



"To Honor Those Who Serve, Past, Present & Future"

February 2015

Volume 16, Issue 02

**Lest We Forget —  
"The USSVI Submariner's Creed"**

**To perpetuate the memory of our shipmates who gave their lives in the pursuit of their 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.**

**Inside This Issue:**

Meeting minutes	2
Lost Boats	3
Ultra-fast propulsion	3
USS Illinois news	5
Cold War Spying at Sea	7
Contact information	8
Fundraiser registration	9
Application form	10

**News Brief**

1. **Next Meeting:** At 1100, third Saturday of each month at the Knollwood Sportsman's Club. Mark your calendars for these upcoming dates:
  - a. FEBRUARY 21
  - b. MARCH 21
  - c. APRIL 18
2. **Duty Cook Roster:**
  - a. FEBRUARY – GLENN BARTS, SR.
  - b. MARCH – CHRIS GAINES AND TOM POLZIN
  - c. APRIL – SEE YOUR NAME HERE
3. **February Birthdays:** Don Robbins 4<sup>th</sup>; Leon Lemma 6<sup>th</sup>; Rich Behnke 8<sup>th</sup>; Eric Hansknecht 11<sup>th</sup>; Larry Heckelsmiller 12<sup>th</sup>; Steve Benicke 12<sup>th</sup>; and Scott Jaklin 17<sup>th</sup>. Happy Birthday to All!
4. **Meeting Speaker Offer:** Chris Gaines and Frank Voznak have a standup presentation with slides to promote our Memorial. The presentation takes 15-20 minutes. Shipmates are requested to provide contact information for groups to which they belong (veteran, fraternal, professional, social) that may need breakfast, luncheon or dinner speakers. Contact us to schedule your event.
5. Our 2015 **Submarine Birthday Ball** has been repurposed as a **fundraiser** for our Chicago WWII Submarine Memorial. See form on page 9. Proceeds will benefit the Memorial. Donations gratefully accepted even if you cannot attend. Every dollar received before May 1 helps as we apply for a matching grant.

## Crash Dive Meeting Minutes January 17, 2015

1. Attendees:
  - a. Clay Hill
  - b. Frank Voznak, Jr.
  - c. Terry Elmeier
  - d. Greg Miller
  - e. Ed Dowling
  - f. Ray Ratliff
  - g. Cris Pascual
  - h. Dick Anderson
  - i. Frank Walter
  - j. Larry Warnke
  - k. Ted Rotzoll
  - l. Ron Spooner
  - m. Herman Mueller
  - n. Glenn Barts, Sr.
  - o. Chris Gaines
  - p. Gus Yakes
2. Meeting was called to order by Clay Hill at 1103 followed by the Pledge of Allegiance, and a round of introductions.
3. Secretary's Report given by Chris Gaines. Ray Ratliff moved to accept; Herman Mueller seconded; vote was unanimous.
4. Treasurer's Report given by Glenn Barts. Savings \$1173.69; Checking \$4,689.41; Memorial Checking \$21,595.95; Memorial Savings \$5.00; Held by National \$5,240.00. Herman Mueller moved to accept; Greg Miller seconded; vote was unanimous.
5. Committee Reports
  - a. Newsletter – no news
  - b. Membership – no news
  - c. Charitable Service – Greg Miller presented his 2015 charitable giving plan. It includes Navy Marine Corps Relief Combat Casualty Assistance \$100; USSVI Brotherhood Fund \$100; Friends

of Fisher House \$50; USO Operation Enduring Care \$150. Glenn Barts moved to fund \$500 for 2015. Frank Walter seconded. Vote was unanimous.

Greg also recommends continuing waiving Base dues and paying national life dues WWII, grave markers, toiletries for USO, and the Toys for Tots program.

- d. Community Outreach – Ed Dowling and Greg Miller are going to Manitowoc on January 24 to work on the bow planes. The remaining scope of work will lead to a February working party. Weekend of July 11-12 WMM wants as many subvets as possible for the first annual SubFest. Wear vests and be conspicuous.
- e. Hospitality – Game Feast next Saturday; tickets are \$10 each. Spring cleanup date will be determined.
- f. Webmaster – Members are advised to check periodically for new items.
- g. Storekeeper – Getting ready for sales at the Banquet.
- h. Procedures – no news.
- i. Eagle Scout – Ted Rotzoll attended a conference and spread the word about our support of Eagle Scouts.
- j. Memorial –
  - i. Considering buying one scale model that is 15 inches in diameter and about 4½ inches high for approximately \$700.
  - ii. Letters to corporations results have been

- disappointing. In-person contact seems more beneficial. Plan to take the model for meetings.
- iii. Herman Mueller offers his model of the USS Paddle for use in fundraising.
  - iv. An anonymous shipmate offered to fund a scale model of the memorial at about \$750.
  - v. Recognizing largest donors is seen as detracting from the purpose of the memorial.
  - vi. Grant from State of Illinois Tourism Bureau is worth pursuing. It is a matching fund program. Program is on hold pending the new state administration. Raise funds aggressively and then apply before May 1.
  - vii. Chris Gaines and Frank Voznak have a standup presentation that takes 15-20 minutes. Shipmates are requested to provide contact information for groups to which they belong (veteran, fraternal, professional, social) that need luncheon or dinner speakers.
  - viii. Clay Hill will ask Karen Duvalle for a referral to a model builder who could fabricate a barge.
  - ix. Dick Anderson suggests asking employers if they match funds.
  - x. Continue to pursue *Freshwater Submarine* book deal with WMM.
  - k. Banquet
    - i. Group agrees to price at \$49.

- ii. "I am unable to attend but I would like to donate \$xx" to be added to the registration form.
6. Old Business
  - a. None.
7. New Business
  - a. None.
8. Good of the Order item:
  - a. SVWWII picnic is August 8, 2015.
  - b. Duty Cook
    - i. February – Glenn Barts, Sr.
    - ii. March – Corned Beef dinner by Chris Gaines and Tom Polzin.
9. Dick Anderson moved to adjourn, Ed Dowling seconded; vote was unanimous. Adjourned at 1245.

## Lost Boats

USS Barbel (SS-316)	2/4/45
USS Shark I (SS-174)	2/11/42
USS Amberjack (SS-219)	2/16/43
USS Grayback (SS-208)	2/27/44
USS Trout (SS-202)	2/29/44

## Octopus robot makes waves with ultra-fast propulsion

Thu, 02/05/2015 - 10:47am  
Glenn Harris, Univ. of Southampton

Scientists have developed an octopus-like robot, which can zoom through water with ultra-fast propulsion and acceleration never before seen in man-made underwater vehicles.

Most fast aquatic animals are sleek and slender to help them move easily through the water but cephalopods, such as the octopus, are capable of high-speed escapes by filling their bodies with water and then quickly expelling it to dart away.

Inspired by this, scientists from the Univ. of Southampton, Massachusetts Institute of

Technology (MIT) and the Singapore-MIT Alliance for Research and Technology built a deformable octopus-like robot with a 3D printed skeleton with no moving parts and no energy storage device other than a thin elastic outer hull.

The 30-cm-long self-propelling robot is inflated with water and then rapidly deflates by shooting the water out through its base to power its outstanding propulsion and acceleration, despite starting from a non-streamlined shape. As the rocket contracts, it can achieve more than 2.6 times the thrust of a rigid rocket doing the same maneuver.

It works like blowing up a balloon and then releasing it to fly around the room. However, the 3D printed polycarbonate skeleton inside keeps the balloon tight and the final shape streamlined, while fins on the back keep it going straight.

The robot is capable of accelerating up to ten body lengths in less than a second. In recent laboratory tests, the robot accelerated a one kilogram payload up to 6mph in less than a second. This is comparable to a mini-cooper carrying an additional 350 kg of weight (bringing the total weight of the car to 1,000 kg) accelerating from a standstill to 60mph in one second—underwater.

This performance is unprecedented in man-made underwater vehicles.

Dr. Gabriel Weymouth, lecturer for the Southampton Marine and Maritime Institute at the Univ. of Southampton and lead author of the study, says: "Manmade underwater vehicle are designed to be as streamlined as possible, but with the exception of torpedoes, which use massive amounts of propellant, none of these vehicles achieve speeds of even a single body length per second or accelerations of 0.1 g, despite significant mechanical complexity.

"Rigid bodies always lose energy to the surrounding water, but the rapidly shrinking form of the robot actually uses the water to help propel its ultra-fast escape, resulting in 53% energy efficiency, which is better than the upper estimates for fast-starting fish."

The researchers calculate that making the robot bigger would improve its fast-starting

performance, which could have applications in the development of artificial underwater vehicles that can match the speed, maneuverability and efficiency of their biological inspirations. The understanding this study provides could also have an impact in other engineering fields where drag is critical, such as airplane wing design, and to the study of different shape-changing biological systems.

The study is published in *Bioinspiration and Biomimetics*.

Source: [Univ. of Southampton](#)

## Navy Cooks



An admiral visited one of the ships of the line under his command. While eating breakfast with the crew he was impressed to see the Naval insignia stamped on every biscuit.

He went to the Chief cook to ask how this feat was done, so it could be used on other ships under his command. The Chief replied, "I'd be glad to share that with you, Admiral. After each biscuit is cut, I just slap it here against my belt buckle which bears the Navy insignia.

Horrified the Admiral exclaims, "That's very unhygienic!" The Chief shrugs and replies, "Well, if that's the way you feel, sir, I suggest you avoid the donuts."

## USS Illinois' Campaign Comes to Barrington

Laura Pavin, Chicago Tribune, Feb 6

While not a Navy or Military community, Barrington's Dee Dee Johnson hopes to get her town amped up about the commissioning of the USS Illinois, which will be the first Navy ship with the name since 1898.

The USS Illinois is a Virginia-class nuclear submarine that's currently being built in Connecticut and is set to be christened by first lady Michelle Obama, the ship's sponsor, in June, before being commissioned next winter.

Johnson is on the USS Illinois' Commissioning Committee with fellow Barrington residents Christina Currie and Bobby Ferguson, the committee's co-chair.

Because the Navy can't really spend money beyond the roughly \$2.7 billion in taxes it's taking to make the submarine, it's the committee's job to raise about \$800,000 - at least, that's the goal - to promote awareness for the ship, initiate a civilian support group called the 786 Club and throw the commissioning party.

The USS Illinois' commissioning will take place in Groton, Conn., in December.

Commissioning parties are a big deal because they celebrate a ship's official transition into active duty for the nation; thousands of spectators came to Galveston, Texas, to watch Laura Bush preside over the commissioning of the USS Texas in 2004.

"We get to kind of help throw a big party for the crew and their

families, and we are privileged, humbled and honored to get to be a part of that," said Johnson.

Johnson said that one area of the USS Texas was painted orange with a longhorn emblem on it, the commission was hoping to add some orange-and-blue touch to the USS Illinois.

"They're very much into the Illini, so we're going to play on that," Johnson said.

To help create a sense of excitement - and subsequently, support - for the submarine, Commander Jess Porter, the USS Illinois' captain, and some of the submarine's crew have been visiting various places throughout the greater Chicago area to talk about it.

Porter and the crew attended a fundraiser at Wickstrom Auto in Barrington on Feb. 5.

Earlier in that day, Johnson had them speak to about 150 social studies students in the Barrington High School auditorium. Several area veterans attended, too.

After introducing himself and some of his crew members, Porter explained to the audience that the Virginia class to which the USS Illinois belonged was one of five different types of submarine classes. The other four were the Ohio SSBN, Ohio SSGN, Seawolf SSN and Los Angeles SSN.

The Virginia class is part of a new generation of attack submarines that offers more state-of-the-art capabilities than any class before it.

Porter explained to students that, while submerged, the crew would get its oxygen through the electrolysis of water - in fact, the air that they'd be breathing during their

deployment (which typically last six to seven months) would be so clean that they would have to get used to the smell of the air when they got off the ship.

Another thing that would be tough when they got off the ship: Seeing at distances.

For exercise, crew members had elliptical, bike and rowing machines. For fun, they had Xbox and movies.

Before answering the audience's questions about their day-to-day routine, Porter turned to a slide photo of open water.

This commentary resonated with veteran Rich Macko of Naperville, who sat in for the presentation.

Macko was in the Navy from 1961-66. During that time, he served aboard the USS Trout, one of the subs tasked with creating a blockade during the Cuban Missile Crisis, the closest the planet has ever been to a World War III.

"It's why we're called the silent service; you don't hear them and you don't hear much about them," Macko said. "You hear more about what the Air Force is doing, but not much about what submarines do."

One of the more interesting pieces of information Macko came away with after listening to Porter speak was how different life on modern submarines was from when he was in the Navy.

Our submarines ran on diesel engines, so we had to surface and then submerge and run on batteries - the nuclear submarines have unlimited power," Macko said.

## Organ Donation Helps Crash Dive Shipmate

Submitted by: Chris Gaines

One of Crash Dive's plankowners, Ed Potts, was having some medical difficulties. His name was placed on a lung transplant list.

Ed was one of the lucky ones. He had a successful double-lung transplant on September 28, 2014. Ed gave permission to mention this experience to his Crash Dive shipmates.

While I am sure that Ed would enjoy hearing from you, we now know someone, personally, who benefited from the selfless generosity of a stranger.

If you ever considered becoming an organ donor but never quite got around to it, please use shipmate Ed's experience as a catalyst to make it so.

Write to him at [eypotts@aol.com](mailto:eypotts@aol.com) or send a card to 705 Greenville Court, Hampton, VA 23669-1303.

## POWER OUTAGE

I had a power outage at my house this morning and my PC, laptop, TV, DVD, iPad and my new surround sound music system were all shut down.

Then I discovered that my iPhone battery was flat. To top it off, it was snowing so I couldn't go for a walk, bike or run. The garage door opener needs electricity so I couldn't go anywhere in the car.

I went into the kitchen to make coffee and then I remembered that this also needed power, so I sat and talked with my wife for a few hours.

She seems like a nice person.

## John P. Craven, Scientist Who Shaped Cold War Spying At Sea, Dies At 90

William J. Broad, *New York Times*, Feb 19

John P. Craven, a former Navy scientist whose innovations in ocean technology and exploration led to some of the nation's most celebrated feats of espionage, died on Feb. 12 in Hawaii. He was 90.

The cause was complications of Parkinson's disease, his family said.

From 1959 to 1969, as chief scientist of the Special Projects Office, Dr. Craven led the Navy's drive to expand its presence into the crushing depths of the sea. Among other things, he turned submarines into spy machines that could reach down miles to inspect and retrieve lost enemy matériel, including nuclear arms.

Dr. Craven liked to regale friends and journalists with as much of his personal history in the Navy as the nation's secrecy laws would allow, resulting in books and articles that sought to illuminate his Cold War exploits.

"There's a hell of a lot of stuff that went on," he said in an interview in 1993 on the front porch of his home overlooking Honolulu. After all, he added philosophically, "the whole object of life is to adapt."

John Piña Craven was born on Oct. 30, 1924, in Brooklyn, coming from a long line of naval officers on his father's side and a family that reached back to Moorish pirates on his mother's. He graduated from Brooklyn Technical High School and joined the Navy during World War II, serving in Hawaii and earning two battle stars before he was sent to Cornell University for officer training.

After the war, under the G.I. Bill, he studied at the California Institute of Technology and the University of Iowa, where he met his future wife, Dorothy Drakesmith, and received a doctorate in mechanics and hydraulics. Years later he received a law degree from George Washington University and became an expert on seabed legalities.

Dr. Craven's naval career began in 1951, when, as a civilian, he investigated how to

improve ships and submarines. He was promoted quickly after correctly predicting and helping to fix a structural problem with the Navy's first nuclear-powered submarine, the Nautilus.

Dr. Craven was project manager for developing the Polaris, the world's first intercontinental ballistic missile that could be fired from a submerged submarine. It underwent test firing in 1960 and was in service for decades.

The Navy was eager to restore the nation's confidence in its deep-sea abilities after the new attack submarine Thresher sank in 1963 during a test dive east of Boston because of a mechanical failure, taking 129 lives. Officials gave Dr. Craven and his special-projects team leeway to devise a wide range of undersea gear for search, rescue, salvage and gathering intelligence from the sunless depths.

In 1965, he selected the nuclear submarine Halibut for conversion into an innovative spy sub, filling the vessel with electronic, sonic, photographic and video gadgets. Hovering beneath the waves, invisible to adversaries, the sub could lower a long cable heavy with lights, cameras and other gear for deep reconnaissance, recovery and manipulation. It was a technological first that begot a new kind of espionage.

Among the targets were ships, planes and spacecraft lost at sea, as well as functioning equipment, like undersea cables and listening devices. To build support for his top-secret endeavors, Dr. Craven met with senior Pentagon officials, showing them classified photographs of Soviet warheads buried in muck on the seabed.

In March 1968, a rich new target materialized when a Soviet missile submarine bearing code books, encryption gear and nuclear arms sank in the central Pacific. By all accounts, Dr. Craven and the spy sub located the wreckage more than three miles beneath the sea's surface.

That May, the nuclear-powered attack submarine Scorpion vanished in the Atlantic with 99 men on board. Dr. Craven scrutinized recordings from undersea microphones, found evidence of explosions, and drew on his knowledge of math and statistics to pinpoint the spot where the submarine was most likely to

have sunk. Search teams discovered the Scorpion's wreckage at a depth of nearly two miles.

The undersea fleet that Dr. Craven helped devise included the Navy's NR-1, a nuclear submarine with crablike claws; the Deep Submergence Rescue Vehicle, a cylindrical craft designed to evacuate up to 24 people at a time from a crippled submarine; and the bathyscaph Trieste, a vessel his team improved, which investigated the sunken Scorpion.

Dr. Craven twice received the Distinguished Civilian Service Award, once from the Navy and once from the Department of Defense.

After Richard M. Nixon won the presidential election in 1968, Dr. Craven, convinced that the new administration would have no room for an outspoken Democrat, left the Navy and took a teaching post at the Massachusetts Institute of Technology. In 1970, lured to Hawaii by its governor, he was named dean of marine programs at the University of Hawaii and the state's marine affairs coordinator.

The spy sub he devised made one of its greatest coups shortly after he left the Navy. In 1971, the Halibut stole into the Sea of Okhotsk

north of Japan, found a telecommunications cable used by Soviet nuclear forces and succeeded in tapping its secrets. The mission, code-named Ivy Bells, was so secret that a vast majority of the submarine's sailors had no idea what they had accomplished. The success led to a concealed world of cable-tapping.

In 1974, Dr. Craven founded the Natural Energy Laboratory of Hawaii, a state research center that investigated how to make electricity by exploiting the temperature difference between the Earth's warm surface and cold water from the ocean's depths.

Dr. Craven's naval career has been profiled in several books. He recounted his own story in 2001 in "The Silent War: The Cold War Battle Beneath the Sea." In its prologue, he says he wrote the book to honor men whose sacrifices might otherwise go unacknowledged.

Dr. Craven is survived by Dorothy Drakesmith Craven, his wife of 64 years; a son, David; a daughter, Sarah Craven; and five grandchildren.

Once, at his Hawaiian laboratory, Dr. Craven described an energy project in terms that echoed his own life. "It seemed," he said, "like perpetual motion."

### Crash Dive Base Contact Information

**Commander** – Clayton Hill, 195 Clover Lane, Cedarburg, WI 53012; 262-377-5332 (work number) or [bisi@ameritech.net](mailto:bisi@ameritech.net)

**Vice-Commander** – Frank Voznak, Jr. 9 South 255 Madison, Burr Ridge, IL. 60527; 630 986-0175 [franklin2@comcast.net](mailto:franklin2@comcast.net)

**Secretary (POC)** – Chris Gaines, 513 West Downer Place, Aurora, IL 60506; 630-892-5718 or [ccgaines@mindspring.com](mailto:ccgaines@mindspring.com)

**Treasurer** – Glenn C. Barts, Sr., 2000 Jamestown Drive, Palatine, IL 60074; 847-934-7418; [gcbarts@msn.com](mailto:gcbarts@msn.com)

**COB** – Larry Warnke, [lwarnke@msn.com](mailto:lwarnke@msn.com)

**Chaplain** – Cris Pascual; [crispasses@aol.com](mailto:crispasses@aol.com); 285 Southridge, Gurnee, IL 60031; 847-855-0772

**Membership** – Tom Polzin, 12463 Foxtail Lane, Huntley, IL 60142; (v) 847-867-8668; (f) 847-669-2444; [tapolzin@aol.com](mailto:tapolzin@aol.com)

**Storekeeper** – Herman Mueller, 503 Lynn Terrace, Waukegan, IL 60085; 847-445-5034; [hermanandlorimueller@comcast.net](mailto:hermanandlorimueller@comcast.net)

**Newsletter Editor** – Chris Gaines

**Base Historian** – Frank Voznak, Jr.





# CRASH DIVE BASE Lake Bluff, IL



**“To Honor Those Who Serve, Past, Present & Future”**

## Fundraiser

**WWII Submarine Veterans Memorial Project  
Saturday, April 11, 2015; Holiday Inn, Manitowoc, WI**

**ALL PRESENT AND FORMER SUBMARINE PERSONNEL, MILITARY PERSONNEL & FAMILIES and the PUBLIC ARE INVITED**

**DRESS CODE - MILITARY: SERVICE DRESS BLUES with RIBBONS  
USSVI MEMBERS: VEST & tie, CIVILIANS: SEMI-FORMAL Jacket and tie**

**CASH BAR AT 1700; PROGRAM, DINNER AND LIVE BAND  
DANCING AT 1800**

**SILENT AUCTION TOO, SO BRING EXTRA \$\$**

**Holiday Inn, 4601 Calumet Avenue, Manitowoc, WI 54220; 920-682-6000**

Mention "US Sub Vets" for our special rate \$85 plus tax before March 13, 2015

Tickets are \$49 each; reduced child rate; Make checks payable to "Crash Dive Base"

Send your check, the form below, and a self-addressed, stamped envelope to:  
Chris Gaines, 513 W. Downer Place, Aurora, IL 60506; 630-319-8110; [ccgaines@mindspring.com](mailto:ccgaines@mindspring.com)

Name \_\_\_\_\_

Spouse/Guest Name(s) \_\_\_\_\_

Street Address \_\_\_\_\_

City, State ZIP Code \_\_\_\_\_

Phone \_\_\_\_\_

E-mail \_\_\_\_\_

Dinner Entrée Selection:

Poached Salmon \_\_\_\_\_ Prime Rib \_\_\_\_\_

Chicken Marsala \_\_\_\_\_ Pasta Primavera \_\_\_\_\_

Restrictions \_\_\_\_\_

Banquet: \_\_\_\_\_ x \$49 = \_\_\_\_\_

Voluntary Donation for Memorial: \_\_\_\_\_

Unable to attend but wish to donate to the Memorial: \_\_\_\_\_

Total Enclosed: \_\_\_\_\_

(All donations are tax deductible, as we are a 501(c)3 non-profit organization)

Cutoff date is April 9, 2015

No refunds after March 11, 2015



# APPLICATION FOR MEMBERSHIP

Regular  Life  Associate

**OUR CREED:** "To perpetuate the memory of our shipmates who gave their lives in the pursuit of their 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 & its Constitution."

With my signature below I affirm that I subscribe to the Creed of the United States Submarine Veterans, Inc., and agree to abide by the Constitution, all Bylaws, Regulations and Procedures governing the U.S. Submarine Veterans, Inc., so long as they do not conflict with my military or civil obligations. I will furnish proof of my eligibility for Regular membership, including my discharge under honorable conditions, and proof of my U.S. Navy (SS) Designation, if required by the Base or the national Membership Chairman. If I am not discharged, the discharge requirement is waived. If I am not U.S. N. submarine qualified, I am applying as an Associate and my sponsor is indicated below.

- I certify that I was designated qualified in USN Submarines aboard \_\_\_\_\_ in \_\_\_\_\_ (Yr)  
(Honorary designations regardless of source do not apply under any circumstances.)
- I certify that I received a discharge under Honorable Conditions (if not currently in military service) in \_\_\_\_\_ (Yr)

**Name:** (Print /Type) \_\_\_\_\_ **Address:** \_\_\_\_\_

**City:** \_\_\_\_\_ **State:** \_\_\_\_\_ **Zip Code:** \_\_\_\_\_ - \_\_\_\_\_ **Tel:** (\_\_\_\_\_) \_\_\_\_\_ - \_\_\_\_\_

**Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_

**Your E-Mail Address** \_\_\_\_\_ **Base/Chapter Desired:** \_\_\_\_\_

The Member Dues year runs from Jan 1<sup>st</sup> thru Dec 31<sup>st</sup>. Please indicate your term preference: \_\_\_\_\_  
 Nat'l Dues: 5 Yr term: \$ 90.00; 3 Yr term: \$ 55.00; 1 yr term (Jan thru Sep) \$ 20.00; (Oct thru Dec adds the next yr): \$ 25.00  
 Nat'l Life: 76+ yrs = \$100.00; 66 thru 75 yrs = \$200; 56 thru 65 yrs = \$ 300.00; 46 thru 55 = \$400.00; Thru 45 yrs = \$ 500.00  
 Local Base/chapter dues are separate and additional. Crash Dive Base dues are \$15 annually.

How did you find USSVI?  Friend,  Boat Assn,  Local Event/News,  Internet,  Other (\_\_\_\_\_)

## YOUR U.S. NAVY BIOGRAPHICAL DATA

**Date Of Birth** (MM/DD/YY) \_\_\_\_/\_\_\_\_/\_\_\_\_ **If other military service, What Branch?** \_\_\_\_\_

**Highest Rate & Rank Attained:** \_\_\_\_\_ **Mil Retired (Y/N):** \_\_\_\_\_ **On Active Duty? (Y/N):** \_\_\_\_\_

**YR entered Mil Service:** \_\_\_\_\_ **YR left Mil Service** \_\_\_\_\_ (Active/Inactive reserve time also counts.)

Check here if your Military Service falls within these time periods: Dec 7, 1941, thru Dec 31, 1946; June 27, 1950, thru Jan 31, 1955; Aug 5, 1964, thru May 7,1975; and Aug 2, 1990 to date.

Check here if you have been awarded an Expeditionary Medal

Submarines and ships served aboard as ship's company (Use back if you need more space.)

1. \_\_\_\_\_ **Hull#** \_\_\_\_\_ **From Yr.** \_\_\_\_\_ **to Yr.** \_\_\_\_\_

2. \_\_\_\_\_ **Hull#** \_\_\_\_\_ **From Yr.** \_\_\_\_\_ **to Yr.** \_\_\_\_\_

3. \_\_\_\_\_ **Hull#** \_\_\_\_\_ **From Yr.** \_\_\_\_\_ **to Yr.** \_\_\_\_\_

4. \_\_\_\_\_ **Hull#** \_\_\_\_\_ **From Yr.** \_\_\_\_\_ **to Yr.** \_\_\_\_\_

**Next of Kin: Name:** \_\_\_\_\_ **Relationship:** \_\_\_\_\_ (Spouse, Partner, Son, Dau, Parent, Other)

**Addr:** \_\_\_\_\_ **City:** \_\_\_\_\_ **State:** \_\_\_\_\_ **Zip:** \_\_\_\_\_ **Tel:** \_\_\_\_\_

(Leave this address line blank if the same as your home address)

Upon completion, give this form, including your National and Base membership dues to the appropriate base officer, or mail to: Crash Dive Membership Chairman Tom Polzin, 12463 Foxtail Ln, Huntley, IL 60142; Cell 847/867-8668 Fax 847/669-2444