



PRIDE RUNS DEEP



"To perpetuate the memory of our shipmates who gave their lives in the pursuit of duties while serving their country. That their dedication, deeds and supreme sacrifice be a constant source of motivation toward greater accomplishments. Pledge loyalty and patriotism to the United States of America and its Constitution."

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Editor's Corner

As Mr. Dylan (not Dillon) once memorably put it, "The times, they are a-changin'." Recent weeks have found my life altered in a big way as 24/7 caregiver duties and a full takeover of *all* household responsibilities have suddenly overwhelmed me. Something now has to give—and that something shall be my editorship of this here rag. Next month's (May) ish will thus be my last—the culmination of, by my count, 85 issues going back to 2018. I hope you'll agree: that's indeed a pretty good run.—Jeff

The U.S. Navy's Ohio-Class SSGN Submarines Summed Up in One Word

(Reproduced from the National Security Journal website - Published September 22, 2025)

By Isaac Seitz

<https://nationalecurityjournal.org/the-u-s-navys-ohio-class-ssgn-submarines-summed-up-in-1-word/>



NAVAL BASE GUAM (April 23, 2025) – The guided-missile submarine USS Ohio (SSGN-726) transits Apra Harbor, Naval Base Guam, April 23, 2025. Ohio, homeported in Bangor, Washington, and assigned to Submarine Squadron 19, is conducting routine operations in the U.S. 7th Fleet area of operations. U.S. 7th Fleet is the U.S. Navy's largest forward-deployed numbered fleet and routinely interacts and operates with allies and partners in preserving a free and open Indo-Pacific region. (U.S. Navy photo by Lt. James Caliva.)

Key Points and Summary:

- Four converted Ohio-class SSGNs—Ohio, Michigan, Florida, and Georgia—retire between 2026–2028, removing up to 616 undersea Tomahawk cells and unmatched support for covert special operations.
- Built in the 1980s as SSBNs, they were refit to carry 154 TLAMs each and host SEALs, SDVs, and Dry Deck Shelters.
- Their departure, alongside Ticonderoga-class cruiser retirements, slashes Navy VLS

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From the Wardroom...



Darin Detwiler,
Base Commander

Shipmates and Ladies,

In mid-March, I met with senior leadership at Naval Weapons Station Seal Beach and learned that, due to heightened global tensions and increased security measures, all public events on the installation are suspended until further notice. This includes our planned Memorial Day ceremony at the U.S. WWII Submarine Veterans National Memorial West. While the situation may be reassessed, there are no guarantees. We were advised to develop an alternative course of action.

This presents not simply a logistical challenge, but a leadership one. We are called to balance what we value most—honoring our WWII submarine veterans with the dignity they deserve—against uncertainty beyond our control and the very real constraints of time, planning, and execution.

At its core, our purpose has never been tied to a specific location. It is rooted in remembrance—ensuring that the stories and sacrifices of these submariners are carried forward with meaning and respect. After careful deliberation at our March 21 Executive Board meeting, we voted to relocate and combine our 2026 Memorial Day Ceremony with the City of Seal Beach ceremony at Eisenhower Park, in partnership with the Seal Beach Lions Club.

This decision provides certainty in an uncertain environment and allows us to deliver a well-organized, public tribute worthy of those we honor, even if it differs from past years. Leadership is not about preserving tradition at all costs; it is about making clear, values-based decisions in service of a greater mission. While we cannot control global events or security conditions, we can control how we show up for our veterans, their families, and one another.

That principle is not new. It is reflected throughout our history.

April reminds us that the Submarine Force has always been defined by courage, innovation, and quiet resolve. From the commissioning of USS *Holland* (SS-1) in April 1900, to the revolutionary capabilities of USS *Nautilus* (SSN-571) in April 1954, to the strategic milestone achieved by USS *George Washington* (SSBN-598) with the first successful submerged launch of a Polaris missile in April of 1960, submariners have continually answered the call to serve—often in ways the world had yet to fully understand. On April 11, National Submarine Day, we recognize not only these milestones, but the people who made them possible.

History is not made by machines, but by those willing to step into the unknown.

Those submariners did not wait for perfect conditions. They moved forward with trust—in their mission, in each other, and in something greater than themselves. That same spirit endures today.

Wherever we stand this Memorial Day, whether on familiar ground or new, we stand in continuity with that legacy. We stand with gratitude for those who came before us and with a shared responsibility to ensure their sacrifices are neither forgotten nor diminished by circumstance.

In the end, it is not *where* we remember.

It is *why* we remember.

Darin

Darin Detwiler, Commander
Los Angeles-Pasadena Base

From the Wardroom... Part Two



More L.A.-Pasadena News...

• Naval Weapons Station Seal Beach Command Master Chief (CMDCM) Paul Workman was officially advanced to Master Chief during a “pinning ceremony” on March 13 on the base. He, along with the Command Senior Chief Jerry Struble, are both qualified in submarine warfare. USSVI Base Commander Darin Detwiler attended the event and presented Master Chief Workman with a Certificate of Recognition from USSVI L.A.-Pasadena Base. (See photos next month in our May Periscope.—ed.)

• Base members attended the March 21 meeting of our USSVI L.A.-Pasadena Base at a special location: the VFW Military History Museum in Simi Valley. This museum has a section dedicated to submarine history and subvets, including photos and artifacts from our own base. Base COB Bill Moak presented a Certificate of Recognition to Nigel Boucher, the VFW Military History Museum’s Founder and Curator. After the meeting, many members gathered for lunch at Red Robin near the museum. (See photos by Ron Jones, Ray Teare and others on page 15.—ed.)



Darin Detwiler,
Base Commander

Shipmates and Ladies,

A few important last-minute extras here not to be overlooked:

Save the Date:

Don’t miss Pat Zilliacus’s 100-Year Bodacious Birthday Bash! WWII subvet Pat’s century birthday party will take place May 16 at 2:00 p.m. (after our regular monthly meeting at Marni’s in Seal Beach) at the Westchester Senior Center located at 8740 Lincoln Blvd., Los Angeles, CA 90045 (near LAX). Parking is shared with the Westchester Library. Phone: 310-649-3319. There’ll be light refreshments and fun aplenty! L.A.-Pasadena Base is fully invited. Though Patrick’s actual birthday is May 11th, we hope an overwhelming number of L.A.-Pasadena subvets can join him to celebrate on Saturday! For those unable to attend but would like to send birthday wishes by mail, email or phone, reach Pat at:

Patrick Wilhelm Zilliacus
8180 Manitoba
Unit 323
Playa Del Rey, CA 90293-8668
Email: pwzilli@aol.com
Phone: 310-592-7047

Hope to see you there!

Sign-ups:

Join us to participate in the Fourth of July Parade in Huntington Beach (July 4, 2026)!

This tradition finds us walking or riding along a two-mile parade route, waving at audiences along the way. Early morning staging, photo ops, and socializing with other subvets is the order of the day. We already have some members signed up via our March meeting, but more are wanted and welcome! Bring your vest, hat, sunblock, and some snacks and drinks if you’d like.

Some L.A.-Pasadena Base members have now already signed up to volunteer for three different Seal Beach “Pop-Up at the Pier” events (June 13, June 27, and December 5). This is essentially a networking/visibility/recruitment event for our base, involving sitting or standing around at the USSVI booth to meet and greet, answer questions, and potentially bring aboard new members! Two- and four- hour shifts are available. Again, bring your vest, a hat, a chair, and some snacks or drinks if you’d like.

Anyone interested in involvement with either of these events should contact me at (425) 232-5743 or ddetwiler680@gmail.com.

Darin

Darin Detwiler, Commander
Los Angeles-Pasadena Base



March General Meeting Sailing List

Sue Bolton
Dennis Bott
Darin Detwiler
Ken Dorn
Larry Duncan
Sam Higa
Ron Jones
Bill Moak
Chuck Senior
Marilyn Senior
Mike Swanson
Ray Teare
Dave Vanderveen
Stan Westrick



Minutes of March 21, 2026 General Meeting

Base Commander Darin Detwiler called the General Meeting of the L.A.-Pasadena Base to order at the VFW Military History Museum in Simi Valley at 1120 hours. Dennis Bott delivered an opening prayer. Bill Moak led the Pledge of Allegiance, followed by a moment of silence for our departed shipmates and submarines lost during the month of March.

Minutes:

Darin stated that February's meeting minutes had been reviewed and approved as published in the March newsletter and accepted into the base record by the E-board. *(See E-Board Minutes elsewhere in this issue.—ed.)*

Treasurer's Report:

Darin further noted that the E-board had reviewed, approved, and accepted the treasurer's report into the base record and, in compliance with our by-laws, asked Treasurer Sue Bolton to present the report to the general members in attendance. *(The same report appears in the E-Board Minutes as usual.—ed.)*

Membership Update:

Marilyn Senior (Membership Chair) reported that the base membership now stands at 100. Holland Club has 67 members, 68 USSVI Life Members, 67 Base Life Members, and no Eternal Patrol notices. Three new members are now processed, two from the Silent Service Motorcycle Association and another (gained through the "Pop-Up at the Pier" in Seal Beach) who is now a USSVI Life Member. We also have one prospective member gained through networking with the Seal Beach Chamber of Commerce.

Memorial Update:

Darin discussed the status of the work request for a new door and jamb—both needed for the podium (All has been approved and the workshop on the base plans to have the work completed within thirty days). Darin then discussed how he had met with the Naval Weapons Station leadership and learned how the current military security level is such that all public activities on the base are prohibited. As a result, we cannot hold our Memorial Day ceremony at the U.S. WWII Submarine Veterans National Memorial West. The E-Board voted to collaborate with the Seal Beach Lions Club to combine with their Memorial Day ceremony at Eisenhower Park, connected to the north side of the pier in Seal Beach. The E-Board also voted to establish a team to work with the organizers to ensure a smooth event.

(concluded on next page)



**Ad Still Here by
Popular Demand!**



Just the Place for Killer MidRats!

Hey, know anyone on boats out of New London? Or, planning a visit to Groton yourself? Drop anchor at this local dive: **Wings'n'Pies** at 924 Route 12, just down the road from the Base's Main Gate. Your editor enjoys firsthand knowledge that the pizzas here are some of the tastiest and sloppiest around. Forget those extra napkins—just wipe your greasy fingers on your shirt and they'll think you've been hanging out with the A-Gang!



General Meeting Minutes...

(concluded from previous page)

Old Business:

The discussion included Holland Club challenge coins (Darin will connect with Jim Irwin regarding the acquisition of more coins). The E-Board voted to purchase a half-page ad in the 2026 National USSVI Convention program magazine at a cost of \$175.00. Darin will draft a few options for this ad. The upcoming Western Regional Roundup in Las Vegas was discussed, and additional discounted rooms are now available on the Roundup website. Our April Meeting will be virtual as many members are attending the roundup in Las Vegas.

New Business:

Bill Moak presented Nigel Boucher, the VFW Military History Museum's Founder & Curator, with a Certificate of Recognition (as well as a patch and coin) for giving our submarine heritage not only a place of honor, but a living home. Members signed up to participate in the Huntington Beach 4th of July Parade. Darin gained volunteers for the Seal Beach Pop-Up at the Pier events (June 13, June 27, and December 5). Any members interested in signing up for a two-hour or a four-hour shift at these events (being an ambassador for our base), please contact Darin Detwiler at (425) 232-5743 or ddetwiler680@gmail.com.

Good of the Order:

Ron Jones discussed his work on the National Cemetery (Westwood) Board and that the Saturday before Memorial Day, from 8:30-9:30, volunteers are invited to help place American flags on the 90,000 gravestones. Ron also shared how he filmed a video of flower placement at our U.S. WWII Submarine Veterans National Memorial West. We will work to put that link on the Memorial Website. Dave Vanderveen inquired about the status of updating our websites, to which Darin replied that he will collaborate with Mike Swanson to update. Dave also shared how we have only 82 USSVI members who are WWII veterans. Bill Moak reminded us about the 250th birthday Challenge Coins and that we have stickers and shirts for sale.

Dennis Bott won this month's 50-50 drawing, donating his winnings back to the Flower Fund.

There being no further business, Bill Moak motioned for adjournment; this was seconded by Dennis Bott and passed, ending the meeting at 1205 hours.

Respectfully submitted,

Stan Westrick

Secretary, L.A.-Pasadena Base, USSVI



PRIDE RUNS DEEP

**Our April Meeting
will be Virtual Only!**

April Meeting

Date: April 18, 2026

Join us online for our April Base Meeting! Since many members will be out of town this month attending the Western Regional Roundup during our regular meeting day, our E-Board decided to make this month's meeting VIRTUAL, taking place at 1100 hours. Care to join us? Here's the link: <https://northeastern.zoom.us/j/96442001535>
Meeting ID: 964 4200 1535
See you onscreen, shipmate!



April Birthdays

We hereby extend the happiest of wishes to all our L.A.-Pasadena Base birthday celebrants!

Gary Krudwig 4/1
 Scot Schuman..... 4/5
 Tom Peratt 4/7
 Laurie Ann Mabry..... 4/10
 Ed Barwick 4/28



Ship's Store

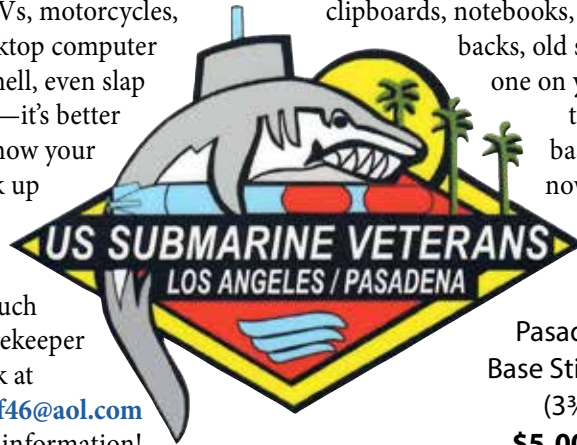


Clearance Price on T-Shirts!

Our ever-popular L.A.-Pasadena Base "Submarine Veterans" tees are once again selling like fresh whites after a fall down the pump room hatch! Now a mere *ten bucks* apiece, there's no reason not to have a closetful. Contact Bill Moak for yours, or just bring a few extra bucks to the next meeting, you skinflint!

L.A.-Pasadena Base Logo Stickers!

They're not just for the refrigerator, bubblehead! Stick 'em on cars, trucks, RVs, motorcycles, clipboards, notebooks, lap-tops, desktop computer trunks...hell, even slap one on your forehead—it's better than a base pride tattoo! Show your and stock up now!



Get in touch with Storekeeper Bill Moak at golfnsurf46@aol.com for more information!

L.A.-Pasadena Base Sticker (3¾x5) **\$5.00 ea.**



USSVI Logo Patch (9¾x6¾) **\$11.00 ea.**



L.A.-Pasadena Base Patch (3¾x5) **\$5.00 ea.**



Holland Club Member Patch (3x3) **\$6.00 ea.**



Submarine Force Challenge Coin **\$20.00 ea.**

LOS ANGELES - PASADENA BASE

2026 FLOWER FUND and BOOSTER CLUB

A special thank you to the following folks whose generous contributions this year have helped make our base activities and charitable functions possible:

- Ken Dorn (multiple)
- Stan Westrick • Bill Moak
- Dennis Bott (multiple)



Booster Club and Flower Fund donations are welcome in any amount and are often also popular with 50/50 Drawing winners at our base meetings. Contributions can be made in cash or by check payable to L.A.-Pasadena Base of USSVI. Checks may also be sent to Sue Bolton at 13561 Iowa Street, Westminster, CA 92683-2637. To ensure proper credit, be sure to indicate Booster Club or Flower Fund on your check. Thanks!

UNITED STATES SUBMARINE FORCE LOSSES ON ETERNAL PATROL

“I can assure you that they went down fighting and that their brothers who survived them took a grim toll of our savage enemy to avenge their deaths.”

— Vice Admiral Charles A. Lockwood, USN

APRIL TOLLING OF THE BOATS



USS PICKEREL (SS-177)

Lost on April 3, 1943 *Pickerel* went down off Honshu on her seventh war patrol. The exact cause of her loss has never been determined, but her OP area was known to contain numerous minefields. Seventy-four officers and men were lost aboard *Pickerel*.



USS SNOOK (SS-279)

Lost on April 8, 1945 *Snook* ranks tenth among American submarines in total Japanese tonnage destroyed and is tied for ninth in number of enemy ships sunk. She was lost near Hainan Island, probably at the hands of a Japanese submarine. Eighty-four officers and men went down with her.



USS THRESHER (SSN-593)

Lost April 10, 1963 *Thresher* was America's first nuclear submarine casualty and an especially tragic loss given that seventeen civilian technicians went down along with her crew of 112—the largest number ever lost aboard a single U.S. submarine. *Thresher*, a brand new boat, had been participating in deep-dive exercises. Fifteen minutes after reaching test depth, she informed USS *Skylark* she was having problems. *Skylark* heard noises like “air rushing into an air tank”—then silence. Rescue ship *Recovery* (ARS-43) subsequently recovered bits of debris, including gloves and internal insulation. Photos later provided by *Trieste* proved *Thresher* had broken up, taking all hands to their deaths at 1,400 fathoms some 220 miles east of Boston. A combination of design flaws and poor workmanship were determined to have caused the disaster, errors fully corrected in all subsequent U.S. submarines in a program called SUBSAFE.



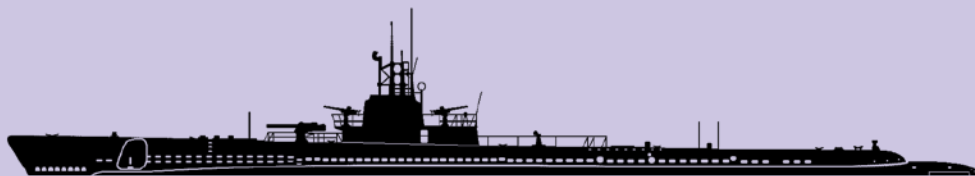
USS GUDGEON (SS-211)

Probably lost on April 18, 1944 southeast of Iwo Jima—but possibly lost instead on May 18, 1944, in a different attack on an unidentified boat heard by other American submarines in the area—USS *Gudgeon* went down with seventy-nine men aboard. A recipient of five Presidential Unit Citations, she was on her twelfth war patrol when she failed to return. *Gudgeon* was the first American submarine to sail out on a war patrol from Pearl Harbor after the Japanese attack. During that first patrol, she also became the first U.S. submarine to sink an enemy warship, picking off the Japanese submarine, *I-173*.



USS GRENADIER (SS-210)

Lost on April 22, 1943 near Penang, with no immediate loss of life, *Grenadier* had been stalking a convoy during her sixth war patrol when she was spotted by a plane and dove. Passing 130 feet, she suffered severe damage from a bomb. Now stuck on the bottom at 270 feet, her crew spent hours fighting fires and flooding. *Grenadier* later struggled to the surface, but was without propulsion and soon attacked by another plane, which she managed to shoot down. Once enemy ships arrived though, the CO was forced to abandon ship and scuttle the boat. Of *Grenadier*'s seventy-six crew members taken prisoner, seventy-two survived the war.



WE REMEMBER For those who gave their lives in defense of our country WE REMEMBER

Summing Up *Ohio*-Class SSGN

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capacity by 2,000+ cells.

- Block V *Virginia*-class subs with the Virginia Payload Module (40 TLAMs) mitigate but can't replace the load; twenty-two would be needed, and deliveries lag due to *Columbia* SSBN priorities.

- A future Large Payload Sub won't arrive until ~2044, leaving a long strike and spec-ops gap.

The U.S. Navy's *Ohio*-Class SSGNs Are Retiring—Here's What We Lose

The *Ohio*-class SSGNs are a unique class of nuclear-powered attack submarines which have been converted to launch Tomahawk cruise missiles instead of long-range ICBMs. These submarines are designed to fill a specific niche in the submarine forces and provide support for special ops forces.

The U.S. Navy currently operates four SSGNs, which include USS *Ohio*, USS *Michigan*, USS *Florida*, and USS *Georgia*. However, these four submarines are all scheduled to be decommissioned between 2026 and 2028. With no

suitable replacements announced, the Navy is set to lose a significant amount of undersea TLAM capability.

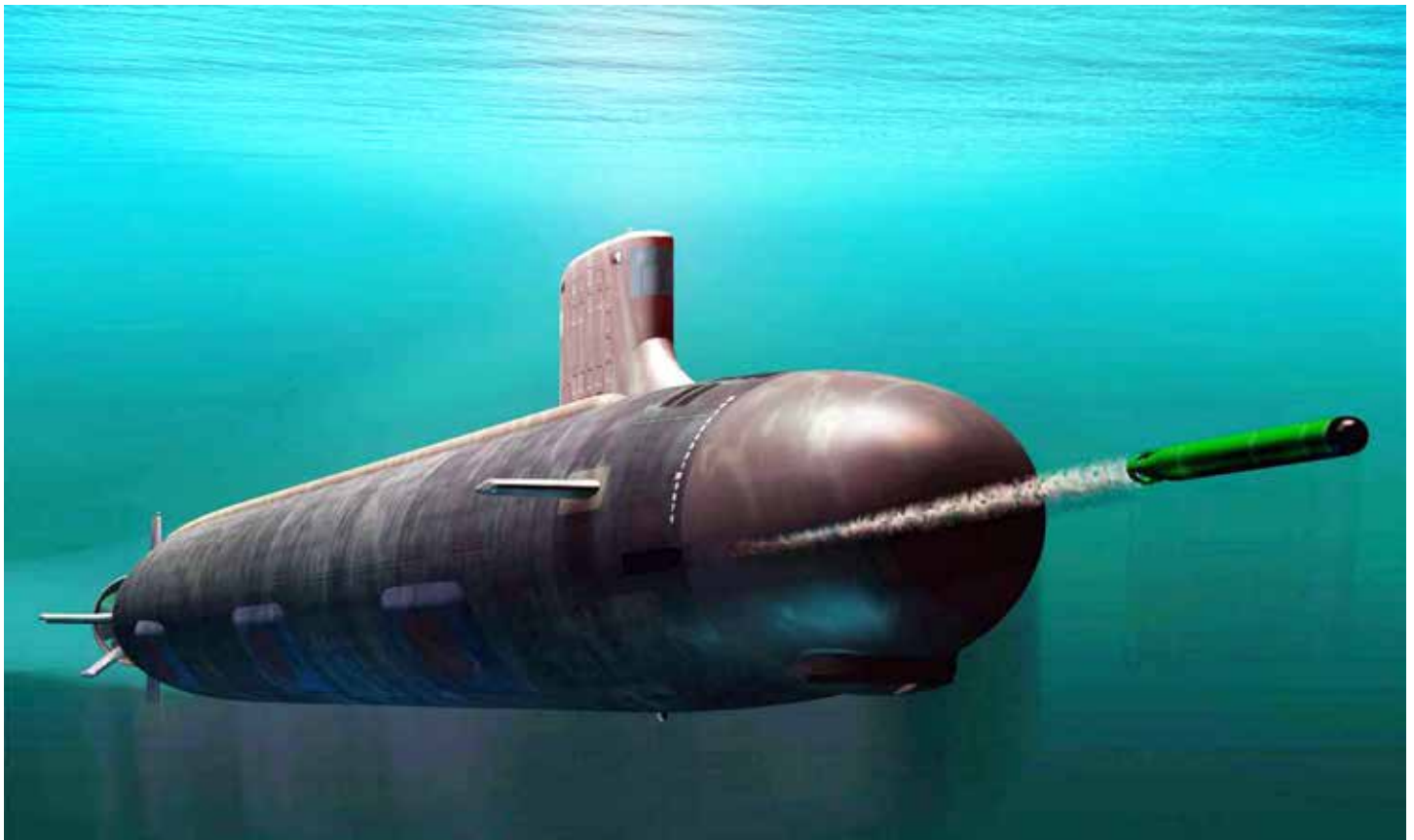
The Navy's *Ohio*-Class SSGN Nightmare in One Word: Retirement

Originally constructed in the 1980s as SSBNs (ballistic missile submarines), the *Ohio*-class boats were designed to carry Trident nuclear missiles as part of the United States' strategic deterrent. However, following the 1994 Nuclear Posture Review and the START II treaty, the Navy reduced its SSBN fleet from eighteen to fourteen submarines.

Four of the oldest *Ohio*-class SSBNs were selected for conversion into SSGNs between 2002 and 2008. These conversions were extensive and transformative. The submarines traded their twenty-four Trident missile tubes for twenty-two tubes capable of launching up to 154 Tomahawk Land Attack Missiles (TLAMs).

They were also modified to support Dry Deck Shelters, SEAL Delivery Vehicles, and up to sixty-six Special Forces personnel, making them highly versatile platforms for both

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Virginia-class submarine (SSN-774)—intended as partial relief for the retiring SSGN boats. (Artist rendering from U.S. Navy.)

Summing Up Ohio-Class SSGN

(concluded from page 8)

strike and covert operations.

Despite their continued utility, the *Ohio*-class SSGNs are now over forty years old. Their nuclear reactors are aging, and maintenance costs are rising. The Navy's thirty-year shipbuilding plan confirms their retirement schedule, with USS *Ohio* and USS *Florida* set to retire in 2026, followed by USS *Michigan* and USS *Georgia* in 2028. The decision to retire these submarines is based on their age and the limitations of extending their service life further.

While they remain effective, the cost and complexity of maintaining them beyond their planned lifespan outweigh the benefits, according to the Navy.

A Huge Capability Loss

The retirement of these submarines will result in a dramatic reduction in the Navy's vertical launch system (VLS) capacity. Each *Ohio*-class SSGN carries up to 154 Tomahawk missiles, meaning the loss of all four submarines equates to a reduction of 616 VLS cells dedicated to long-range strike missions.

This is a significant blow to the Navy's ability to project power from stealthy platforms. In fact, the *Ohio*-class SSGNs represent more than half of the submarine force's vertical launch payload capacity.

When combined with the planned retirement of the *Ticonderoga*-class cruisers, each of which carries 122 VLS cells, the Navy will lose over 2,000 VLS cells by 2027.

This reduction comes at a time when peer adversaries, such as China and Russia, are expanding their naval capabilities, thereby increasing the strategic importance of maintaining a robust strike capacity.

To mitigate the loss of the *Ohio*-class SSGNs, the Navy is procuring Block V *Virginia*-class submarines equipped with the Virginia Payload Module (VPM). Each VPM adds four large-diameter vertical launch tubes capable of carrying up to 28 Tomahawk missiles. This increases the total missile capacity of Block V boats from 12 to 40.

However, even with these enhancements, a single Block V *Virginia*-class submarine carries less than one-third the missile load of an *Ohio*-class SSGN. To match the lost payload capacity, the Navy would need twenty-two Block V submarines; but production delays, exacerbated by the *Columbia*-class SSBN program, mean these boats won't be

fully operational until well into the 2030s.

Summed Up in One Word: Irreplaceable

The Navy's long-term shipbuilding plan includes the development of what some have called Large Payload Submarines, potentially derived from the *Columbia*-class SSBN design. These vessels are intended to replicate or exceed the capabilities of the *Ohio*-class SSGNs.

However, the first of these submarines is not expected to enter service until 2044 at the earliest. A full fleet of seven Large Payload Submarines may not be realized until 2053, leaving a decades-long capability gap.

In the meantime, the Navy may rely on *Arleigh Burke*-class destroyers, which have VLS cells for Tomahawk missiles, and existing *Virginia*-class submarines, some of which are equipped with Dry Deck Shelters for special operations. However, none of these platforms can fully replicate the unique combination of firepower, stealth, and special operations support provided by the *Ohio*-class SSGNs.

This is a potentially dangerous mistake that the Navy is making for several reasons. First, it reduces the Navy's first-strike capability: the ability to launch over 600 Tomahawk missiles from stealthy platforms is a critical asset in any major conflict, especially in the Indo-Pacific theater. Second, it results in the loss of covert special operations support: these submarines are uniquely suited for clandestine missions, capable of deploying SEALs and unmanned systems while remaining submerged. Third, it limits command and control capabilities: the SSGNs serve as underwater command centers, fusing intelligence and coordinating operations in contested environments. Finally, their loss may erode deterrence: the visible presence of *Ohio*-class SSGNs has been used to signal strength during geopolitical tension. Their absence could embolden adversaries.

Isaac Seitz, a Defense Columnist, graduated from Patrick Henry College's Strategic Intelligence and National Security program. He has also studied Russian at Middlebury Language Schools and has worked as an intelligence Analyst in the private sector.



PRIDE RUNS DEEP

China's New Missile Sub Could Hit the U.S. Without Leaving Home Waters

China has taken a massive leap in its underwater nuclear arsenal. With quieter propulsion, a longer missile reach, and a stealthier design, the new Type 096 submarine signals a major change in global naval dynamics.

(Reproduced from the Defense Industry website - Published January 15, 2026.)

by Slamani Aghilas

<https://indiandefencereview.com/chinas-new-missile-sub-could-hit-the-u-s/>



Type 096 submarine from China. (Image Credit: Creative Commons.)

China has quietly unveiled the most ambitious upgrade yet to its undersea nuclear force. The Type 096 *Tang*-class ballistic missile submarine, revealed by state media on January 14, could push the balance of power beneath the waves into new and uncertain territory. With its larger displacement, quieter design, and longer-range missiles, the *Tang* class marks a sharp break from China's earlier deterrent strategy.

While the United States and Russia have long dominated the deep-sea leg of the nuclear triad, China has now positioned itself closer than ever to parity in sea-based nuclear capabilities. This development follows a steady climb in Chinese naval production and a dramatic leap in submarine

design, challenging assumptions about how far the People's Liberation Army Navy (PLAN) could go, and how fast.

The strategic implications of the Type 096 go well beyond tonnage and missile counts. By combining stealth, endurance, and nuclear reach, China seems to be preparing for a continuous at-sea deterrence model long practiced by the U.S. Navy. The shift is being closely tracked in Washington, where officials have already expressed concern over falling behind in both production pace and technological integration.

Larger, Quieter, and Built for Survivability

According to Chinese state media, the Type 096 displaces

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New Chinese Type 096 Submarine

(concluded from page 10)

between 15,000 and 20,000 tons submerged, placing it squarely in the strategic class of submarines alongside the U.S. Navy's *Ohio*-class and upcoming *Columbia*-class boats. That size increase isn't just for extra room. It reflects a shift in design philosophy. Chinese engineers appear to have broken past long-standing limitations tied to reactor efficiency and internal volume, which in previous classes had prevented full implementation of noise-reducing features.

The new submarine reportedly includes full raft-mounted machinery, hull isolation systems, and a propulsion layout designed to reduce detectable noise during patrols. Figures released in January suggest an acoustic signature of 95 to 100 decibels, considerably quieter than earlier PLAN SSBNs, which had been considered too loud for credible open-ocean deterrent patrols. Analysts cited by Army Recognition have drawn comparisons with Russia's *Borei*-class submarines, hinting that Moscow's assistance may have accelerated China's advances in vibration and noise control.

A Leap in Firepower and Strategic Reach

The biggest shift may be in armament. The *Tang* class is believed to carry between sixteen and twenty-four JL-3 submarine-launched ballistic missiles. That's double the capacity of the previous *Jin* class, and each missile reportedly has a range of approximately 14,000 kilometers. These weapons are also capable of carrying six to ten MIRVs (multiple independently targetable reentry vehicles) meaning one submarine can now deliver a nuclear payload equal to several land-based units

According to the same report published January 14, this level of firepower allows the PLAN to strike targets on the U.S. mainland directly from patrol zones in the South China Sea or Bohai Gulf, without the need to pass through contested maritime chokepoints. This effectively shortens the launch window and increases survivability in the event

of a crisis. The configuration brings China's deterrent strategy in line with the continuous patrol model long maintained by the United States, which relies heavily on the stealth and persistence of submarines like the *Ohio* class.

Growing Fleet, Shrinking Gap with Russia and U.S.

While the Type 096 has grabbed headlines, China's broader submarine fleet is also expanding at pace. As reported by *Military Watch* magazine, the PLAN now operates an estimated thirty-two active nuclear-powered submarines, surpassing Russia's count of twenty-five to twenty-eight. This includes fourteen of the newer Type 093B-class attack submarines, alongside nine Type 094/094A ballistic missile submarines and older variants.

Much of the recent growth stems from high-volume production of the Type 093B, a class expected to carry YJ-19 hypersonic cruise missiles and YJ-20 ballistic missiles. These vessels are seen as a transitional platform before the arrival of the more advanced Type 095 class. One hull of the Type 095 is already under early assembly, and the first Type 096 submarine is reportedly under construction as well. According to former U.S. Navy officer Christopher Carlson, the incoming generation (especially the Type 095) "will be very quiet," raising fresh challenges for U.S. anti-submarine tracking efforts.

Taken together, the current trajectory of China's undersea fleet points to a well-funded, technically sophisticated push to close long-standing gaps in global submarine capability. The margin of U.S. superiority is no longer as wide as it once was, and with shipbuilding capacity in American yards lagging behind demand, the race beneath the waves may be entering a new phase.

Slamani Aghilas is a Master's graduate in Automation and Industrial Computing (2022).

Norway Signs Contract with TKMS for Two More Modern 212CD Submarines

by Martin Chomsky (Defence Industry Europe website; published January 30, 2026)

<https://defence-industry.eu/norway-signs-contract-with-tkms-for-two-more-212cd-submarines-total-german-norwegian-order-reaches-twelve/>

Norway has signed a contract with Thyssenkrupp Marine Systems for two additional Class 212CD submarines, increasing its planned fleet from four to six boats. The agreement was concluded by the Norwegian defence procurement agency, and means that Norway and Germany will operate a combined fleet

of twelve identical modern subs in the future.

The contract signing in Oslo is in line with Norway's Long-Term Defence Plan for 2025–2036, reflecting increased requirements for national readiness and allied deterrence in the north.

Bluejackets Trav'lin' Light *by Bob "Dex" Armstrong*

Nobody understands the term "traveling light" like submarine sailors. Being assigned to an operating boat reduced the level on par with folks who lived in stick shacks up the Orinoco River. The Navy had this idea that an E-3 could survive owning no more personal stuff than you could compress into your mother's bread box. Guys who live in refrigerator crates under the bridge control more stuff than boatsailors.

Remember when you left "the Lakes" with your original issue? Damn seabag weighed ten pounds more than a railroad locomotive. Had one strap that you put over your shoulder so the uneven load could warp your spine. The combined weight of a wet peacoat and a "fresh outta bootcamp" seabag could crush your ankles, snap your legs and drive your pelvis through your adenoids.

When you reported aboard you had dress blues, a Donald Duck flat hat, six raghats, four sets undress blues, four sets of whites, four belts (two blue and two white with Brassod buckles), regulation neckerchief rolled in prescribed manner, thirty-eight pairs of black socks, underwear, writing paper, manicure set (graduation gift), five-pound steam iron, five paperback skin books, a shaving kit stocked like your mother's medicine cabinet, and a pair of general purpose shoes.

When I left years later, everything I owned fit in half an AWOL bag. Six ratty t-shirts, eight pairs of white socks, a set of seafarer blues with custom-made zippered secret pocket in thirteen button flap, copy of *Playboy*, pipe with Sir Walter Raleigh pipe tobacco, two decks of worn out Bicycle cards, church key and keys on a halyard clip, Zippo, three packs of sea stores smokes, girlfriend's photo, two pairs of Dolphins in Bull Durham bag, shaving kit (douche bag) containing toothbrush, Gillette safety razor, pack of Blue Blades, seaman's knife, pack of Trojans, half a bottle of Aqua Velva, assorted change, and locker club key. This was a complete inventory of my earthly goods. I had tossed what was left of my issued gear on a messdeck table and told the crew to take anything they needed or wanted.

You didn't acquire a lot of stuff on E-3 sea and foreign duty pay. And submarine pay.

I have no idea what going to sea on submarines is like today. When you look at the size of the big iron monsters, I figure E-3s probably have their own private compartments with their own desk and dual armoire. And can haul their own private home entertainment center to sea with them too.

We used to homestead abandoned side lockers like western claim jumpers. Every now and then, the COB would step forward at morning quarters and yell, "Okay ladies, LISTEN UP! I get the feeling that a few inequities in the distribution of After Battery real estate have crept into the 'Thou shall not hog sidelockers' creed of submariners. So, this is how it's gonna work. After I dismiss you, we are all gonna reassemble in the crew's hog wallow and open side lockers. Anyone not having a key, will get to watch his lock cut off with this pair of United States Navy handy dandy bolt cutters. Any locker not claimed by a man present will become the immediate property of the lucky bag and containing gear adrift, which will be declared ship's property. Any questions?"

"Yeah, Chief: I wanna lawyer."

"I wanna protest."

"I want my mother."

"What happened? You damn Chiefs run outta clean socks?"

Then we would drop down below and it would begin.

"What have we here?"

(Note: 'What have we here' is Chief Petty Officer complete bullshit lingo. The bastard knows full well what he has clutched in his mit: a fifth of Jim Beam. So what's all this 'What have we here?' bullcrap?)

"Where did you naughty little lads find this jug of adult beverage?"

"Tooth Fairy."

"Naw, Chief, it was probably left there by some poor chief that's gone to meet his maker. Some worthless old sonuvabitch that got pushed over the side one night for screwing with ship's company sidelockers."

"Nice try, Sweetcakes. I think it's more like a forgotten present for me. Consider this to be your thank-you note."

"Hope you choke on it."

"E-8s don't choke on whiskey, Sweetpea."

"What have we here? Looks to be a hidden stash of naughty books. Hmmm... *Truckers' Babe, Boarding School Nym-*

(concluded on page 13)

Bluejackets Trav'lin' Light... by Dex Armstrong

(concluded from page 12)

pho, Wanton Woman, Swamp Girl, Dr. Won's Deflowered Maidens, School for Sex... Where do you children obtain such literary trash? This stuff will rot your brains."

"If that's so, you'd better check the wardroom because a lot of that so-called literature resulted from trade negotiations with the gentlemen up forward."

"In that case, let me refer to this as the new 'all hands' circulating library. Leave the lock off and thank you all for thoughtfully assembling this classic collection for the entire crew to enjoy."

"Chief—you tryin' to ruin the economy back here?"

"What have we here? Misappropriated ship's peanut butter? Vienna sausage too. Crackers. Velveeta cheese. Sugar Crisp. Grape Nuts... Do we have some lowlife thieves racking out back here?"

"No, Chief. That's the loading party import tax deposit locker used to sustain the home for poor unwanted E-3s."

"Hey, cookie: you need any of this stolen shit?"

"Naw, let 'em have it. If they quit leaving cracker crumbs and

stuff back all over the Alley deck, the roaches will get anemic."

"And what do we have here?"

"Chief, we've been stealing all the Road Runner cartoons off all the sea print films. We have curated that collection. Those five reels contain three-and-a-half hours of continuous, uninterrupted Wiley Coyote action. What you hold in your hand is quite possibly the single most valuable item in the entire Submarine Force—and Rickover doesn't even know about it! You mess with that and it wouldn't surprise me none if, on some dark night, the Phantom or Zorro or some other mystery moron don't pee in your seaboots."

And so it went. Like the Tax Assessor going through personal property down on skid row. We were the poor folks who truly had nothing. And once you left the pier, the only currency worth a damn was skin books and cigarettes.

We traveled so light, in fact, that we left all the card deck Jokers in the pier dumpster.

Keep a zero bubble...

Dex.



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USS *Hyman G. Rickover* (SSN-795)

USS *Montana* (SSN-794)
USS *North Dakota* (SSN-784)
USS *Kentucky Blue* (SSBN-737)
USS *Kentucky Gold* (SSBN-737)
USS *Maine Blue* (SSBN-741)

Questions?

Jack Messersmith
(928) 227-7753
or e-mail
MesserJ109@gmail.com

New Members

We proudly welcome aboard:

Larry Roger Duncan
ETR2(SS) E-5 Petty Officer (2nd)
Contact: daughter Koa
cell: 714-394-4330
email: LarryDuncan00@gmail.com
Qualified in 1972 on USS Pogy
(SSN-647); served 1968-1974.
Also on USS Neches (AO-47).

Bruce William Danielson
EM2(SS) E-5 Petty Officer (2nd)
Contact/Spouse: Jerilyn
cell: 626-221-1840
email: Buster@LogRoom.com
Qualified in 1973 on USS Gurnard
(SSN-662); served 1970-1976.
Audio production; motorcyclist.

Scot Michael Schuman
RM2(SS) E-5 Petty Officer (2nd)
Contact/Spouse: Arenia
cell: 909-525-0718
email: scot.schuman@yahoo.com
Served on *Thomas Jefferson* (SSBN-618) and *Jacksonville* (SSN-699).
Active Reserve duty too. Diver.

Bradley N. Proffitt
Life Associate. Contact: Brother,
George. Sponsor: Bill Moak. (Brad's
dad Floyd was a WWII subvet.)
cell: 805-705-3137
email: bradsabbfan@gmail.com

Bach Ngoc Fleming
Associate; spouse: Rob Fleming
cell: 714-357-0293
email: bachfleming@gmail.com

Robert "Rob" Fleming
O3-LT(SS) Spouse: Bach Ngoc
cell: 714-334-0552
email: robflem@yahoo.com
Qualified in 1960 on *Segundo*
(SS-398); served 1958-1987.



"Get'cher Chapter News Here — Read All About It! —"

When News Breaks, We Pick Up the Pieces...



(Member David Semrau reports in below—via Membership Chair Marilyn Senior—about his recent birthday.—ed.)

My birthday was great and I got my subvets birthday card from the base. I was in San Diego at subbase Point Loma attending the Naval Submarine League luncheon at the time.

The Chief of Naval Operations gave a presentation and I was able to talk with him afterwards. I asked him about the submarine force someday returning to Holy Loch, Scotland, out of which my own boat, *John Marshall* (SSBN-611) had operated. Last year, U.S. Navy personnel had spent time at Holy Loch observing how the Loch had recovered after SUBRON 14 departed in 1992 after mooring there for thirty-one years. The Scots are hoping we'll return (they really miss us and our Hershey's chocolates!). But the CNO told me we're not going back to Holy Loch.

The luncheon was sold out! At these monthly Point Loma luncheons (held the second Tuesday of every month—except July and August) the Naval Submarine League buys the meals for the active duty personnel. We subvets get to enjoy chatting with them and giving advice.

The Admiral joked, "Am I shrinking?!" as he posed for photos. He's Four Stars! Chief of Naval Operations. And he's a submariner! And one with great intellect.

Also seen here is a card sent to me by my sister. The car in the card photo is shown in the Hollywood Christmas Parade. My 1973 Chevy Caprice convertible was in that parade in 2023, 2024 and 2025. And of course, was also in the 2025 Huntington Beach Parade. It's here to remind our "Submarine Sea Dogs" out there about our next Huntington Beach parade. I'll be driving again this year....

(David took sick for a week after the Navy League luncheon, but recovered in time to make it to our base luncheon meeting on the 21st.—ed.)

(more next page)



More Chapter News...

L.A.-Pasadena Base Gathers Again at the Military Museum in Simi Valley

Here's a few pics from our merry March meeting.



Bill Moak and Darin Detwiler present Nigel Boucher, VFW, curator of the museum, with a Certificate of Appreciation.



What good's a meeting in a storied military venue without a group shot?



L.A.-Pasadena Base monthly meeting venues to come. (See calendar, page 16.)

"Let's eat!" Getting down to some serious scarfing after the meeting.



L.A.-Pasadena Base 50-Year Holland Club

(75-year members noted with *)

Arthur B. Schwartz..... 2025
 Scott Hultner..... 2024
 Stanley O. Westrick 2024
 Bruce Danielson 2023
 Ronald R. Jones..... 2023
 Larry Duncan..... 2022
 Gerard A. Krudwig..... 2022
 Gregory M. Paulson 2022
 Michael J. Swanson..... 2022
 Ralph J. Hansen 2021
 Robert F. Schive, Sr..... 2021
 Larry D. Long..... 2021
 G. Judson "Jud" Scott, Jr.... 2021
 Edward E. Kushins 2020
 Bruce Evan Neighbors 2020
 Frank M. Bereznyay 2019
 David H. Vanderveen..... 2019
 Dennis Bott 2018
 Robert "Mike" Cailor 2018
 Robert Miller..... 2018
 Roger C. Dunham, MD ... 2017
 Richard McPherson..... 2017
 Harry "Bill" Moak..... 2017
 Elliot Rada 2017
 Ronald G. Wagner 2017
 Dennis J. Walsh..... 2017
 Michael Kish 2016
 Charles B. McCarthy, Jr.... 2016

(concluded next page)

Los Angeles-Pasadena Base 2026 Calendar of Upcoming Events

January 17	Monthly Meeting - "Hobo Stew Day"
February 21	Monthly Meeting - Firefighter Museum
March 21	Monthly Meeting - Simi Valley Military Museum
April 16-19	Western Regional Roundup (Las Vegas)
April 18	Monthly Meeting - VIRTUAL only - 1100 hours LINK: https://northeastern.zoom.us/j/96442001535 Meeting ID: 964 4200 1535
May 16	Monthly Meeting - Marni's Restaurant (formerly "Glory Days") 620 Pacific Coast Hwy., Seal Beach, CA 90740 https://www.marnisoc.com . Nominating Committee Appointed
May 16	Pat Zilliacus' 100th birthday party: 2:00 pm at... Westchester Sr. Center, 8740 Lincoln Blvd., Los Angeles, CA 90045 (For more info., please call 310-649-3319).
May 25	Memorial Day Ceremony - Coordinated with S.B. Lions Club Eisenhower Park (north side of Seal Beach Pier)
June 13	Seal Beach Health Expo Pop-up Event
June 20	Monthly Meeting - Los Angeles County Fire Museum 16400 Bellflower Blvd., Bellflower, CA 90706 https://www.lacountyfiremuseum.com/ Call for nominations for 2027 Base Officers
June 27	Pop-up Event at the Seal Beach Pier
July 4	Annual Fourth of July Parade in Huntington Beach
July 18	Monthly Meeting (Location TBD)
August 15	Monthly Meeting - "Hawaii" Theme - Dennis Walsh's home in Brea 2027 Base Officer Candidates Announced
September 6-11	USSVI National Convention in Corpus Christi, Texas
September 19	ANNUAL BUSINESS MEETING Election of Officers (Location TBD)
October 17	Monthly Meeting Annual Officer Installation Luncheon (Location TBD)
November 21	Monthly Meeting - "Thanksgiving" Theme (Location TBD)
December 5	Pop-up Event at the Seal Beach Pier
December 19	Annual Christmas Luncheon at the Navy Golf Course 5660 Oranewood Ave., Cypress, CA 90630

(Holland Club Roster, concluded)

Gary Wheaton..... 2016
 Lawrence R. Butler 2015
 Samuel T. Higa 2015
 Harry P. Ross..... 2015
 Charles H. Senior 2015
 Larry E. Smith..... 2015
 Sam Aboulafia..... 2014
 David Palagyi 2014
 Earl Thomas Peratt, Jr. 2014
 David D. Semrau, DDS.... 2014
 Ray Tracy Teare..... 2014
 Milton Harry Boudov 2013
 Kenneth Jon Dorn 2013
 M. Mark Hoffer..... 2013
 Michael P. Klein 2013
 Ronald L. Levenson..... 2013
 Edward L. Arnold..... 2012
 T. Michael Bircumshaw ... 2012
 Raymond Cheesebrough . 2012
 John V. Mahan 2012
 Lee Melody 2012
 Clyde Matthew Turner.... 2012
 George R. Walrath..... 2012
 John L. Weisenberger 2012
 Edward A. Barwick 2011
 Joseph W. Koch, Jr. 2011
 Robert E. Fleming 2010
 Stephen D. Diumentti 2009
 David Whittlesey 2009
 Dennis A. Yure..... 2009
 Armen Bagdasarian..... 2008
 Paul A. Riggs 2008
 Rex L. Shields..... 2008
 Francis R. Traser 2006
 Ronald K. Thompson 2004
 James Rogers 2003
 *William F. Long..... 1999
 *Patrick Zilliacus. 1994
 *William J. Dillon 1993



E-Board Meeting Minutes of March 21, 2026

The Los Angeles-Pasadena Base, United States Submarine Veterans, Inc., Executive Board Meeting was conducted at the VFW Military History Museum in Simi Valley, CA on Saturday morning, March 21, 2026. A quorum was met.

In attendance:

- Darin Detwiler, Base Commander
- Ray Teare, Base Vice Commander
- Stan Westrick, Base Secretary
- Sue Bolton, Base Treasurer
- Dennis Bott, Memorial Director
- Ken Dorn, Director
- Chuck Senior, Director
- Marilyn Senior, Membership Director
- Bill Moak, COB
- Dave Vanderveen, Past Commander
- Mike Swanson, Past Treasurer

Base Commander Darin Detwiler called the meeting to order at 1009 hours. Minutes of the prior E-Board and General meetings were reviewed. Ray Teare moved to accept the minutes into the base record; this was seconded by Dennis Bott and the motion carried.

Treasurer's Financial Report: Sue Bolton

The Treasurer's Report as of March 20, 2026 was read into the Minutes by Base Treasurer Sue Bolton.

Checking	\$28,261.70
Cash On Hand	\$50.00
Uncleared Checks:	\$0.00
Total	\$28,311.70

Expenses:

Checks, National, Flowers	\$343.01
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All bills have been paid.

Income/Donations:

Ken Dorn	\$200.00
Bill Moak 50/50 (\$25.00)	\$50.00
Misc. Donations	\$30.00
Dues, National & Base	\$610.00

Flower/Booster Club Additions:

Larry Lovett/Flower Fund	\$100.00
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There were no questions nor corrections needed. Stan Westrick moved to approve the Treasurer's Report and accept it into the base record; this was seconded by Chuck Senior and the motion passed.

Membership Update:

Marilyn Senior (Membership Chair) reported that the base membership now stands at 100. Holland Club has 67 members, 68 USSVI Life Members, 67 Base Life Members, and no Eternal Patrol notices. Three new members are now processed, two from the Silent Service Motorcycle Association and another (gained through the "Pop-Up at the Pier" in Seal Beach) who is now a USSVI Life Member. We also have one prospective member gained through networking with the Seal Beach Chamber of Commerce.

(concluded on next page)

Royal Navy Launches First Unmanned Sub

(from the Navy Lookout website;
published March 1, 2025)

<https://www.navylookout.com/cetus-the-royal-navys-first-uncrewed-submarine-launched/>

CETUS is the first Extra Large Underwater Autonomous Vehicle (XLUAV) technology demonstrator to be owned by the Royal Navy. It was designed and built from scratch under the auspices of the Submarine Delivery Agency's Autonomy Unit (SDA-AU).

CETUS will be the largest and most complex unmanned submersible operated by any European navy. It is officially described as "A representative large-scale AUV demonstrator to build trust in long endurance autonomous operations and be an adaptable testbed for mission payloads". The vessel displaces seventeen tonnes and is twelve metres long and 2.1 metres in diameter."

The production vessel appears to closely match the model shown at DSEI in 2023 and the CGI renders issued at the time of the contract announcement. The standard Main Payload Space (MPS) in the centre has a 2m x 2m x 2m capacity and there are small secondary payload spaces in the upper fore-end and lower aft end, likely to be occupied by sensors. The MPS has doors top and bottom that allow items to be loaded in from above and to exit from the underside of the craft when deployed underwater. Examples of potential payloads could include an ROV deployed on an umbilical from the mission bay and an Autonomous Underwater Ground Vehicle (AUGV) lowered to transit across the seabed.

CETUS is the next step on the way to the RN acquiring a large fleet of XLUAVs to add mass to its underwater battlespace capabilities and supplement its small SSN fleet. CETUS will be used to conduct a series of increasingly complex trials relevant to its operational environment.

E-Board Meeting Minutes...

(concluded from previous page)

Memorial Update:

Darin discussed the status of the work request for a new door and jamb—both needed for the podium. Darin then discussed how he had met with the Naval Weapons Station leadership and learned how the current military security level is such that all public activities on the base are prohibited. As a result, we cannot hold our Memorial Day ceremony at the U.S. WWII Submarine Veterans National Memorial West. After a few options were discussed, along with priorities and other considerations, Ray Teare moved and Dave Vanderveen seconded a motion to relocate the 2026 ceremony to the Seal Beach Pier. Six Yeas and One Nay was the vote. The motion carried.

Dave Vanderveen moved and Dennis Bott seconded a motion to establish a team to work with the organizers to help with plans to make a smooth transition for the 2026 ceremony at the Seal Beach Pier. Motion carried. Dennis Bott, Darin Detwiler, Chuck Senior, and Dave Vanderveen were identified as likely participants.

Old Business:

The discussion included Holland Club challenge coins (Darin will connect with Jim Irwin regarding the acquisition of more coins). Bill Moak moved and Dennis Bott seconded a motion to purchase a half-page ad in the 2026 National USSVI Convention program magazine. Cost: \$175.00. Motion carried. Darin will draft a few options for this ad.

The upcoming Western Regional Roundup in Las Vegas was discussed, and additional discounted rooms are now available on the Roundup website. The April 18 Regular Meeting will be virtual at 1100 since many members are attending the roundup in Las Vegas. For those who wish to join, here is the link: <https://northeastern.zoom.us/j/96442001535> and Meeting ID: 964 4200 1535.

The 4th of July Huntington Beach Parade:

Sue Bolton reported that motorcycles are not allowed. Stan Westrick noted that he has a vehicle with a hitch. Dave Vanderveen discussed renting a flat trailer to transport participants.

New Business:

A question was raised regarding the decision of a charitable donation for 2026. Darin will bring an answer on that ASAP.

Members signed up to participate in the Huntington Beach 4th of July Parade. Darin gained volunteers for the Seal Beach Pop-Up at the Pier events (June 13, June 27, and December 5). Any members interested in signing up for a two-hour or a four-hour shift at these events (being an ambassador for our base), please contact Darin Detwiler at (425) 232-5743 or ddetwiler680@gmail.com.

There being no further business, Dave Vanderveen motioned for adjournment; this was seconded by Bill Moak and passed, ending the meeting at 1112 hours.

Respectfully submitted,

Stan Westrick

Secretary, L.A.-Pasadena Base, USSVI



PRIDE RUNS DEEP



USS Los Angeles (SSN-688) in San Pedro for her decommissioning ceremony in January of 2010.

*In memory
of the
fifty-two
submarines
lost in
World War II*

SEALION
S-36
S-26
SHARK I
PERCH
S-27
GRUNION
S-39
ARGONAUT
AMBERJACK
GRAMPUS
TRITON
PICKEREL
GRENADIER
RUNNER
R-12
GRAYLING
POMPANO
CISCO
S-44
DORADO
WAHOO

CORVINA
SCULPIN
CAPELIN
SCORPION
GRAYBACK
TROUT
TULLIBEE
GUDGEON
HERRING
GOLET
S-28
ROBALO
FLIER
HARDER
SEAWOLF
DARTER
SHARK II
TANG
ESCOLAR
ALBACORE
GROWLER

SCAMP
SWORDFISH
BARBEL
KETE
TRIGGER
SNOOK
LAGARTO
BONEFISH
BULLHEAD

