our regular Base meeting is being held at American Legion Post 162 in Lorton, VA. This will be your last opportunity to vote for the 2019 Base Officers. Let your voice be heard.

### **8 December – USSVI Northern Virginia Base Annual Holiday Luncheon.**

Our annual holiday luncheon is being held at Madigan's Waterfront Restaurant in Occoquan, VA following our regular scheduled Base meeting. Come out and enjoy the cheer as we enjoy each other's friendship.

### **15 December – NSL Capitol Chapter Wreaths Across America Participation.**

It is my pleasure to coordinate the NSL Capitol Chapter's participation in the wreath laying at Arlington National Cemetery (ANC) on Saturday, 15 December 2018. For those of you who don't know me, I'm Eric Holloway (USNA 87, retired O-6 Submariner, current SPA Analyst), and I am coordinating this event on George Wallace's behalf. This is a community-friendly event requiring only minor physical activity, and I encourage you to invite family and friends to join in.

If you would like to participate, please email me and Jessica Lovett (U of Florida 2011, JO USS WYOMING, current SPA Analyst), and we will follow up with additional coordination information. Our email addresses are: [eknehr@aol.com](mailto:eknehr@aol.com) and [jalovett11@gmail.com](mailto:jalovett11@gmail.com).  
(See additional information at the end of this section)

### **25 December – Christmas.**

From the Officers of USSVI Northern Virginia, Merry Christmas and look forward to seeing you all in 2019.



## Open season is here!

The 2018 Federal Benefits Open Season runs from November 12 through December 10, 2018 (ET). This is the first opportunity for eligible retired uniformed service members, active duty family members, and survivors to enroll in the Federal Employees Dental and Vision Insurance Program (FEDVIP).

Don't forget! The TRICARE Retiree Dental Program (TRDP) ends on December 31, 2018. If you were enrolled in TRDP, you will not be automatically enrolled in a FEDVIP dental plan.

## Don't miss your opportunity to enroll!

You must enroll during open season if you would like FEDVIP dental or vision coverage effective January 1, 2019.

[Enroll Now](#)

Thank you for visiting [tricare.benefeds.com](https://tricare.benefeds.com) to learn more about FEDVIP. FEDVIP is a voluntary dental and vision insurance program, available to most TRICARE-eligible members of the uniformed services and their families, beginning in 2019. Coverage is effective January 1, 2019, if you enroll during open season.



OPM.GOV



The U.S. Office of Personnel Management (OPM) has oversight of FEDVIP and BENEFEDS. BENEFEDS.com is the approved site for FEDVIP enrollment. BENEFEDS is administered by Long Term Care Partners, LLC®, an OPM contractor.

All,

It is my pleasure to coordinate the NSL Capitol Chapter's participation in the wreath laying at Arlington National Cemetery (ANC) on Saturday, 15 December 2018. For those of you who don't know me, I'm Eric Holloway (USNA 87, retired O-6 Submariner, current SPA Analyst), and I am coordinating this event on George Wallace's behalf. This is a community-friendly event requiring only minor physical activity, and I encourage you to invite family and friends to join in.

If you would like to participate, please email me and Jessica Lovett (U of Florida 2011, JO USS WYOMING, current SPA Analyst), and we will follow up with additional coordination information. Our email addresses are: [eknehr@aol.com](mailto:eknehr@aol.com) and [jlovett11@gmail.com](mailto:jlovett11@gmail.com).

The plan will be a little different than last year's. The ANC gates will open at 0800 and there will be an Opening Ceremony at the Tomb of the Unknown at 0830. The wreath laying starts at 0900, and the closing ceremony at 1200. We found in previous years that day-of coordination is challenging due to large crowds and little to no cell phone reception within ANC. So we'll plan to meet at Rickover's Grave at 0900 and "proceed without signal" from there.

Even if you arrive early, it may be difficult to get through security and make it to the Opening Ceremony at 0830. Meeting at Rickover's grave at 0900 to lay his wreath as a group and take some photographs will give us more time. From there we can lay wreaths individually and meet again at the closing ceremony. If all coordination fails, you can not go wrong by finding a truck handing out wreaths, laying one on a grave, and enjoying what I hope is a beautiful December day.

The wreaths are typically removed in January, and the Chapter plans to participate in that event as well. No details are available yet and I will pass them along when they are.

The Remembrance Wreaths are funded through individual and corporate donations. To sponsor a wreath or learn more about Wreaths Across America, go to:  
<https://www.wreathscrossamerica.org/pages/14720/Overview/?relatedId=48172>

This is a great opportunity to show your appreciation for those who served and protected our great nation. I hope to see you there!

Eric Holloway  
CAPT,USN (ret)  
[eknehr@aol.com](mailto:eknehr@aol.com)  
912-322-6280

**USSVI News  
&  
Other Submarine News**

## USSVI News

=====

### NEWS-01: HACKED EMAIL PHISHING ATTEMPT

Submitted by: John E. Markiewicz on 10/17/2018

-----

Today I received email from several people that informed me that someone sent them an email using my name and asking them to go to Walmart and forward money to pay a bill, for which will be reimbursed.

This genius is using my name, however, the email address is not mine, nor is it any email address I have ever used.

Be aware that it is a fraudulent email. All USSVI bills are sent to the National Treasurer for payment and there is no reason that I, or any National Officer would ever ask someone to pay a bill or to send us money.

If there is ever any question, call the Officer it is purported to be from, or the National Treasurer, to verify before you respond or send money for any reason.

There are a lot of idiots and crooks out there.

John Markiewicz  
National Commander

---

=====

### NEWS-01: 2018 Award Results

Submitted by: Steve Bell on 10/29/2018

-----

#### **Negri Award**

Edwin 'Bud' Atkins - Groton Base

#### **Link Award**

David Anderson - Minn-St Paul Base

Robert Andregg - USS Snook Base

Dominick Boncore - Mare Island Base

Steven Christenson - Base 51

James Davis - Tarheel Base

Jerry Emerson - Old North State Base

Paul Hiser - Tarheel Base

Jon Howery - USS Marlin Base

Peter Koester - Marblehead Base

Ciro Lopiccolo - Cowtown Base

Michael Lyster - Naples Base



Jay Mack - Central Florida Base  
Thomas McFadden - Tarheel Base  
Kenneth Nichols - Nautilus Base  
Michael Rainwater - USS Snook Base  
Thomas Sasgen - USS Chicago Base  
Vincent Sievert - Old North State Base  
John Stanford - First Coast Base  
James Wallace - Tarheel Base  
Jeffery Walsh - Groton Base  
J Barry Wyatt - Gold Country Base  
Egg Harbor Twp Base  
Kings Bay Base

#### **Mertiorious Award**

Edward Alexander - Tucson Base  
Carol Applegate - USS Marlin Base  
Alan Brodie - Blueback Base  
Kevin Galeaz - Thresher Base  
Richard Martin - USS Illinois Base  
USS Chicago Base

#### **Golden Anchor Award**

Class Two - Carolina Piedmont Base  
Class Three - Minneapolis-St. Paul Base Class Four - Old North State Base

#### **Silver Anchor Award**

Edmond Irwin - Topeka Jefferson City Base Bob Kirby - Pacoderm Base Richard Mitchell - Central Texas Base Timothy Spoon - Gold Country Base Fred Vineyard - Egg Harbor Twp Base

#### **Ben Bastura Award**

Lesley Waters - Mobile Bay Base

#### **NLOY**

Class One - Bremerton Base - Puget Soundings Class Two - Gold Country - Clear The Baffles Class Three - Central Texas Base - The Deck Log Class Four - USS Illinois Base - Green Board Over All Newsletter - Bremerton Base - Puget Soundings

---

=====

NEWS-01: 52 Boats Memorial Wreath Project Submitted by: William C. Andrea on 11/5/2018

-----

This POC is primarily for the Western Region, but is being sent to all for general interest and information. For questions,contact:  
Warren Branges  
[sdsubvets@gmail.com](mailto:sdsubvets@gmail.com)

61-971-8292

Shipmates:

The Point Loma Association (PLA), a local civic action group, is spearheading a project to place a holiday wreath on each of the 52 Boats Memorial markers at Liberty Station, site of the former Naval Training Center in San Diego. This effort is similar to but completely separate from the Wreaths Across America project in National Cemeteries.

The 52 Boats Memorial Veterans organization is partnering with the PLA in this effort. We will be placing the wreaths in conjunction with the posting of All Flags at the Memorial on December 7th, Pearl Harbor Day. There will be a brief ceremony at 0900 with remarks by Commodore Cavanaugh and CAPT Dickson, followed by wreath and flag deployment. The event announcement is copied below.

Here's how you can help:

Reserve the date, attend the ceremony and help deploy the wreaths and flags be sure to wear your vest. To coordinate the deployment, please let me know by email ([sdsbvets@gmail.com](mailto:sdsbvets@gmail.com)) or phone (619-971-8292) if you will be able to assist.

Make a donation to buy a wreath (or several) each wreath will cost \$15 and any funds collected in excess of requirements will go to the 52 Boats Memorial maintenance fund. Checks should be made out to 52 Boats Memorial Veterans.

Donations may be mailed to:

52 Boats Memorial  
c/o Warren Branges  
8030 Laird St  
La Mesa, CA 91942-2601

The PLA is also raising funds to support the holiday wreaths for the Memorial. You may donate online at: <https://www.classy.org/campaign/submarine-memorial-commemoration/c210223>. (cut and paste link). As with the mailed donations, collections in excess of requirements will go to the 52 Boats Memorial maintenance fund.

A project spearheaded by the U.S. Submarine Veterans of World War II and dedicated in March 2010, the 52 Boats Memorial pays tribute to the more than 3,500 Navy Submariners who died aboard the 52 U.S. submarines lost during WWII. Fifty-two black granite markers tell the stories of each boat lost and of their courageous crews. Thirteen additional U.S. submarines, lost in the years preceding and following World War II, are remembered in a single marker.

The 52 Boats Memorial is maintained by the 52 Boats Memorial Veterans, a 501(c)(3), all-volunteer charitable organization dedicated to the upkeep and preservation of the 52 Boats Memorial.

Announcement:

52 Boats Memorial Commemoration  
Laying of Wreaths and Placement of Flags

Sponsored by the 52 Boats Memorial Veterans and the Point Loma Association

DATE: December 7, 2018

TIME: 9 am - 9:30 am

PLACE: NTC Park at Liberty Station, corner of Cushing Rd. and Dewey Rd. (grassy area next to parking lot)

WELCOME: Warren Branges, President, 52 Boats Memorial Veterans

PRESENTERS:

CAPT Brien W. Dickson, Commanding Officer, Naval Base Point Loma  
CAPT Christopher J. Cavanaugh, Commander Submarine Squadron Eleven

INVITED GUESTS: Active Duty and retired Submarine community, their families and members of the Point Loma Association

REFRESHMENTS: Coffee and light refreshments after the ceremony

If you need further info, contact

Warren Branges  
[sdsubvets@gmail.com](mailto:sdsubvets@gmail.com)  
61-971-8292

Commander, San Diego Base  
President, 52 Boats Memorial Veterans

---

=====

NEWS-01: Arizona Silent Service Memorial raffle Submitted by: William C. Andrea on 11/5/2018

-----

Last Chance to Enter  
Dear Shipmates,

THE END IS NEAR! The deadline to enter our Arizona Silent Service Memorial special raffle is rapidly approaching. You can win one of the two \$500 Gift Certificates towards the purchase of your choice of a replica of one of Mel Douyette's Cold War Submarine models as advertised in the American Submariner magazine. All mail in donations must be received by NO LATER THAN 11/15/18. Website donations will be open until 11/20/2018. The winner's names will be announced no later than 11/30/2018. Winners

will be contacted, and their names will be posted to our website at:

[www.arizonasilentservicememorial.org](http://www.arizonasilentservicememorial.org).

For additional details, please feel free to contact me directly or visit our website and click on the blinking American Flag in the lower right panel on the homepage. Thank you.

Tim Moore, Chairman

Arizona Silent Service Memorial

Phone: 602-574-3286

Email: [seawolfssn@outlook.com](mailto:seawolfssn@outlook.com)

Website: [www.arizonasilentservicememorial.org](http://www.arizonasilentservicememorial.org)

---

=====

NEWS-01: Scholarship Application Process and Procedure Revised. \*\*\* Disregard previous POC 2018-085\*\*\* Submitted by: William C. Andrea on 11/6/2018

-----

> NEWS-02: Scholarship Application Process and Proceedure Submitted by:

> Robert Frick, USSVCF Chairman on 11/5/2018

> -----

> Shipmates:CORRECTED scholarship message below

>

> The Chairman, USSV Charitable Fund announces the launching of the process and procedure of the August 2019 to June 2020 Academic Year Scholarship Program. All sponsors are requested to provide this information to their direct dependents, grandchildren or legal guardianship children who wish to apply for a USSV CF Academic Scholarship.

> This year's application process has been converted to a user friendly Web-based application request, scholarship eligibility and detailed procedures for submitting a complete, accurate and secure application.

> The USSVI Scholarship Application page can be found by logging on to USSVI.ORG; then Selecitable Fund"; then seleclarships"; then select; "application".

> This USSVI Website page contains a PDF Document that provides the background, process and procedure for this program and a link to the website for secure application.

This scholarship application site has been co-produced and is co-located with the Dolphin Scholarship Program. Student applicants, who are qualified may also apply to the Dolphin Scholarship and other associated scholarships from this we page.

> The application website may also be accessed directly by a copy and paste of the following web address: "subforcescholarships.smapply.io" and selecting the USSVI Scholarship Program.

> Robert E. Frick RDML USN (Ret) SS Holland Chairman USSV CF Academic

> Scholarship Program.

> [refrickussvcf@gmail.com](mailto:refrickussvcf@gmail.com)

> [refrick1@gmail.com](mailto:refrick1@gmail.com)

>

---

=====

NEWS-01: Active Duty Submarines Membership Submitted by: National Officer on 11/6/2018

-----

Subject: Active Duty Submariners Membership

Shipmates:

This has been put out in the past but I found that some are not aware of our offer to our active duty shipmates. Any active duty dolphin wearing shipmate is allowed to join our organization with the first year of national dues waived. All the base needs to do on the application is to make sure you check the box for active duty. I would suggest that you check with the National Office each time to make sure you are following what they need. The same rules apply as to a regular member joining as far as the end of year goes. Any applying in the last quarter will get that quarter plus the full next year. Any sooner and they get the remainder of that year. As far as base dues is concerned, that is entirely up to the base. I realize that most bases do not have many opportunities for this but those bases in the ports of our submarines, this is a great way to get our active duty shipmates involved in your base as well as increase our membership count. However, the active duty members will NOT receive a hard copy of the American Submariner in the mail but they will be able to get it off our website (both old and new). At the end of their first year, if the base has not been able to renew their membership, the National Office will send them a letter just like our regular members reminding them that the national dues are late. If dues are not received by 31 January of the following year, then they will beed from our membership rolls.

Steve Bell

NJVC

---

=====

NEWS-01: SUBMARINE SCHOLARSHIP APPLICATION Submitted by: Robert Frick on 11/6/2018

-----

The Chairman, USSV Charitable Fund announces the launching of the process and procedure of the August 2019 to June 2020 Academic Year Scholarship Program. All sponsors are requested to provide this information to their direct dependents, grandchildren or legal guardianship children who wish to apply for a USSV CF Academic Scholarship This year's application process has been converted to a user friendly Web-based application request, scholarship eligibility and detailed procedures for submitting a complete, accurate and secure application The USSVI Scholarship

Application page can be found by logging on to "USSVI.ORG" then Charitable Fund"then selholarships"; tn select; "application".

This USSVI Website page contains a PDF Document that provides the background, process and procedure for this program and a link to the website for secure application. This scholarship application site has been co-produced and is co-located with the Dolphin Scholarship Program. Student applicants, who are qualified may also apply to the Dolphin Scholarship and other associated scholarships from this we page.

The application website may also be accessed directly by a copy and paste of the following web address: "subforcescholarships.smapply.io" and selecting the USSVI Scholarship Program

Robert E. Frick RDML USN (Ret) SS Holland Chairman USSV CF Academic Scholarship Program [refrickussvcf@gmail.com](mailto:refrickussvcf@gmail.com) [refrick1@gmail.com](mailto:refrick1@gmail.com)

---

=====

NEWS-01: 2019 NATIONAL CONVENTION IN AUSTIN INFORMATION Submitted by: Tom Williams on 11/10/2018

-----

The Central Texas and Brazos Valley Bases are working together to bring you next year's National Convention here in Austin, Texas. Come see why so many people are moving and visiting the Austin area. The Convention will be held from 14-20 Aug, 2019. Registration and the hotel room block are now available on the convention website: [ussviconvention.org/2019/](http://ussviconvention.org/2019/) We have been listening to you for the last 2 years and taking your input and are trying to plan the convention that you want and have something for everyone. Check the website out for many of the details. As more information is received the web site will be . Check back often. Some of the highlights include.

The host hotel is the fabulous Renaissance Austin. The hotel is located in an area called the Arboretum, a large shopping and dining area. The hotel is situated so that there will be very little walking required to get to any convention events. It is located close to public transportation and a round trip ticket to/from the Austin Airport will cost only about \$20. If you drive here, overnight parking is \$5 (disabled parking is free) and daily parking is free (such as for our RVers). We will have a large hospitality room combined with the vendor area with plans to have a cash bar in the afternoons, museum area, games, corn hole, submarine videos, slide shows, etc. We also plan to have a stage for some local live music acts and for you to be able to get up and show us what you have. Bring your guitars or whatever you play. The pool and patio area here are great too.

We have heard from you that many people want a variety of events and tours, so we have put together a list of many things to do from full day tours to evening events. From a lazy float down the river in a tube with your cooler of beverages, touring some local wineries and stopping for an All You Can eat at the Salt Lick BBQ, Beer and BBQ

tours, Dinner Cruise on Lake Austin, and trips to San Antonio (hosted by the PC Stryker Jr. Base) and Fredericksburg, birthplace of Fleet Admiral Chester Nimitz, where you can visit the National Museum of the Pacific War. We have worked hard to provide a variety of tours and events and keep the cost as low as possible. Check out the events and tours description document on the web site for further details and pick a couple to go on. If you only go on one, We highly recommend taking the trip to Fredericksburg.

We will have all the standard fare including the Welcome Aboard Party, Men's and Ladies Luncheons, Holland Club Breakfast and Awards Banquet. This year we are adding a Half Way Night Party. This party will be hosted by The Alibis - Austin, a Country Dance Hall Band. There will be dancing, cash bar and more. We hope to feature live music at the Welcome Aboard Party also and in a few other areas. Of course, there will be the Tolling of the Boat Ceremony, Central Texas Style.

And remember "We are all United States Submariners! Whether currently Active, Retired, Reserve or a Honorably discharge veteran, we all were and some still are members of the elite underseas fighting force of the United States Navy. We are all volunteers who passed stringent testing, challenging training and we earned the coveted designation QUALIFIED IN SUBMARINES. Whether your dolphins are gold or silver, there is no expiration date on the back of that pin." We strongly urge you to consider joining us in Austin for the 2019 Convention to meet and remember former shipmates, celebrate those who gave all, and have an opportunity to both hear what's going on and providing input to the direction of USSVI. The main reason we meet and have this convention is in support of the Annual Business Meeting. This meeting is your chance to get involved and have a say in things. You will be able to meet the Board of Directors and hear from them as well as provide them feedback. Help us by registering early so we can get our numbers correct. We will take Credit Card payments this year also if that is something that you want. Just check the box on the registration form and we will contact you for information.

For the Central Texas and Brazos Valley Convention Committee,

Rick Mitchell MMCS(SS) USN (Ret)  
2019 Convention Chairman  
[rmitch2@yahoo.com](mailto:rmitch2@yahoo.com) or [USSVI2019@gmail.com](mailto:USSVI2019@gmail.com)

---

=====

NEWS-01: Military Retiree Dental and Vision Insurance program Submitted by: Paul Hiser on 11/12/2018

-----

The Tricare Dental Program for retirees terminates on December 31, 2018.

The Federal Employees Dental Vision Insurance Program open season for enrollment runs from November 12, 2018, and closes December 10, 2018. Enrollment is not automatic. In addition to Dental, Vision Care is now an option.



To sign up and learn your options, go to [www.tricare.benefeds.com](http://www.tricare.benefeds.com)

Recommend speaking with your dentist to understand what dental insurance that is accepted. Total time to establish an account and make your ons can be as little as thirty minutes. But comparing plans may take an hour or so.

---

**From:** Les Altschuler [<mailto:CdrNJNorthbase@hotmail.com>]

**Sent:** Sunday, November 18, 2018 5:39 PM

**Subject:** Calling for a NE Region District 4 member to be appointed as the District 4 Commander

**NE District 4 Base Commanders and POC's - Please send this email to all of your base members.**

Shipmates:

There is an open position for a District Commander in the NE District 4 created by District Comdr. Ronny Olson's resignation after five years as DC. I wish to thank Ronny for stepping up and his service as the D4 DC since 2013.

I'm looking to appoint a qualified member in NE Region District 4 to fill the position until we hold elections in 2019 for District Commanders to serve 2019-2021.

**The Regional Director may appoint any regular member in good standing within a District living within the same District for District Commander of that District provided that:**

- 1. The nominee is currently serving or has previously served as a Base officer.**
- 2. The nomination is accompanied by a letter from the Nominee indicating that they have read and understand the requirements of the position and indicating their willingness to accept the nomination and willingness to serve, if elected.**
- 3. The Nomination Letter includes details of the nominee's qualifications in less than one hundred (100) words.**

**Please review the attached C&B and the District Commanders manual for the duties required for the position.**

**If you are interested please call me a 917-748-2275 or email me at [CdrNJNorthBase@hotmail.com](mailto:CdrNJNorthBase@hotmail.com), so that I can discuss this very important position in the USSVI with you.**

Section 7. DISTRICT COMMANDERS The District Commander is directly responsible to the Regional Director for the conduct of organizational business within his/her district. Page 23 of 37

The duties of the District Commanders shall include:

- A. Serving as non-voting members of the Board of Directors.
- B. Assisting the Base Commanders within their respective districts in the performance of their duties, including providing assistance as required to ensure the proper operation of base meetings and events, recruiting and retention.
- C. Appointing all District committee members, committee chairs and appointed officers as required to conduct District business.
- D. Representing his/her respective District at official functions.
- E. Assisting the Regional Director with the oversight of the performance of all Base Commanders within his/her district, the performance guidelines having been established by the Regional Director.
- F. Approving Base Bylaws, ensuring compliance with National and State laws regulating the operation of the Organization within his/her district (i.e. chartering, maintaining non-profit status, etc.).
- G. Actively promoting the establishment of new bases with the assistance of the New Base Development Committee (NBDC), including, with the assistance of the NBDC, sending to the Regional Director and National Junior Vice-Commander a report on the well-being of any new base six (6) months after it has been formed.
- H. Coordinating with their Regional Director to act, if needed, as liaison with other veteran organizations.
- I. Annually preparing a written report on the state of his/her District to be given to his/her Regional Director, with copies for publication in each of the District's Base Newsletters.
- J. If selected, serving as a member of the New Base Development Committee.
- K. Creating a quarterly newsletter for the Base Commanders within his/her District.
- L. Working up, keeping current and passing on immediately to his/her relief a "Turn Over" folder, including all official correspondence, records, and official materials assigned to his/her care.

Fraternally,

Les Altschuler

NE Region Director

---

## Other Submarine News

### **Argentina's missing submarine found a year after it vanished with 44 aboard**

By **Laura Smith-Spark**, Daniel Silva Fernandez and Ignacio Grimaldi, CNN

Updated 3:19 PM ET, Sat November 17, 2018

<https://www.cnn.com/2018/11/17/americas/argentina-missing-submarine-found-intl/index.html>

Submitted by Ross Sargent

**Buenos Aires (CNN)** A missing Argentine naval submarine has been found, a year and a day after it vanished in the South Atlantic with 44 crew members on board, authorities said Saturday.

The wreckage of the ARA San Juan, which "suffered an implosion," was found about 870 meters (2,850 feet) down on the ocean floor, Argentine naval Capt. Gabriel Attis later told reporters in Buenos Aires.

Family members at the navy headquarters were shown three images of the remains of the San Juan's "sail," or tower, and bow sections.

Hours before the wreckage was positively identified, the Argentine navy tweeted an image of a point of interest on the seabed, suggesting that a 60-meter-long object might be the missing vessel. An American company contracted by Argentina located the submarine.

Footage showed relatives of the lost crew members grieving in the northern port of Mar del Plata, the submarine's home base, as they received the news the submarine had been found. The vessel's condition remains unclear.

Defense Minister Oscar Aguad told reporters at a press

conference Saturday that Argentina does not have the capability of recovering the sunken submarine.

"No, we don't have the means to go down to that depth of the sea," he said, adding that authorities "do not have the equipment to bring the submarine out from such a depth."

The ARA San Juan disappeared November 15 last year off Argentina's coast, about midway on its journey from Ushuaia in the country's south to Mar del Plata.

The Argentine navy said in the following days that the vessel's captain had reported a short circuit in the vessel's battery system shortly before the last known contact. The short circuit was caused by seawater entering the vessel's "snorkel," a tube that reaches the surface to refresh the vessel's air and recharge the batteries, the captain said in a call to his commander on land.

Explosion likely killed crew of Argentine submarine, defense minister says

Days later, it emerged that a sound consistent with an explosion had been detected in the ocean near the sub's last known location by the United States and an international nuclear weapons monitor.

The hunt for the vessel -- which at its height involved 28 ships and nine airplanes from 11 nations, including the United States and United Kingdom -- centered on an area roughly 900 kilometers (559 miles) off the Argentine coast.

Relatives of crew members prayed for their return in Mar del Plata even as hopes dwindled that the diesel-powered submarine would be found before the air supply ran out.

The Argentine navy called off its rescue operation about two weeks after the sub's disappearance, saying there was "no chance of survival" for its crew, but search efforts continued. Among those lost was Eliana Maria Krawczyk, Argentina's first

female submarine officer.

Argentina's first female submarine officer, Eliana Krawczyk, was among the crew of the ARA San Juan.

Ocean Infinity, a US company specializing in deep water search and recovery, began looking for the ARA San Juan in September, using autonomous underwater vehicles operated by a team on board its ship Seabed Constructor, the firm said. The same ship was previously involved in the search for missing Malaysia Airlines Flight 370.

Three Argentine navy officers and four family members of the crew of the ARA San Juan were invited on board as observers for the search mission, Ocean Infinity said.

Oliver Plunkett, Ocean Infinity's CEO, said in a statement he hoped the discovery of the submarine would lead to "questions being answered and lessons learned" that would prevent a similar incident in the future.

Ocean Infinity told CNN on Saturday its search vessel is still conducting an analysis of the debris field found around the wreck. The company confirmed it has the ability to salvage remains of the submarine should the Argentines ask.

"Next steps are a matter for the authorities to determine," Plunkett said. "We would be pleased to assist with a recovery operation, but at the moment, we are focused on completing imaging of the debris field."

The vessel's loss raised questions over the navy's maintenance of its submarine fleet.

The ARA San Juan was an old diesel submarine, built in Germany in the mid-1980s but was refitted with new engines and batteries around five years before its disappearance, Peter Layton, a visiting fellow at the Griffith Asia Institute at Griffith University in Australia, told CNN last year.

The sub was designed to have a shelf life of around 30 years, which had expired, he said. If intact after the explosion, the hull could have been expected to withstand ocean depths up to around 500 to 600 meters, he said. Below that, it would buckle under pressure.

*CNN's Daniel Silva Fernandez reported from Miami and Ignacio Grimaldi from Buenos Aires, while Laura Smith-Spark wrote from London. CNN's Alejandra Morales and Max Ramsey contributed to this report.*

## **Selected Undersea Warfare News Articles**



## **To prep for ‘Hunter Killer,’ here’s what Gerard Butler did aboard the attack sub Houston**

**Tara Copp, Military Times, 15 October**

<https://www.militarytimes.com/news/your-military/2018/10/15/to-prep-for-hunter-killer-heres-what-girard-butler-did-aboard-the-attack-sub-houston/>

To prepare for his role as Navy submarine Capt. Joe Glass in the just-released movie “Hunter Killer,” actor Gerard Butler traveled to Pearl Harbor to spend three days aboard the Los Angeles-class attack submarine Houston.

“Hunter Killer” is the story of a submarine crew that’s tasked with stopping a Russian coup and avoiding the miscalculation that could lead to World War III. It was filmed with the Defense Department’s support; the Pentagon sees it as an effective way to connect with movie-going young men and women who might consider the military after watching the action-adventure film.

Like it is doing with “Top Gun 2,” after approving the movie script, the Pentagon made its ships, aircraft and personnel available for shooting scenes, and had advisers around to assist with set accuracy. The movie-making is done at no cost to DoD. If an action sequence can’t realistically be made part of a training mission, the Pentagon bills the production company for the time.

The next Navy blockbuster, one that looks like the lovechild of “Fast and Furious” and “Hunt for Red October,” will be surfacing in theaters on Oct. 26.

Butler visited the Pentagon Monday and conducted an unexpected press conference with defense reporters.

On ‘man overboard’ drills. “I don’t know if I’m allowed to say this, but when you are doing a man overboard, rather than putting a man overboard, they throw a bag of popcorn into the water,” Butler said. “Then you spend the next — you have four minutes, because if you are in cold water, he’s not going to make it, and neither is the popcorn — because, actually, the bag breaks open. So you spend the next four minutes maneuvering an 8,000-ton sub to try and get next to the popcorn so somebody can jump in and rescue it.”

He slept in the executive officer’s quarters. “I slept in the same room as the XO,” Butler said. “So when he was working, I was sleeping and vice-versa. There was two bunks in the room. Director Donovan Marsh got to sleep in the crew’s quarters.”

They were underwater for three days. “Basically, while we were down there we drilled pretty much all of the sequences that we would do in the movies. So we had battle stations. We had dives. We had quick surfaces, we had fire drills and it gave us a lot of ideas.”

That led to building a sub set on gimbals. “We ended up with a 17-ton set with 40 actors and crew and all the camera equipment basically working on this hydraulic platform. So when we go for our first dive in the movie, we could lean back, and when we were in the action sequences or torpedo chases, or avoiding depth charges ... the sub could move. We didn’t have to do the ‘Star Trek’ thing,” Butler said, which he demonstrated by stiffly doing a Trekkie-like shuffle to the side of the podium and leaning sideways.

He did not work out while on board. "But we put that in the movie," Butler said. "There's a little space where guys are cramped in with the bike to show the uses that have to be made of these tight spaces on the sub."

## **The Navy's Columbia-Class Ballistic Missile Submarine Has a Very Special Propulsion System**

**Kris Osborn, The National Interest, 18 October**

<https://nationalinterest.org/blog/buzz/navys-columbia-class-ballistic-missile-submarine-has-very-special-propulsion-system-33766>

The Navy has now completed at least one-fourth of the design drawings and begun advanced work on a stealthy "electric drive" propulsion system for the emerging nuclear-armed Columbia-Class ballistic missile submarines -- as part of its strategy to engineer the quietest, most technically advanced and least detectable submarine of all time.

The Columbia class, slated to begin full construction by 2021, is to be equipped with an electric-drive propulsion train, as opposed to the mechanical-drive propulsion train used on other Navy submarines.

"The electric-drive system is expected to be quieter (i.e., stealthier) than a mechanical-drive system," a Congressional Research Service report on Columbia-Class submarines from earlier this year states.

In today's Ohio-class submarines, a reactor plant generates heat which creates steam, Navy officials explained. The steam then turns turbines which produce electricity and also propel the ship forward through "reduction gears" which are able to translate the high-speed energy from a turbine into the shaft RPMs needed to move a boat propeller.

Designed to be 560-feet-- long and house 16 Trident II D5 missiles fired from 44-foot-long missile tubes, Columbia-Class submarines will use a quieting X-shaped stern configuration.

"Of the required design disclosures (drawings), 26-percent have been issued, and the program is on a path to have 83-percent issued by construction start," Bill Couch, spokesman for Naval Sea Systems Command, told Warrior Maven several months ago.

Is America Prepared for a Bloody Clash with North Korea or a Naval Conflict with China?

The "X"-shaped stern will restore maneuverability to submarines; as submarine designs progressed from using a propeller to using a propulsor to improve quieting, submarines lost some surface maneuverability, senior Navy officials told Warrior Maven in previous interviews.

Navy developers explained that electric-drive propulsion technology still relies on a nuclear reactor to generate heat and create steam to power turbines. However, the electricity produced is transferred to an electric motor rather than so-called reduction gears to spin the boat's propellers.

The use of an electric motor brings other advantages as well, according to an MIT essay written years ago when electric drive was being evaluated for submarine propulsion.

Using an electric motor optimizes use of installed reactor power in a more efficient way compared with mechanical drive submarines, making more on-board power available for other uses, according to an essay called "Evaluation and Comparison of Electric Propulsion Motors for Submarines." Author Joel Harbour says that on mechanical drive submarine, 80-percent of the total reactor power is used exclusively for propulsion.

"With an electric drive submarine, the installed reactor power of the submarine is first converted into electrical power and then delivered to an electric propulsion motor. The now available electrical potential not being used for propulsion could easily be tapped into for other uses," he writes.

Research, science and technology work and initial missile tube construction on Columbia-Class submarines has been underway for several years. One key exercise, called tube-and-hull forging, involves building four-packs of missile tubes to assess welding and construction methods. These structures are intended to load into the boat's modules as construction advances.

"Early procurement of missile tubes and prototyping of the first assembly of four missile tubes are supporting the proving out of production planning," Couch said.

While the Columbia-Class is intended to replace the existing fleet of Ohio-Class ballistic missile submarines, the new boats include a number of not-yet-seen technologies as well as different configurations when compared with the Ohio-Class. The Columbia-Class will have 16 launch tubes rather than the 24 tubes current on Ohio boats, yet the Columbias will also be about 2-tons larger, according to Navy information.

The Columbia-Class, to be operational by the 2028, is a new generation of technically advanced submarines intended to quietly patrol the undersea realm around the world to ensure second-strike ability should the US be hit with a catastrophic nuclear attack.

The nuclear-armed submarines are expected to serve all the way into and beyond the 2080s.

General Dynamics Electric Boat has begun acquiring long-lead items in anticipation of beginning construction; the process involves acquiring metals, electronics, sonar arrays and other key components necessary to build the submarines.

Both the Pentagon and the Navy are approaching this program with a sense of urgency, given the escalation of the current global threat environment. Many senior DoD officials have called the Columbia-Class program as a number one priority across all the services.

"The Columbia-Class submarine program is leveraging enhanced acquisition authorities provided by Congress such as advanced procurement, advanced construction and multi-year continuous production of missile tubes," Couch added.

### **USS Delaware to be christened**

**Matt Bittle, Delaware State News, 17 October**

<https://delawarestatenews.net/news/uss-delaware-to-be-christened/>

The U.S. Navy on Saturday will christen a submarine named after the First State.

The USS Delaware SSN-791, a Virginia-class attack submarine, will have a ceremonial launching from Newport News, Virginia, with Delaware and military officials in attendance.

U.S. Sen. Tom Carper, D-Delaware, who will be at the official ceremony, is holding three watch parties for interested persons. Livestreams of the event will be shown at Delaware Technical Community College Stanton Campus in Newark, Wilmington University's auditorium in Dover and Delaware Technical Community College Owens Campus in Georgetown.

The auditorium is located at 3282 N. DuPont Highway, Building A, and the Owens Campus party is in The Theater in Building 3, Arts & Science Center, at 21179 College Drive. Doors open at 9:30 a.m., and the event takes place from 10 to 11:30.

The vessel will be the seventh U.S. naval ship to carry the Delaware name. After the Navy announced in 2012 it planned to name five new submarines after states that did not have any vessels representing them, Delaware's congressional delegation urged military officials to adopt the Delaware name on the suggestion of a constituent.

"Just six months later, we had our answer: a state-of-the-art submarine – one of the most modern and technologically advanced in the world – would be named the USS Delaware, and a ship bearing our great state's name would, once again, set sail to serve and protect U.S. interests at home and around the globe," Sen. Carper wrote in 2016 after construction started.

"Delaware's role in the U.S. Navy has come full circle—from a 24-gun sailing ship protecting Philadelphia from the British on the eve of our Independence, to one of the world's most impressive vessels that can operate around the globe. It is a great source of pride and joy for me that we welcome the USS Delaware to our proud family."

The USS Delaware is sponsored by Jill Biden, the wife of former Vice President Joe Biden, and will be commanded by Brian Hogan. The vessel was supposed to be christened Sept. 15, but the event was postponed due to Hurricane Florence.

The first U.S. ship to bear the Delaware name was built in 1776 and fought in the Revolutionary War before being captured by the British, while the last such vessel was decommissioned in 1923.

The Navy commissioned two Delaware-class battleships, Delaware and North Dakota, in 1910. The Delaware played a minor role in World War I but did not see any action. It was broken up for scrap in 1924.

Virginia-class nuclear-powered fast attack submarines were designed to handle a wide variety of missions and replace Seawolf- and Los Angeles-class subs. A Virginia-class sub carries a crew of 132 individuals and can travel at speeds of more than 25 knots.

Sixteen such subs are currently in service.

### **Submarine Vermont to be christened Saturday at Electric Boat**

**Julia Bergman, The Day , 16 October**

<https://www.theday.com/military-news/20181016/submarine-vermont-to-be-christened-saturday-at-electric-boat>

A christening ceremony will be held for the future attack submarine Vermont at Electric Boat's headquarters here on Saturday.

The Vermont (SSN 792), is the 19th Virginia-class submarine, which take about five years to build. EB and Newport News Shipbuilding in Virginia build these submarines together under a teaming arrangement with each alternating delivery.

The ship's sponsor, Gloria Valdez, who served as deputy assistant secretary of the Navy for research, development and acquisition, will christen the submarine by breaking a bottle of sparkling wine from the state of Vermont across its bow.

The event is by invitation only. Submarine christenings usually attract several thousand guests including top military officials, politicians, EB employees and their families, and, of course, the crew and their family members.

The event will start at 11 a.m., and is expected to last about 75 minutes. A live video and audio webcast of the event will be accessible online at: [www.gdeb.com](http://www.gdeb.com).

Coverage will begin at 10:30 a.m. EST. The program will be available for on-demand replay for one week, beginning at approximately 3:30 p.m. EST on Saturday.

### **USS Indiana holds change of command at Naval Station Norfolk**

**Staff, News 3 TV (Norfolk, VA CBS Affiliate), 13 October**

<https://wtkr.com/2018/10/13/uss-indiana-holds-change-of-command-at-naval-station-norfolk/>

Cmdr. David Grogan relieved Capt. Jesse Zimbauer as commanding officer of the Virginia-class fast-attack submarine USS Indiana (SSN 789), October 12, 2018, during a change of command ceremony held at the Eli Hall on Naval Station Norfolk.

Zimbauer assumed command of Indiana in February 2015 and, following the change of command, will report to Commander, Submarine Squadron Six.

"When we start qualifications as a new submarine, by instruction you start with the commanding officer and the engineering officer as the only qualified people, and we build from there," Zimbauer said. "It has been amazing being in the shipyard and watching the whole ship and crew come together."

During his remarks, Zimbauer recognized those who have had the biggest impact in shaping his career — his family, friends and shipmates past — and shared with them the most enjoyable part about being the commanding officer of a submarine.

"For me, being one of the crew is my favorite part about this job," Zimbauer said. "It's a very hard job but I've had a very cheerful, motivated crew. We do a job that has consequence to it and has service to the nation, and, at the end of the day, this job is about standing up and doing something for the great people of this country."

Former Director of Naval Nuclear Propulsion, Adm. (Ret) Kirkland Donald, was the feature speaker and presided over the event, and lauded Zimbauer for his consummate professionalism, submarining expertise, and presence and leadership on the Norfolk waterfront.

"Command at sea is the ultimate test for naval officers. We frequently refer to it as the crucible. It is the best job you will ever have, and at the same time, the most stressful," said Donald. "Captain Zimbauer, your promotion to the rank of captain is based more on what the Navy believes you are capable of verses what you have done. You will continue to be challenged in the days to come but rest assured that the days on this ship prepared you for that challenge."



Grogan reports to Indiana from Naval Submarine School Groton, where he served as the executive officer.

"Captain Zimbauer, thank you for providing the greatest gift any new commanding officer could ask for: a well-trained crew and an immaculate ship," said Grogan, and followed with a message to the crew. "Indiana, you've built a high-performance race car from scratch, completed performance tests, and time-trials. You've expertly completed every twist and turn in the track and exceeded expectations in earning your place at the front of the starting grid. We'll now take her for a final tune up before we start the race of our lives, our first deployment. Start your engines. Hooyah, Hoosiers!"

The Indiana is a flexible, multi-mission platform designed to carry out the seven core competencies of the submarine force: anti-submarine warfare, anti-surface warfare, delivery of special operations forces, strike warfare, irregular warfare, intelligence, surveillance and reconnaissance and mine warfare.

It's 377 feet long and 34 feet wide and weighs nearly 7,800 tons, powered by a nuclear reactor to push the boat through water at speeds of more than 25 knots while submerged.

### **USS South Dakota to be commissioned Feb. 2, 2019**

**Staff, USS SOUTH DAKOTA Commissioning Committee, 24 October**

<https://kelo.com/news/articles/2018/oct/24/uss-south-dakota-to-be-commissioned-feb-2-2019/>

Secretary of the Navy Richard V. Spencer announced USS SOUTH DAKOTA (SSN 790) will be commissioned on February 2nd, 2019 in Groton, CT.

The ceremony marks the beginning of the submarine's service in the Navy's Fast Attack Fleet. USS SOUTH DAKOTA is expected to be in service for the next three decades.

Tickets for the commissioning can be requested at [www.SSN790.org](http://www.SSN790.org). Events to celebrate the commissioning are planned for Thursday, January 31st and Friday, February 1st leading up the commissioning on Saturday, February 2nd, 2019. Details can be found at Facebook.com/SSN790CC.

About the USS SOUTH DAKOTA (SSN 790)

On April 13, 2012, the Secretary of the Navy announced that U.S. Navy submarine SSN 790 would be named in honor of the State of South Dakota. Carrying a crew of 14 officers and 117 enlisted servicemen, USS SOUTH DAKOTA (SSN 790) will be armed with two Virginia Payload Tubes (VPT), each capable of holding six vertical launch Tomahawk missiles that can strike land targets up to 1,240 miles away. The ship is powered by a nuclear reactor, offering an unlimited source of fuel lasting the lifespan of the ship, which is projected to be over 30 years.

About the Commissioning Committee

Authorized and directed by Governor Dennis Daugaard, the USS SOUTH DAKOTA (SSN 790) Commissioning Committee supports events surrounding the ship's keel laying, christening, and commissioning. The Commissioning Committee is charged with hosting events in South Dakota for the officers and crew of USS SOUTH DAKOTA as well as fundraising and promotional efforts. The committee is also encouraged to

develop long-lasting ties between the residents of South Dakota and the crew of the ship.

### **The Navy's New Submarine Plan Is In. Take a Look.**

**David Axe, The National Interest, 24 October**

<https://nationalinterest.org/blog/buzz/navys-new-submarine-plan-take-look-34202>

The U.S. Navy plans to develop two new classes of submarine, according to congressional analysis of the sea service's shipbuilding plan for 2019.

The submarines could help to maintain the Navy's advantage in submarine-on-submarine warfare while also filling a looming shortfall in the sailing branch's capacity for sea-to-land missile strikes.

But not without cost. Designing and building five of the new Large Payload Submarine cruise-missile subs and 30 of the new SSN(X) attack submarines could set back U.S. taxpayers \$200 billion by 2048.

That's significantly more than the Navy expected to spend as recently as 2017.

Today the Navy possesses 65 submarines. All of them are nuclear-powered. They include 14 Ohio-class ballistic-missile submarines, or "boomers," which the Navy expects to begin replacing with 12 new Columbia-class boomers starting in 2021.

The balance of today's submarines include 35 1980s-vintage Los Angeles-class attack submarines, three attack boats of the 1990s Seawolf class, 13 newer Virginia-class attack boats and four old Ohios that the Navy converted into cruise-missile carriers during the early 2000s. Each of these old boats can carry as many as 154 Tomahawk cruise missiles.

Today around 10 attack subs are on patrol on any given day while the others undergo maintenance and crew training. Navy plans require as many as 35 boats to surge on short notice to a war zone during a major conflict.

As of 2017, the Navy planned to upgrade the Virginia design and continue buying vessels of that class through the late 2040s, at least, while also retiring the converted Ohio cruise-missile submarines without a direct replacement starting in the mid-2020s.

The latest version of the Virginia includes a hull extension for new vertical missile tubes. This "Virginia Payload Module" boosts the type's cruise-missile capacity from 12 to 40, a feature that could help alleviate a missile-tube shortfall resulting from the planned retirement of the cruise-missile carriers.

But the latest edition of the Navy's 30-year shipbuilding plan revises those plans. Instead of upgrading the Virginia, the sailing branch anticipates designing a brand-new attack boat it calls the SSN(X). The new vessel would enter service beginning in 2034.

The SSN(X) reportedly would be bigger than the 8,000-ton-displacement Virginia is, and thus would more closely match the 9,000-ton-displacement of the Seawolf class. "The Navy indicates that the next-generation attack submarine should be faster, stealthier and able to carry more torpedoes than the Virginia class" does, according to an October report by the Congressional Budget Office .

But the SSN(X) would not include the payload module, instead devoting its extra space to torpedoes, propulsion and quieting features -- design aspects that contribute to superior performance in sub-on-sub warfare.



Reducing missile armament in favor of torpedoes in the SSN(X) design could, absent other force-structure changes, exacerbate the loss of around 600 missile tubes when the converted Ohios decommission and lengthened Virginias with their extra 28 missile tubes apiece are just beginning to enter service in the mid-2020s.

The new Large Payload Submarine, which the Navy first mentioned in its shipbuilding plan for 2019, addresses this problem. "The Navy provides little information about the size and capabilities of the large payload submarine," CBO explained.

The CBO "assumed that it would be based on the Columbia-class hull with its missile tube section reconfigured to perform whatever missions the Navy might want and that other sections of the ship would receive the necessary equipment and modifications to support the payloads the submarine might carry."

The Navy has been buying new Virginias at a rate of two per year, hoping to mitigate an attack-sub shortfall during the mid-2020s. In December 2016, the Navy announced it needed 66 attack boats to meet regional commanders' needs. But the attack-sub force could decline to a low of 42 in 2028 as old Los Angeles and cruise-missile boats leave the fleet in large numbers.

"Where we sit today is, we can't build ships and deliver them in time to fill in that dip," Vice Adm. Bill Merz, a deputy chief of naval operations, told U.S. senators.

Introducing two new submarine classes could address specific capability shortfalls -- undersea stealth and fleet missile capacity, for example -- but the addition likely will increase overall shipbuilding costs.

The Navy's old plan to upgrade the Virginia design in the 2030s would have cost \$3.6 billion per ship, the CBO estimated. Designing and building SSN(X)s instead could cost \$5.5 billion per sub, according to the CBO. The budget office predicted each Large Payload Submarine would come with a whopping \$7.7-billion price tag.

Adding cost makes it harder for the Navy to, for example, boost submarine production rates in order to address the coming attack-boat shortfall.

The CBO estimated the Navy shipbuilding, as currently planned, could cost \$29 billion per year over the next 30 years. "That total is 80 percent more than the average shipbuilding budget the Navy has received over the past 30 years and about 50 percent more than the average budget of the past six years, a period of increasing shipbuilding appropriations."

## **The U.S. Navy is Taking 'Top Gun' to Sea With Submarines**

**Kyle Mizokami, Popular Mechanics, November 8**

<https://www.popularmechanics.com/military/navy-ships/a24850674/top-gun-submarines-us-navy/>

The Navy is taking a page out of its own "Top Gun" book, but this time for submarines instead of F-14s. The service is creating a unit designed to teach submariners how to fight their Russian and Chinese counterparts. The "aggressor squadron" is part of the Navy's push to prepare for-and, with any luck, avoid-a major war with another major power.

USNI News reports that the new commander of the U.S. Navy's Naval Submarine Forces, Vice Admiral Charles Richard, is standing up the new unit as part of a training overhaul for attack submarine commanders and crews. Admiral Richard

wants to focus the submarine fleet away from the diversified missions of the post-9/11 period-which often included intelligence-gathering and other anti-terrorism missions-and back on the ability to fight other navies.

Enter Top Gun. In the 1970s, following the mediocre performance of U.S. Navy fighter pilots in air-to-air combat against North Vietnamese fighters, the Navy created the United States Navy Strike Fighter Tactics Instructor program, the legendary school that inspired the Tom Cruise movie. Top Gun pitted American air crews against veteran pilots trained in enemy tactics, forcing them to fight realistic air battles before deploying to Southeast Asia and around the world. Top Gun was an unqualified success, dramatically improving the air-to-air kill ratios of Navy pilots.

An underwater version of Top Gun won't be quite the same. For one thing, the submarine fleet won't have its own squadron of "enemy" submarines painted in exotic camouflage like the real Top Gun does. In fact, it won't have its own submarines at all. Instead, the program will consist of a cadre of submarine veterans, both active and reserve, and civilians skilled in foreign navy operations. Admiral Richard wants these instructors to go head-to-head against submarine crews to create the most realistic combat simulation possible. In military training parlance, such teams are called "red" teams.

The U.S. Navy submarine force currently has 56 nuclear-powered attack submarines, including 40 Los Angeles class attack submarines, 3 Seawolf class submarines, and 13 Virginia class submarines. Soon, all the sailors serving on those boats could be more prepared for a day we hope to never see.

## **Thermwood and US Navy explore additive manufacturing for ships and ship systems**

**Scott Francis, Composites World, 14 November**

<https://www.compositesworld.com/news/thermwood-and-us-navy-explore-additive-manufacturing-for-ships-and-ship-systems>

Thermwood Corp. (Dale, IN, US) has entered into a collaborative program with the Naval Surface Warfare Center, Carderock Division (Potomac, MD, US) to explore the use of additive manufacturing technology in developing marine models for ship and ship systems testing.

The initial validation program was centered on printing an unclassified scale nose of a submarine using Thermwood's Large Scale Additive Manufacturing (LSAM) system – a full-fledged industrial additive manufacturing system intended for the production of large scale components. The part was printed using 20% carbon fiber filled ABS in 11 hours and 45 minutes using traditional horizontal layer printing and a 40 mm melt core. Final trim required 5 hours. Both printing and trimming were completed on the same machine, using Thermwood's 10 ft x 20 ft LSAM at its demonstration lab in Southern Indiana.

Because of layer cooling requirements, the print rate for this part was less than half of the maximum rate the machine is capable of, according to Thermwood. The company expects that, moving forward, the program will include the printing of additional components using both horizontal and vertical layer printing.

## **Senators, advocates push for USS Thresher disaster memorial**

**Adam Sexton, WMUR9 (New Hampshire), November 12**

<https://www.wmur.com/article/senators-advocates-push-for-uss-thresher-disaster-memorial/25022139>

A renewed effort is underway to memorialize the 129 sailors and civilians who were lost aboard the USS Thresher, a submarine that sank off the New England coast in 1963.

In the deadliest submarine disaster in U.S. history, the USS Thresher went down on April 10, 1963, during deep-diving tests, sinking in 8,000 feet of water about 200 miles off Cape Cod.

None of the 129 men aboard the Portsmouth-based vessel survived.

"It was a national event," said Kevin Galeaz of the USS Thresher Arlington Memorial Foundation. "It was bracketed between the Cuban Missile Crisis of November 1962 and President John F. Kennedy's assassination that following November of '63."

A memorial stands at the Albacore Museum in Portsmouth, but for years, there have been efforts to erect a monument on the grounds of Arlington National Cemetery.

This month, five New England senators, led by U.S. Sen. Jeanne Shaheen, D-N.H., are encouraging the secretaries of the Army and Navy to allow the project to move forward.

"There are precedents that other memorials of specific incidents have been honored, and we think it's very important to recognize those lost on the Thresher," Shaheen said.

The Navy responded to the Thresher disaster by revamping submarine safety and quality assurance standards during construction, a legacy that would be honored on the proposed monument.

"It also recognizes what happened because of that horrible accident, that we made changes to our submarine program that have saved so many lives," Shaheen said.

"Family members of the men lost aboard the Thresher have been trying to build a memorial for decades. They're now calling on veterans and civilians to write letters to military officials in support of the effort.

"Myself and other submariners who have served since, we owe our lives to these men," Galeaz said.

## **Undersea Warfare History:**

November 5, 1905 | USS A-1 (Plunger) (SS-2) was decommissioned and placed "In Ordinary."

October 19, 1915 | The Naval Submarine Base at New London, Conn. is established.

October 15, 1923 | USS S-26 (SS-131) was commissioned with Lt. Edmund W. Burrough in command. Operating out of New London, Conn., from 1923 into 1925, S-26 visited St. Thomas and Trinidad from January into April 1924, and Hawaii from 27 April to 30 May 1925.

October 17, 1942 | USS Trigger (SS 237) sank the Japanese freighter Holland Maru near the mouth of Bungo Strait of Kyushu, Japan. Lost in action with all hands later in the war, Trigger received 11 battle stars for her WWII service and the Presidential Unit Citation for her fifth, sixth and seventh war patrols.

October 22, 1942 | USS Tarpon (SS-175) stood out of Pearl Harbor, HI., to begin her 5th war patrol which took her to waters North of Bougainville. She sighted many fishing boats which were not worthy of a torpedo.

October 25, 1942 | USS Tautog (SS 199) tracked a passenger-cargo ship until dark and fired two torpedoes into her. A fire started in the target aft, her bow rose into the air, and the unidentified ship sank within a few minutes.

November 9, 1942 | USS Haddo (SS 255) sank the oiler Hishi Maru No. 2.

November 13, 1943 | USS Trigger (SS 237) made a submerged approach on a convoy of 9 merchantmen and four escorts. With empty bow tubes, she emptied her stern tubes at the last and biggest ship. Trigger came to periscope depth, to learn that her target had gone down.

October 16, 1944 | USS Tilefish (SS 307) sank the Japanese guard boat No. 2 Kyowa Maru, five miles north of Matsuwa Jima, Kuril Islands.

October 18, 1944 | USS Raton (SS 262) sank the Shiranesan Naru and Takai Naru and damaged another ship. With her torpedo supply running low and a typhoon approaching, Raton pulled into Mios Woendi, Schouten Islands, for more fuel and torpedoes in order to finish her patrol.

November 14, 1944 | USS Jack (SS 259) attacks a Japanese convoy off Cape Padaran, French Indochina and sinks the freighter Hinaga Maru, while USS Raton (SS 270) attacks a Japanese convoy off the northwest coast of Luzon and sinks the merchant tanker No. 5 Unkai Maru.

November 15, 1944 | USS Hawkbill (SS 366), in company with Becuna (SS 319) and Flasher (SS 249), departed for her 2nd war patrol bound for the 2nd war patrol bound for the area north of the Malay Barrier.

November 16, 1944 | USS Segundo (SS 398) departed Majuro on her 2nd war patrol, for the Philippine Islands, with USS Razorback and USS Trepang.

November 6, 1954 | USS Thornback (SS 418) was the first submarine to snorkel in the Mississippi River at New Orleans, LA, from the Industrial Canal to the foot of Canal Street.

November 7, 1962 | USS Thomas A. Edison (SSBN 610) loaded Polaris missiles at Charleston, S.C., and embarked upon her first deterrent patrol. She concluded that patrol at the base at Holy Loch, Scotland, whence she operated for the next four years, conducting 17 deterrent patrols.

October 26, 1963 | USS Andrew Jackson (SSBN 619) launches the first Polaris A-3 missile while cruising submerged 20 miles off Cape Canaveral, Fla.

November 8, 1986 | USS Louisville (SSN-724) was commissioned with CAPT. Charles E. Ellis in command. Louisville serves as a trials platform for the prototype BQQ-10 ARCI sonars, which incorporate off-the-shelf computer components, allowing easy introduction of modular upgrades.

October 23, 2004 | USS Virginia (SSN 782) was commissioned with Capt. David J. Kern in command.

October 24, 2008 | USS New Hampshire (SSN 778) was commissioned with Cmdr. Michael Stevens in command at Portsmouth Naval Shipyard, Kittery, Maine.