



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

December 2012 Volume 13, Issue 12

<p>Lest We Forget — “The USSVI Submariner’s Creed”</p> <p>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.</p>	<p>Inside This Issue:</p> <p>Meeting minutes 2</p> <p>Lost Boats 3</p> <p>Chaplain’s Corner 3</p> <p>LDUUV article 4</p> <p>Boomer plans 5</p> <p>Scorpion investigation 7</p> <p>Base officer contact 9</p> <p>Application form 10</p>
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News Brief

1. **Next Meeting:** At 1200, third Saturday of each month at the Knollwood Sportsman’s Club. Mark your calendars for these upcoming dates:
 - a. DECEMBER 15
 - b. JANUARY 19, 2013
 - c. FEBRUARY 16
 2. **Duty Cook Roster:**
 - a. December – Greg Miller and Luke Maxa
 - b. January – Chris Gaines Third Annual Chili Dump
 - c. February – Clay Hill
 3. **December Birthdays:** Jim Anderson 1st, Greg Miller 10th, Charlie Kruger 15th, Edward Dowling 19th, Allen Tuidier 22nd, Pete Tzomes, 30th, and John Stines 30th.
 4. **At each meeting,** we collect dental supplies and toiletries for the USO, used eye glasses for the Lions Club, and serviceable goods for Navy Relief Shop.
 5. Have you ever **setup a Website** for work group, club, or religious institution? If so, we need your skills. Contact Clay Hill
- CRASH DIVE BASE WEBSITE: WWW.CRASHDIVEBASE.COM**

Crash Dive Meeting Minutes November 17, 2012

- 1) Attendees
 - a) Clay Hill
 - b) Frank Voznak, Jr.
 - c) Glenn Barts, Sr.
 - d) Rich Behnke
 - e) Bob Fleck
 - f) Kep Preble
 - g) Scott Jaklin
 - h) Frank Walter
 - i) Tom Polzin
 - j) Chris Gaines
 - k) Larry Warnke
 - l) Greg Miller
 - m) Charlie Kruger
 - n) Herman Mueller
 - o) Gus Yakes
- 2) The meeting was called to order at 1210 by Clayton Hill followed by the invocation, Pledge of Allegiance, and a round of introductions.
- 3) Secretary's Report given by Chris Gaines. Frank Voznak moved to accept; Kep Preble seconded; unanimous
- 4) Treasurer's Report was given by Glenn Barts, Sr. September statements: Savings \$1173.69; Checking \$3633.30. – Scott Jaklin moved to accept; Larry Warnke seconded; unanimous.
- 5) Committee Reports
 - a) Newsletter – no report
 - b) Membership – no report
 - c) Charitable Service – Collecting winter coats; toiletries for USO at O'Hare;

- Toys for Tots at December meeting (new, unwrapped).
- d) Hospitality – benefit tomorrow for vet bills for a dog shot during home invasion.
 - e) Webmaster – vacant
 - f) Storekeeper – no report;
 - g) Bylaws – no report
 - h) Memorial – design is being finalized; water-tight door is being requested. Glenn Barts moved to reimburse Frank Voznak for expenses incurred in taking architects to Manitowoc; Herman Mueller seconded. Unanimous.
- 6) Old Business
 - a) Sub Ball – Clay Hill reviewed the highlights.
 - b) Projector – to facilitate ease of use, Crash Dive refunded Great Lakes Base donation toward the projector.
 - 7) New Business
 - a) 50-50 won by Rich Behnke
 - b) Elections: VCDR no new nominations from the floor; Secretary no new nominations. Frank Voznak, Jr. is elected VCDR and Chris Gaines is elected Secretary; unanimous.
 - c) Tom Polzin mentioned that he learned of a community program at Home Depot and Lowe's in Norfolk to setup a table on holidays to promote submarines; lots of

- interest. Tom will follow-up and try to get details.
- d) Greg Miller: blood drive at Addison VFW next Saturday; like to get some guys in caps and vests.
- 8) Good of the Order
- a) Duty Cook
- i) December – Greg Miller and Luke Maxa
- ii) January – Chris Gaines Chili Dump
- iii) February – Clay Hill
- iv) March – Famous Fleck Family Brisket Dinner
- b) Next meeting at KSC on December 15.
- 9) Adjourn at 1341.

Lost Boats

USS Capelin (SS-289)	12/2/43
USS Sea Lion (SS-195)	12/10/41
USS F-1/Carp (SS-20)	12/17/17
USS S-4 (SS-109)	12/17/27

Chaplain's Corner

From my wife Betty and I "To all of our Shipmates and Their Families, Happy Hanukkah, Merry Christmas and Happy New Year "!!!!

This has again been a quiet month. No adversities to report.

Through the efforts of Greg Miller and Crew, The Base delivered a goodly amount of toiletries to the U.S.O. O'Hare along with a Check for \$150.00. They were very appreciative of the donation. They did say that they always need new T Shirts for the troops going through.

A letter of Thank You was received from the U.S.O. acknowledging the donation.

There was also a donation of "Goods" to the Navy/Marine resale shop that is now located on Main Side. My wife and I delivered them this month.

I received the following an E-Mail from them at my request, This spells out their needs and location.

"Good Morning Mr. Barts,

You had asked me to contact you when I had information regarding our thrift store opening. I am happy to inform you that on Jan 7th at 0900 we will be having our GRAND Re-Opening! It is located in Bldg 26 1st floor on Great Lakes Naval Station.

They will begin accepting donations that morning after the ribbon cutting. Acceptable donations are gently used clothing, books, dishes, pots, pans, cooking utensils, military uniforms & bedding;

We will **not** be able to accept any electronics, i.e. Televisions, Computers, VCR's. No undergarments, furniture, or large appliances.

Donations will be accepted ONLY during business hours on Tue, Wed, and Thurs from 0900 – 1200 after Jan 7th. Hope you will be able to join us! "

Respectfully

Lisa Davis

Don't forget the Toys For Tots. There are boxes set up at the Knollwood Sportsman Club for them.

With that said I will keep this brief. Remember to keep all of our troops in your prayers.

Glenn C. BARTS, Sr.
Chaplain, Crash Dive Base

Large Displacement Unmanned Underwater Vehicle Steaming Ahead

By David Hambling

Source: [Defense Technology International](#)



April 01, 2012

The U.S. Navy's Office of Naval Research plans to take robot submarines to a new level. Current Navy unmanned underwater systems (UUS) are small vehicles controlled by an operator nearby, for missions lasting a few hours. The Large Displacement Unmanned Underwater Vehicle (LDUUV) will be large and highly autonomous, carrying out missions at long distances for months. It will act as a mothership, deploying and operating static and mobile sensors for persistent surveillance in coastal waters. Ultimately, it is likely to be armed. The program sounds ambitious, but much of the technology has already been proven.

Boeing's Echo Ranger is setting the pace for LDUUV technology. Originally built in 2001, the Echo Ranger is a 5.5-meter (18-ft.), 5-ton craft that can dive to 10,000 ft. "In terms of autonomous operation, we're pretty much there," says Mark Kosko, program manager for Boeing's Unmanned Undersea Systems group.

The Navy's autonomy requirements call for it to operate without human assistance in shallow water littered with obstacles. In the first 18-month phase the craft will work at shallow depths of as little as 100 ft., calling on an operator via satellite link in

challenging situations. The second phase, which will take up to three years, will extend operations to open ocean and working without any human intervention.

The LDUUV will have to detect and avoid surface and submerged vessels, and other hazards such as marine mammals and fishing nets. It will sense and maneuver around fixed obstacles, including piers, moorings and underwater terrain, and plot an efficient course to take.

Echo Ranger has already worked in this type of environment. Sonar gives it short-range obstacle sensing, and acoustic sensors warn of approaching vessels from several miles away. The vehicle then moves out of the way to avoid collision. Echo Ranger's developers have also learned how to avoid static obstacles, sometimes the hard way—on one occasion it got stuck in a kelp bed.

"You only have to learn that lesson once," says Kosko.

Another element of the LDUUV program concentrates on endurance, aiming to boost the amount of energy stored per-pound by 10 times. Again, there will be two phases: the first, taking two years, will see the LDUUV operating for up to 30 days at a stretch, increasing to 70 days in the second phase.

Echo Ranger is powered by batteries with an endurance of 28 hr., although Kosko says diesel engines or fuel cells could prolong that time. These technologies might be difficult to apply on small unmanned vessels, but the LDUUV power unit will weigh 3.5 tons, and Kosko says it is largely a matter of packaging existing technology.

A third development effort addresses reliability needed for longer missions. Again, Kosko says this has been explored with Echo Ranger. Drawing on Boeing's expertise with satellites to airliners, developers have looked at redundant

systems, improved component reliability and also self-monitoring capability. The craft needs to be able to compensate for the loss of a sensor, and gauge the seriousness of other problems.

“It has to be able to sense a leak and say 'Hey, it's time to go,’” says Kosko.

The LDUUV will have a large payload bay, making it capable of releasing sensors, communication buoys, smaller UUS and weapons. The Navy's current emphasis is on persistent surveillance “over the horizon.” However, its most significant impact could be in mine warfare, both offensive and defensive.

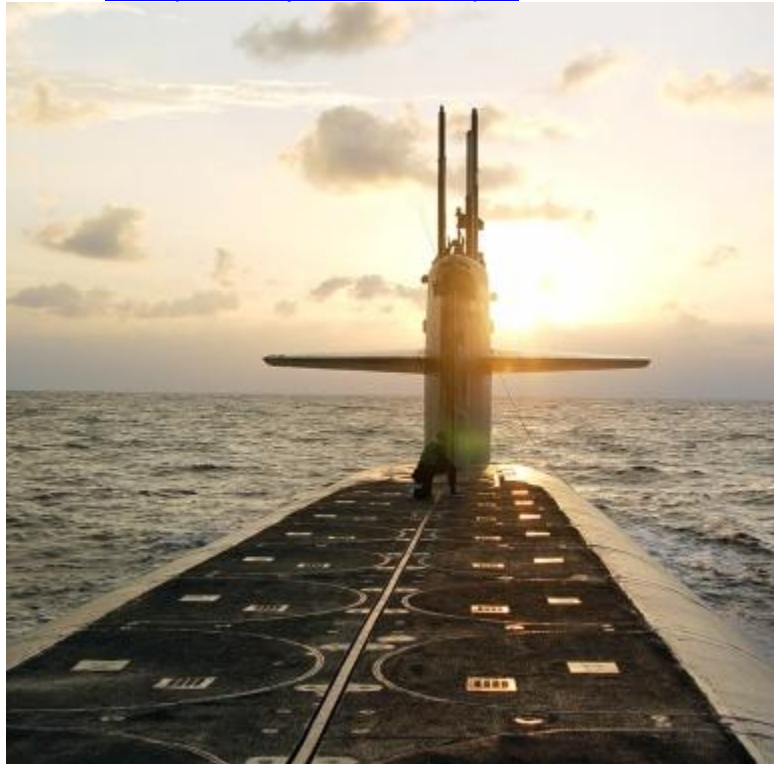
In the counter-mine role, the LDUUV will be able to detect and locate mines, then engage and neutralize them safely. And the LDUUV could make offensive mine laying more controllable and clandestine. In the transformational mine concept, the LDUUV lays networked sensors across a wide area. These track and identify every vessel within range. Depending on the situation, any vessel can be engaged, by either an anchored weapon or a torpedo from the UUV itself. The advantage of using an LDUUV is that the minefield can be switched on or off, or changed in size. It can be emplaced in advance, and never activated. De-mining and clear-up do not pose the major problem that they do with traditional mines.

The Navy plans to release a request for proposals for the LDUUV in 2014. Last October Rear Adm. Barry Bruner, the Navy's undersea warfare director, indicated that up to 10 LDUUVs would be procured. The LDUUV is being pitched as a helper to complement manned submarines. However, if it achieves the technology goals for endurance and autonomy, it will pose serious questions of what exactly large unmanned craft could not ultimately do

U.S. Submarine Brass Touts Boomer Replacement Plans

By Michael Fabey

Source: [Aerospace Daily & Defense Report](#)



October 19, 2012

FALLS CHURCH, Va. — U.S. Navy submarine fleet admirals are continuing the clarion call for the proposed replacement of aging Ohio-class ballistic missile submarines (SSBN), touting the intended vessel advancements and emphasizing the need for the ships to meet the nation's strategic nuclear plans.

Speaking at the 2012 Naval Submarine League Symposium Oct. 17, the admirals made it clear the proposed replacement fleet would be newly designed boats — not simply upgraded Ohio-class vessels — that would leverage technological and programmatic pushes made by the Virginia-class attack subs, but go beyond redesigned or reconfigured Virginias.

The admirals also made it clear that the Ohio-class replacement boats represent the most important and vital shipbuilding program for the Navy and nation because of the strategic need for nuclear deterrence.

“Our number one priority is the Ohio-class replacement program,” says Adm. Kirk Donald, the director of naval reactors. No budget, political or related issues should hold up the program, he says: “There can be no excuses.”

Acknowledging that detractors continue to hound the program for cost issues and perceived technological risk of developing the subs, he says, “We shouldn’t be talking about them as a burden. It is our solemn responsibility.”

Rear Adm. Frank Caldwell, commander of the Navy’s Pacific submarine fleet, says, “It is not a submarine force problem. It’s a Navy force problem.”

The Navy has relied on 14 Ohio-class subs to perform the mission, notes Rear Adm. Barry Bruner, director of submarine warfare. But thanks to material and other improvements, as well as a modified maintenance and overhaul schedule, the service will be able to do the job with a dozen of the proposed replacement subs. But, he says, “We have to have 12 submarines.”

And there is no way the new sub can simply be a modified Ohio. “Absolutely not,” he says, citing such improvements as an electric drive, new stern and improved, larger Virginia-like propulsor.

In a recent blog about the proposed replacement fleet, Bruner says the Navy and Pentagon are keeping a lid on proposed costs. “The Department of Defense set an aggressive cost goal of \$4.9 billion per hull (calendar year 2010) as an average cost for hulls 2-12,” he writes. “To date, the Navy has reduced costs by reducing specifications to the minimum necessary to meet national strategic deterrent requirements, implementing modular construction design, reusing the Trident II D5 Strategic Weapons System, and reusing Virginia- and Ohio-class components where feasible. The Virginia-class construction program, through aggressive management and collaboration between government and industry, has developed into a model shipbuilding program, continually coming in under budget and ahead of schedule. Ohio Replacement design and construction will build on this success.”

Holiday Greetings

HAPPY HOLIDAYS TO YOU ALL

The season is upon us, and I want to pass along to you good tidings. We now have over 13,600 members and adding more each week. And we were worried about membership last year? I know you all will do your part in renewal of memberships as we get into January. I want you to know how proud of this District I am! Your work on memorials, participation in parades, and memorial services, and hospital and school library work and volunteer work for submarine

memorials, and museums. Your work is outstanding!!

This past year, we were downsized by National as it seemed there were too many bases, and not enough time for visits. I think we are over that now, and we are focused on carrying on the work of our organization. We have a National Convention coming up in Minnesota, which looks to be a really good one. Hope you all can attend.

Please pass on to your members my wishes for a Happy Holiday, and keep in mind our troops who are overseas and those stationed at home. Keep the WWII subvets in your prayers and thank our many veterans for their service time, whether they are active or not. It is an HONOR to serve you and all our members as your District 2 Commander.

High regards.....

Vic VanHorn

Sub with new design nears completion in Groton

Submitted by: Office on 12/8/2012

The first in a series of Navy attack submarines with a newly redesigned bow is nearing completion at Groton's Electric Boat, which says it is on track to beat production deadlines with the boat that will become the USS North Dakota.

Go to the link for the story...

<http://www.boston.com/news/local/connecticut/2012/12/07/sub-with-new-design-nears-completion-groton/sC8ekRJBiknTx2sugEfUrK/story.html>

Submarine vets call for USS Scorpion investigation



USS Scorpion in April of 1968 / U.S. Naval History and Heritage Command

by Dan Vergano, USA TODAY

The saga of the USS Scorpion continues as a submarine veterans group calls for an investigation of the unexplained accident that sank the nuclear attack sub more than 40 years ago.

The Scorpion went down May 22, 1968, killing 99 men and foundering 11,220 feet underwater in the middle of the Atlantic Ocean. The sub carried two nuclear torpedoes and a nuclear reactor.

A Navy Court of Inquiry found that year that "the cause of the loss cannot be definitively ascertained," leaving the sub's demise a matter of controversy for decades. Last month, the Navy denied a proposal by marine disaster experts to investigate the shipwreck, triggering the latest call for finally determining what sank the USS Scorpion.

"One can hope that the Navy will listen to us," says Thomas Conlon of U.S. Submarine Veterans, a 13,800-

member organization of former submarine servicemembers dedicated to memorializing lost submariners. The organization sent a letter Nov. 5 to the secretary of the Navy, Ray Mabus, with the "request that the United States Navy officially reopen the investigation of USS Scorpion (SSN 589)."

In May, an expedition team led by former naval officer Paul Boyne proposed to the U.S. Navy Heritage and History Command in Washington that it would send an undersea robot to resolve unanswered questions about the tragedy. After a summer of contentious correspondence, the Navy office denied the permit citing the lack of an archaeological plan for the investigation.

In a follow-up letter sent last week, Rear Adm. Barry Bruner warned Boyne against undertaking any unauthorized dive of the wreck, citing the Sunken Military Craft Act.

"That law allows the Department of the Navy to make the determination on whether or not a requested dive might potentially disturb, remove or injure a sunken military craft," Navy Cmdr. Brenda Malone says.

Boyne says he just wants to know "why did these men die?" He presented a new explanation for the loss of the sub at a marine forensics symposium in April. "We don't know why this ship went down, yet they are treating this like there is nothing to see here and we should just move along."

Boyne says the expedition team still plans a "recreational" investigation of the wreck, which rests in international waters at a location the U.S. Navy considers "secret," according to Malone. "The absence of a permit for cultural preservation and archaeological matters on lands of the U.S. does not affect this recreational dive in the middle of very international waters," Boyne replied to the Navy in a letter sent Thursday.

(In response to USA TODAY inquiries made in June, Malone said the nuclear torpedoes and reactor that went down with the submarine are "monitored," but she could not discuss further details.)

The Navy has tested the water around the submarine for radioactive releases, at least as recently as 1998.

Theories about the Scorpion's demise range from a torpedo self-firing into the ship to a battery explosion. There is also Boyne's suggestion that rubber bearings holding its propeller shaft failed. He says that may have led to a catastrophic failure, spilling water through the propeller shaft opening into the sub too rapidly for the ship to be raised to the surface.

In the denied proposal, the team planned to send a robot sub to the wreck to photograph the displaced shaft. The robot would have sent a small tethered camera into the ship's engine room to examine the damage to the coupling that held the shaft. Although sending robots to 11,800-foot depths was very difficult

when the sub sank, recent decades have seen advances in deep-sea submersibles.

The "recreational" expedition being considered would be led by *Wreck Diving Magazine* and the accident investigation firm Marine Forensic & Investigation Group (MFI Group) of Summerville, S.C. "A few details are still being worked out, but the expedition will go next year," MFI Group Vice President Charles George says.

At least 11 family members of the crew who died on the sub have joined in the call for the expedition.

The Very Best to You and Yours

Submitted by: T. Michael Bircumshaw

Shipmates,

Thank you for your service to our country and thank you for being a member of USSVI. I wish each and every one of you the very best of the year end holidays from Hanukkah to

Kwanza to a very merry Christmas and to all of you a Happy New Year..

Please keep a thought and a prayer for all of our shipmates, both near and far and take time to call one or more of them during this family time.

Your contributions to your family, your community and your country are genuinely appreciated.

Thanks for the holidays you spent riding the surface, snorkeling, playing tag with the Kilos and Tangos or making 5 knots waiting for the next WSRT. You have and continue to make a difference.

Fraternally,
Michael

Navy test-fires missiles from robot boats

Read an interesting article here:
<http://www.myfoxdc.com/story/20001873/navy-test-fires-missiles-from-robot-boats#axzz2FVypsQ7j>

Crash Dive Base Contact Information

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

Vice-Commander – Frank Voznak, Jr. 9 South 255 Madison, Burr Ridge, IL. 60527
630 986-0175 franklin2@comcast.net

Secretary (POC) – Chris Gaines, 513 West Downer Place, Aurora, IL 60506; 630-892-5718 or cggaines@mindspring.com

Treasurer – Glenn C. Barts, Sr., 2000 Jamestown Drive, Palatine, IL 60074; 847-934-7418; gcbarts@msn.com

COB – Larry Warnke, lwarnke@msn.com

Chaplain – Glenn Barts, Sr.

Storekeeper – Herman Mueller, 503 Lynn Terrace, Waukegan, IL 60085; 847-445-5034; hermanandlorimueller@comcast.net

Newsletter Editor – Chris Gaines

Base Historian – Frank Voznak, Jr.



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 1st thru Dec 31st. 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 (_____)

Who is your sponsoring USSVI Regular Member?: (Mandatory for Assoc Mbrs) _____

Associate Applicant is: Veteran Spouse of Veteran Other (specify) _____

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.)

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. _____ |
| 5. _____ | 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)

Applicants on active duty are requested to provide a permanent home address.

Upon completion, give this form, including your National and Base membership dues to the appropriate base officer. or mail to: Crash Dive Secretary. Chris Gaines. 513 W. Downer Place. Aurora. IL 60506: 630-892-5718