



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

April 2015

Volume 16, Issue 04

**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.

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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. APRIL 18
 - b. MAY 16
 - c. JUNE 20
2. **Duty Cook Roster:**
 - a. APRIL – LARRY WARNKE
 - b. MAY – FRANK VOZNAK, JR.
 - c. JUNE – SEE YOUR NAME HERE
3. **April Birthday:** Mike Slattery 23rd. Happy Birthday Mike!
4. Your 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.
5. Share our **fundraiser** news with family, friends, and neighbors. Send them copies of the registration form on page 9.
6. Banquet keynote speaker is **CDR Bob Koonce**, USN (ret.) who was the CO of the USS Key West prior to his retirement. Bob is an interesting and engaging speaker. See page 9 for the registration form and send it in today. We want to see you there.

Crash Dive Meeting Minutes March 21, 2015

1. Attendees:
 - a. Chris Gaines
 - b. Frank Voznak
 - c. Clay Hill
 - d. Ray Ratliff
 - e. Larry Warnke
 - f. Gus Yakes
 - g. Tom Polzin
 - h. Glenn Barts
 - i. Ed Dowling
 - j. Ron Spooner
 - k. Dick Anderson
 - l. Ted Rotzoll
 - m. Herman Mueller
2. Meeting was called to order by Clay Hill at 1105 followed by the Pledge of Allegiance, and a round of introductions.
3. Secretary's Report given by Chris Gaines. Herman Mueller moved to accept; Ed Dowling seconded; vote was unanimous.
4. Treasurer's Report given by Glenn Barts. Savings \$1173.69; Checking \$2,475.87; Memorial Checking \$24,066.25; Memorial Savings \$5.00; Held by National \$5,240.00. Larry Warnke moved to accept; Ed Dowling seconded; vote was unanimous.
5. Committee Reports
 - a. Newsletter – no news
 - b. Membership – Still pursuing delinquent members.
 - c. Charitable Service – Delivered toiletries to USO. Dorothy Gaines is making pillowcases.
 - d. Community Outreach –
 - i. Peoria Base – Hoping to attend a meeting.
 - e. Hospitality – KSC elections produced new leadership; Larry now is on the Board of Directors.
 - f. Webmaster – New material posted; check the site from time to time.
 - g. Storekeeper – Continue to prepare for banquet.
 - h. Procedures – no news.
 - i. Eagle Scout – Invited to two Courts of Honor with one more pending.
 - j. Memorial –
 - i. Now have large and small models thanks to Gary Walters and an anonymous donor respectively. Will display prominently, especially at fundraisers.
 - ii. Frank Voznak asks each member to forward our flier to friends, family, and neighbors. Promote the invitation to the banquet including access to the boat.

6. Old Business
 - a. None.
7. New Business
 - a. Banquet
 - i. Plans are set but only a few dozen shipmates have registered.
 - ii. Hotel is honoring the negotiated rate beyond the cutoff.
 - iii. Keynote speaker is CDR Bob Koonce, USN (ret.) who was CO of the Key West prior to his retirement in 2011.
8. Good of the Order item:
 - a. SVWWII picnic will be August 8, 2015.
 - b. Duty Cook
 - i. April – Larry Warnke.
 - ii. May – Frank Voznak, Jr.
 - iii. June – see your name here.
 - c. Cobia Working Party tomorrow; all hands and friends welcome; contact Greg Miller.
 - d. SubFest –
 - i. WI Maritime Museum Manitowoc, July 10-12, 2015
 - ii. want to display our Lost Boat centerpieces;
 - iii. want our help arranging a Table of Remembrance;
 - iv. soliciting volunteers to man a compartment and teach visitors about what happened there.

- e. Chris Gaines mentioned the get-together March 28 in Mukwonago.
 - f. Clay discussed the Boat Sponsorship Program.
 - g. Laser-cut emblem:
 - h. Chris Gaines will find out if the wording can be tailored.
 - i. WMM on Saturday May 2 at 1300 Lagarto memorial service.
9. Larry Warnke moved to adjourn, Glenn Barts seconded; vote was unanimous. Adjourned at 1221.

Lost Boats

USS PICKEREL (SS-177)	4/3/43
USS SNOOK (SS-279)	4/8/45
USS THRESHER (SSN-593)	4/10/63
USS GUDGEON (SS-211)	4/18/44
USS GRENADIER (SS-210)	4/22/43

Call the Dispatcher

Two Policemen call their dispatcher.

We need the Sargent on duty?

"Sargent Smith here, what's going on?"

"We have a homicide to report. A woman has shot her husband five times in the heart for stepping on the floor she had just scrubbed clean."

"Have you arrested the woman?"

"No sir. The floor is still wet."

Navy's Next Generational Nuclear Submarine Fund Has No Money

Kris Osborn, Military.com, Mar 18

The Navy and Congress have yet to find money for a newly created account designed to pay for the services' fleet of next-generation nuclear-armed ballistic missile submarines slated to begin service in 2031 – the Ohio Replacement Program.

The special fund is a product of the concern from lawmakers and admirals that the cost of the Ohio Replacement program would bankrupt the rest of the Navy's shipbuilding budget.

As a result, the 2015 National Defense Authorization Act established the National Sea-Based Deterrence Fund – a special account created specifically to fund the Ohio Replacement program. However, Congress has yet to assign any funding to the account.

"We need to have some processes in place in order to make sure you are ready to go and there is money in this fund," Sen. Mazie Hirono, D-Hawaii, said Wednesday at a Senate Armed Services Committee's Navy shipbuilding hearing.

Service leaders told lawmakers there are not enough funds in the services' shipbuilding accounts to move any over into the new fund for the Ohio Replacement.

"We need to work with you all (Congress) to put this fund to work. Right now it is a framework without funding in it. What was authorized was to use other funds from shipbuilding to go into the Sea Based Deterrence Fund," said Navy acquisition executive Sean Stackley. "Today, we don't have other funds from shipbuilding to move into that fund -- particularly to the magnitude needed for the Ohio Replacement program."

Slated to serve through 2085, the Ohio Replacement program, a so-called SSBN, is scheduled to begin construction by 2021. Requirements work, technical specifications and early prototyping have already been underway at General Dynamics Electric Boat.

Designed to be 560-feet-long and house 16 Trident II D5 missiles fired from 44-foot-long missile tubes, Ohio Replacement submarines will be engineered as a stealthy, high-tech nuclear deterrent.

Production for the lead ship in a planned fleet of 12 Ohio Replacement submarines is expected to cost \$12.4 billion – \$4.8 billion in non-recurring engineering or development costs and \$7.6 billion in ship construction, the plan states.

The Navy hopes to build Ohio Replacement submarine numbers two through 12 for \$4.9 billion each.

Vice Adm. Joseph Mulloy, deputy chief of Naval Operations, Integration of Capabilities and Resources, explained that undersea nuclear deterrence also relies on communication with the E-6 Mercury – a militarized version of the Boeing's 707 civilian airliner that serves as a command and control platform for the Navy's ballistic missile submarine fleet.

"We have 15 of them and they fly airborne national command post missions and they relay strategic communication from the President to the SSBNs in time of emergency," Mulloy said.

The Navy's most recent 30-year shipbuilding plan, called the "Report to Congress on the Annual Long-Range Plan for Construction of Naval Vessels for FY2015," breaks required funding for future ships into three ten-year blocks.

The plan specifies that the Navy will need to increase from \$17.2 billion per year to \$19.7 billion per year, in 2014 dollars, for

shipbuilding from 2025 through 2034 due to the expected production of the Ohio Replacement Program.

The Navy is only building 12 Ohio Replacement submarines to replace 14 existing Ohio-class nuclear-armed boats because the new submarines are being built with an improved nuclear core reactor that will better sustain the submarines, officials have said.

As a result, the Ohio Replacement submarines will be able to serve a greater number of deployments than the ships they are replacing and not need a mid-life refueling in order to complete 42 years of service.

Electric Boat and the Navy are already progressing on early prototype work connecting missile tubes to portions of the hull, officials said. Called integrated tube and hull forging, the effort is designed to weld parts of the boat together and assess the ability to manufacture key parts of the submarine before final integration.

In 2012, General Dynamics Electric Boat was awarded a five-year research and development deal for the Ohio Replacement submarines with a value up to \$1.85 billion. The contract contains specific incentives for lowering cost and increasing manufacturing efficiency, Navy and Electric Boat officials said.

U.S. Rep. Randy Forbes, R-Va., told Military.com he would like to see a special defense budget line item created for the Ohio Replacement Program so that the strategically vital effort was not formally part of the Navy's shipbuilding budget.

Forbes, who chairs the House Armed Services Committee's Seapower and Projection Forces Subcommittee, praised the creation of the National Sea Based Deterrence Fund but said progress still has to be made.

"We've started with a special fund and that is the first step, I think. One of the big things is we have to get that out of being a line-item in the shipbuilding budget and make it a defense line item overall because that is a national strategic concern that we are going to just have to meet," he said.

Forbes has also talked often of a \$4 billion annual shipbuilding budget shortfall, meaning the amount of money needed to accommodate the Navy's plan is well short of the dollars actually spent on shipbuilding. This is something Forbes would like to see addressed in future budget determinations.

Putin's 'Red October': Russia's Deadliest New Submarine

[Franz-Stefan Gady, The Diplomat, Mar. 4](#)

As a follow-up to my previous article "What to Expect from Russia's Pacific Fleet in 2014," I would like to take a closer look at Russia's new backbone of its maritime nuclear deterrence - the Borei-class (aka Dolgorukiy-class), Project 955, fourth generation SSBN (Ship, Submersible, Ballistic, Nuclear) submarine. RT (somewhat predictably) called this new SSBN class, "the planet's most advanced nuclear deterrent tool."

Designed by Rubin Marine Equipment Design Bureau and built by Northern Machine Building Enterprise (Sevmash shipyard), the Borei-class ("North Wind") is intended to replace the Project 941 Typhoon-class and Project 667 BDRM Delta IV-class vessels. This constitutes the first time that Russia has added new SSBNs to its navy since the end of the Cold War. "In a way, the Borei represents a literal rebirth of the Soviet submarine fleet; several boats in the class are being constructed partially from the hulls of scrapped or unfinished Akulas and Akula

Ills," a U.S. naval officer writing for the U.S. Naval Institute notes.

The new Borei-class SSBN is 580 feet (170 meters) long, has a hull diameter of 42 feet (13 meters), and a crew of 107, including 55 officers. It can dive to a maximum depth of about 1,500 feet (450 meters) and yields a submerged speed of roughly 30 knots. The sub has a compact, hydro-dynamically efficient hull for reduced broadband noise and uses pump-jet propulsion. Pump-jet propulsion reduces noise and provides the submarine with a higher tactical 'silent speed' and increased maneuverability. This makes the submarine more difficult to detect.

According to naval-technology.com, the total cost of the first Borei-class SSBN was \$713 million, including the \$280m research and development effort. In comparison, the cost of a U.S. Ohio-class SSBN was around \$2 billion per vessel.

Borei-class strategic submarines carry between 12 to 16 Bulava (RSM-56) ballistic missiles with with 6-10 warheads per missile - each warhead yielding 100-150 kilotons - for a total of 72 to 196 warheads per submarine. The Bulava ballistic missile has a range of over 8300km. Analyzing the Bulava inter-continental missile Lieutenant Commander Tom Spahn, a U.S. naval reserve officer, concludes:

Like its launch platform, the Bulava missile also represents a dramatic leap forward in technology. Similar to its land-based variant, the Topol-M SS-27, to thwart evolving Western ballistic-missile-defense shields, the Bulava can conduct evasive post-launch maneuvers and deploy a variety of countermeasures and decoys to defend against interception. Its ten hypersonic, independently maneuverable warheads are protected against both physical and electromagnetic-pulse

damage to ensure that they can reach their targets intact.

The ship's antisubmarine warfare capabilities are also impressive. The SSBN boasts six torpedo tubes for launching six RPK-2 Viyuga (SS-N-15) missiles. "Each SS-N-15 is capable of carrying a payload of a Type 40 torpedo or 90R nuclear depth charge. The missile can strike enemy submarines within a range of 45 km, while travelling at a subsonic speed of Mach 0.9," according to naval-technology.com.

The Russian Navy is currently operating three Borei-class SSBNs. The first, K-535 Yuriy Dolgorukiy, was commissioned in January 2013 and currently serves in Russia's Northern Fleet. Another Borei-class SSBN, the Vladimir Monomakh, commissioned in December 2014, is expected to enter the service of the Pacific Fleet this year. The Borei-class SSBN Alexander Nevsky, commissioned in December 2013, recently conducted a successful single test-launch of the Bulava inter-continental ballistic missile in the Kamchatka Peninsula.

All in all, the Russian Navy plans to build eight SSBN's of this class (with an option to construct two more) by 2020. The next vessel in the class, the Knyaz Vladimir, is designated as a Project 955A Borei II. It could field four more additional missile tubes (bringing the total number of missiles potentially up to 20) and is currently under construction. According to RT, it will boast smaller hulls and cons, improved acoustics and lower sound levels. A fifth Borei-class sub, the Knyaz Oleg, was laid down at the Sevmash shipyard in July 2014.

The Borei-class submarines are envisioned to remain in service at least until 2040. Tom Spahn, writing for *Proceedings Magazine*, calls the Borei-class SSBN an "impressive platform." He further notes that "the Borei contains the best of modern

submarine technology, including advanced sound-silencing and pump jet propulsion similar to that found on the U.S. Virginia class."

War is Boring quotes an expert in anti-submarine warfare, noting that Russia is the only country in the world that can build a nuclear submarine capable of evading U.S. detection. However, the expert also notes that the "Russian navy right now [in 2013] is just a complete disaster, and on the margins they can get better, but to really get our attention they have to build 10, 20 of these things. And there are no signs they're going to do that. I don't think they have the money for it."

For a more nuanced analysis on the state of Russia's Navy, I highly recommend, Dmitry Gorenburg's analyses here and here. Perhaps we will be lucky and a Russian sub commander will soon dispatch a letter to a Russian admiral, announcing his intention to defect. Then the world shall definitely know more about Russia's deadliest nuclear submarine.

USSVI Long Range Planning Questionnaire

Submitted by: Alfred H Singleman Jr

My name is Pete Rathmell, Base Commander of the USS Snook Base in northwest Arkansas. After being discharged from active duty, I began what would be a 30 plus year career much of it in sales and marketing. I have volunteered to fill the Long Range Planning position at USSVI.

The Long Range Plan I intend to present to the National Officers will deal with two areas critical to our success – MEMBERSHIP GROWTH and MEMBERSHIP RETENTION.

In order to develop this plan, I need your help. I am asking you as the Base POC/Base Commanders to

administer the following survey questionnaire to the members of your Base. Only by getting responses to this questionnaire can I develop a meaningful Long Range Plan for USSVI. The questionnaire is a fillable PDF that can be easily E-mailed.

Please return the questionnaire to my email address: qm3atbream@gmail.com. Click on the link below to go to the 2 page questionnaire.

<https://www.ussvi.org/Documents/Online Organization USSVI Long Range Planning FILLABLE.pdf>

Thank you,

Pete Rathmell

DARPA Seeks Sensors For Sub Hunter

Michael Peck, C4ISR, 30 March

DARPA needs sensors for its anti-submarine drones to prowl the seas without bumping into other ships.

The research agency has put out a request for information to assist its Anti-Submarine Warfare Continuous Trail Unmanned Vessel (ACTUV) project for robotic, sub-hunting surface vessels. DARPA is focusing on the need to comply with International Regulations for Preventing Collisions at Sea, or COLREGS.

"Currently, ACTUV's system for sensing other vessels is based on radar, which provides a '90 percent solution' for detecting other ships," said a DARPA news release. "However, radar is less suitable for classification of the type of other vessels, for example determining whether the vessel is a powered vessel or a sailboat. Additionally, one of the requirements of COLREGS is to maintain 'proper lookout by sight and hearing.'

DARPA wants sensors as well as image-processing hardware and software that uses

passive methods such as electro-optical, or non-radar active sensors such as LIDAR. "The goal is to develop reliable, robust onboard systems that could detect and track nearby surface vessels and potential navigation hazards, classify those objects' characteristics and provide input to ACTUV's autonomy software to facilitate correct COLREGs behaviors," DARPA said.

DARPA is focusing on three areas:

"Maritime perception sensors, including "passive and active imagers in the visible and infrared wavelengths and Class 1 Laser Rangefinder and Flash LIDAR to image ships during day or night in the widest variety of environmental conditions, including haze, fog and rain, over ranges from 4 kilometers to 15 kilometers."

Maritime perception software that can detect and classify ships using non-radar sensors.

Classification software that can identify shapes during daytime and by a ship's navigation lights.

"We're looking for test-ready, multi-sensor approaches that push the boundaries of today's automated sensing systems for

unmanned surface vessels," said DARPA program manager Scott Littlefield. "Enhancing the ability of these kinds of vessels to sense their environment in all weather and traffic conditions, day or night, would significantly advance our ability to conduct a range of military missions."

Local Submarine Events

Submitted by: Ron Takacs

- SATURDAY JUNE 13TH. FLAG DAY IN APPLETON, WI. (CONFIRMED)
- JULY 2ND. WEST ALLIS PARADE (CONFIRMED)
- JULY 4TH. WAWATOSA PARADE (PENDING)
- JULY 9TH.-12TH. SUB FEST IN MANITOWOC, WI (CONFIRMED)

As we get closer to the events I will send out the information.

If any of you know other sub sailors give them my e-mail and have them drop me a line, they are welcome to come also.

Tack

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 ccgaines@mindspring.com

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

COB – Larry Warnke, l_warnke@msn.com

Chaplain – Cris Pascual; 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

Storekeeper – Herman Mueller, 503 Lynn Terrace, Waukegan, IL 60085; 847-445-5034; 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

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 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 (_____)

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