

COLUMBUS BASE SUBMARINE VETERANS

Volume 5, Issue 4

May 2009



THE GREEN BOARD

ALL SEAS ARE NAVIGABLE



Columbus Base Newsletter

Franklin Heights High School *NJROTC SUNSET REVIEW 2009*

The 2009 Franklin Heights High School NJROTC Sunset Review was held on Thursday May 7, 2009. The purpose of the Sunset Review is to celebrate the success of the NJROTC program and to honor the program's cadets. 2009 marks the fifth year of Columbus Base participation and the awarding of the "Columbus Base Award for Military Excellence". It also marks the inaugural year for the "John T. Leers Junior Cadet Achievement Award", created and named in honor of our Columbus Base shipmate, retired Senior Chief, and retired NJROTC military science instructor John T. Leers. Columbus Base members present included: Past Treasurer (and award presenter) John Leers, Vice-Commander Jim Tolson, COB Marvin Pastor, Past Vice-Commander Dave Creekmore, and Treasurer Jim Koogler. In addition to Columbus Base, other participating organizations that provide awards to the cadets include: Military Order of the Purple Heart, Scottish Rite, VFW, Order of Daedalions, Reserve Officers Association, Navy League, American Legion, Sons of the American Revolution, Daughters of the American Revolution, Retired Officers Association, Military Order of World Wars, Noncommissioned Officers Association, and Military Officers Association

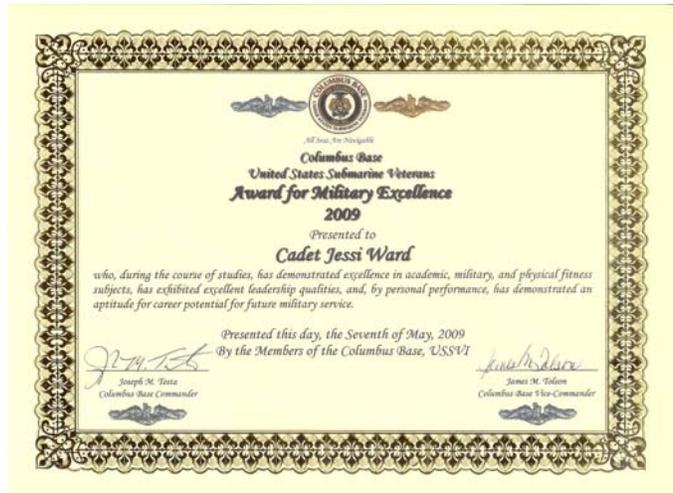
The "Columbus Base Award for Military Excellence" is given to the Senior Cadet "*who, during the course of studies, has demonstrated excellence in academic, military, and physical fitness subjects, has exhibited excellent leadership qualities, and, by personal performance, has demonstrated an aptitude for career potential for future military service*". The 2009 recipient is Senior Cadet **Jessi Ward**. NJROTC Senior Instructor Captain Tom Lennon's recommendation noted: "... I would like to nominate a young lady who has been my right hand person in the absence of Chief Torres. **Jessi Ward** has served as our OPS officer and has done an absolutely fabulous job throughout the year. She has kept the program on track to earn our 10th consecutive Distinguished Unit Award, and run all of our drill meets and community service projects... things typically done by the Chief." Cadet Ward will be attending Columbus State University, concentrating on preparatory courses. She plans to transfer to Ohio State University to pursue a degree in Occupational Therapy. The "Columbus Base Award for Military Excellence" includes a Certificate of Recognition and a \$250.00 cash award.

The “John T. Leers Junior Cadet Achievement Award” is given to acknowledge “... *the exceptional performance, achievement, professionalism, and personal dedication exhibited by a Junior Cadet in the Franklin Heights High School NJROTC program*”. The inaugural recipient is Junior Cadet **Justin Phillips**, whom Captain Lennon says “has really blossomed this year”. No doubt we’ll hear more about Cadet Phillips as a Senior Cadet. The “John T. Leers Junior Cadet Achievement Award” includes a Certificate of Recognition and an inscribed medallion... personally presented by its namesake, John Leers.

Columbus Base congratulates Cadet Ward and Cadet Phillips on their achievements and wishes them well in the future.



NJROTC Cadets at “Parade Rest”, awaiting the beginning of the ceremonies.



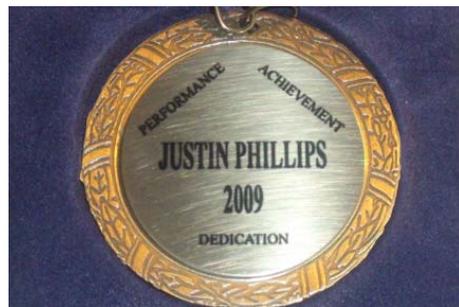
Senior Cadet **Jessi Ward** receives the Columbus Base Award for Military Excellence from Columbus Base Treasurer Jim Koogler



Junior Cadet **Justin Phillips** receives the John Leers Junior Cadet Achievement Award from award namesake, Columbus Base submarine veteran John T. Leers

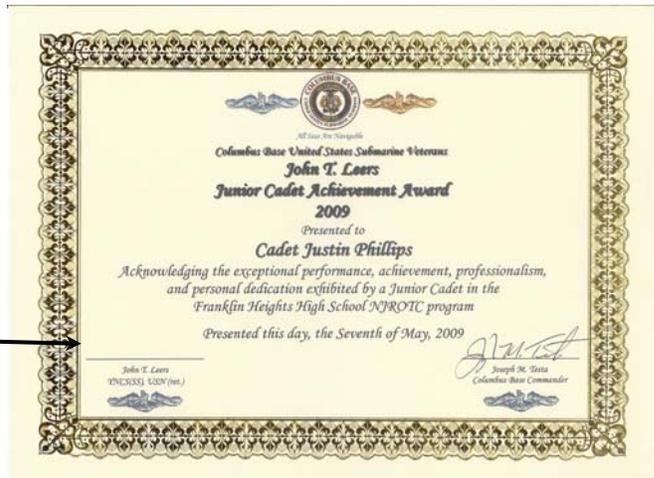


John Leers Achievement Award medal front



John Leers Achievement Award medal Back

Note:
Award scanned before John signed.



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 and its Constitution.”

Upcoming Events

May 23, 2009 12:00 Placing flags at Resurrection Cemetery

May 25, 2009 10:00 am Worthington Memorial Day Parade

June 6, 2009 12:00 Picnic at Buckeye Lake VFW Post 1388

Cincinnati Base Tolling Ceremony
Newport, KY World Peace Bell
May 24, 2009
12:00 PM



Lost Boats



May

USS Squalus (SS-192) Lost on 23 May 1939 with a loss of 26 men when it flooded and sank off Portsmouth NH. The boat was salvaged and recommissioned under a new name.

USS Lagarto (SS-371) Lost with all hands (85 men) on 3 May 1945 in the Gulf of Siam during a Japanese surface attack.

USS Stickleback (SS-415) Rammed on exercises off Hawaii by USS Silverstein (DD 534) on 28 May 1958. All crew safely evacuated prior to sinking.

USS Scorpion (SSN-589) Lost with all hands (99 men) on 22 May 1968 possibly due to own torpedo detonation 400 miles southwest of the Azores in the Atlantic.

Commander's Corner

By Joe Testa



Time to step up

As the weather begins to warm, flowers begin to bloom, and the Columbus Base begins to move into high gear. As Commander of this base, I am very proud of the community events our membership participates in. Hopefully everyone will take part in at least one event this summer, we have a little something for everyone. Vice Commander Tolson mentions some of these in his article, and they some appear in the activities calendar, so I won't duplicate the effort here.

Even more important, it is time to start thinking about the election of Columbus Base officers for the next term. I mention this in May because I would like to take this opportunity to let everyone know that I will not be running for Commander again this fall. As the officers of this base know, but are too nice to mention, I have not had the time to dedicate to this position that is required. I have enjoyed my time as Commander, and it has been an honor to lead this group for the last 18 months, but it is time for some new blood.

Finally, I had the pleasure of presenting the Senior Member of USSVI award to Bill Dumbauld, for 35 years of continuous membership to USSVI. Congratulations to Bill on his service to USSVI, the Navy and the Submarine Force.

Activities Report by Joe Testa

Summer is a busy time for the Columbus Base, and I hope that most members will be able to take part in as many of these as possible.

Next Saturday, 16 May, our parade sub will be at A. D. Farrow Harley Davidson in Sunbury. If you are a Harley rider, or would like to just hang out with some, put on your vest and come on up.

Memorial Day weekend we will join other volunteers at Resurrection Cemetery to put flags on the graves of the veterans buried there. We will be meeting at Noon on 23 May; hopefully we can have as many members as we did last year. On Memorial Day, we will be taking part in the Worthington Memorial Day Parade. The parade begins at 1000, I will be sending out our mustering location and time once I receive it from the parade organizers.

Our next meeting will be a base picnic at the Buckeye Lake VFW, and a separate flyer has been created by the Creekmore's. Afterwards, anyone interested in visiting the new Columbus Base museum at the Creekmore's, is invited to come take a tour. Specifics will be sent out at we get closer, but put this on your calendar. I would like to thank Jan and Dave for volunteering to coordinate the picnic and of course their continued efforts to better the base by hosting the museum.

Sub Vets Picnic



Bratwurst & Hamburgers with all the trimmings.

Furnished by the base.

Please bring your family and come and join the crowd, bring a side dish to share.

After the meal come and visit the submarine collectables at the Creekmore's

Last names A-L bring a side dish and M-Z bring a dessert. Water & soft drinks provided.

Please RSVP to Dave or Jan at 740-928-1780

or e-mail

creek636@columbus.rr.com

By June 3rd.

Columbus Base Sub Vets Summer Picnic

.....
Buckeye Lake VFW Post 1388, 3430 North Bank Rd. Buckeye Lake, OH

Contact person: Dave & Jan Creekmore

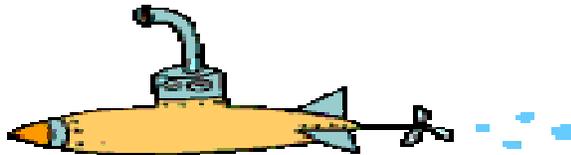
Time: Social at 12:00 , meal at 1:00

Date: 06-06-09



Vice Commander's Corner

By Jim Tolson



The Franklin Heights NJROTC is an impressive group of young people. I shared pictures of the Thursday afternoon awards ceremony with my boss, who grew up in Ohio, and he didn't realize there was such a large high school ROTC program in Ohio. Captain Tom Lennon continues to provide excellent leadership for the Franklin Heights NJROTC program. The John Leers Award and the Columbus Base NJROTC award are a continuing encouragement to these young people. These NJROTC students perform a lot of community service such as presentation of the colors at the Tolling Ceremony. Capt Lennon mentioned they may start helping Columbus Base with our Adopt-A-Highway cleanup.

Columbus Base had a great turnout for the April 18th Adopt-A-Highway cleanup on our 2 mile stretch of I-270. We had enough shipmates to devote at least 2 to each mile segment which allowed a faster completion of the whole process. Thanks to Dave Creekmore for his continued leadership.

Memorial Day is a holiday that started after the end of the Civil War as a day to remember those who died in service to our nation. This year in support of Memorial Day, Columbus Base will be placing flags at the Resurrection Cemetery and will participate in the Worthington Memorial Day parade. Be sure and watch <http://www.columbusbase.com/> for details.



John Falter

Beneath the Surface

If a crew waits too long to fire a weapon by trying to “over-refine the solution to the target” and thus loses a firing opportunity, it is said that they were polishing the cannonball. (Cannonballs work just fine whether they are dirty or not.) This is entirely different from polishing a turd, which is wasting time on a hopeless situation.

Remember to bring your donations of coffee, tea, or hot cocoa to the monthly meetings.

Your donations are very much appreciated by the veterans at the Chalmers P. Wylie

Veterans Clinic.

Columbus Base Recipients of a Presidential Unit Citation

While doing a little research for a piece I was writing I came across a website that listed the 34 WWII submarines that were awarded the **Presidential Unit Citation** and that got me to wondering how many of our Columbus Base Crew Members might have been aboard any of the boats during the periods for which the boats were recognized?

The name of the website is VALOR at SEA and if my examination is accurate I believe we have 3 shipmates who were recipients of the award from the WWII list of subs, Clem O'Brien, John Alexander and Smitty Smith. A different website features the two boats receiving such acclaim during the Cold War and we have 2 Columbus Base shipmates who served aboard those vessels and earned the PUC accordingly, John Pendleton and Bill Holly.



The **Navy and Marine Corps Presidential Unit Citation** is awarded to units of the Armed Forces of the United States and allies for extraordinary heroism in action on or after 7 December 1941 against an armed enemy. The unit must display such gallantry, determination, and *esprit de corps* in accomplishing its mission under extremely difficult and hazardous conditions so as to set it apart and above other units participating in the same campaign. The degree of heroism required is the same as that which would warrant award of the Distinguished Service Cross to an individual.

NOTE: The historical extractions used in this writing came from *Dictionary of American Naval Fighting Ships*, commonly known as DANFS, which is the foremost reference regarding US naval vessels. Published in nine volumes (from 1959 to 1991), it gives histories for virtually every US naval vessel. Some of the extractions have been edited by this writer mostly to omit transiting data to and from assigned operating areas!

As you read each of the "war patrol histories" that I have extracted to feature those events that produced the **PUC** awards I believe you will understand why **we need those who lived it to tell it!** For example, in the DANFS reports we see that a lot of the torpedoes that our boats fired missed their targets but the casual reader will never know that the liability in many of the misses might have resulted from the huge number of faulty torpedoes that our submarines were supplied with. Nor, is there hardly any mention of the severity of the attacks that our submarines suffered by being depth charged, bombed, etc. Fortunately, we now have the WWII war patrol reports available to give us more information and our USSVI affiliation to help set the records straight!

While I was checking the USS ALBACORE'S second patrol report, I noticed an entry logged as 2008 K on 27 November 1942, "With leading destroyer about 5,000 yards range, sound picked up torpedo screws on 185 degrees relative; torpedo passing astern port to starboard. Track not seen. May have been fired by the destroyers, but probably from the submarine or submarines contacted in the area during the preceding two days."

Another entry, logged at 2013 K 14 December 1942, "Sound picked up torpedo screws 090 degrees relative. Assumed to be enemy torpedo or possible erratic circular run of our own. Dove to 120 feet to avoid."

To me these two entries say a lot about the conditions under which our boats were operating to get at targets which they came in contact with in the DANFS reports.

For this month's newsletter we are featuring:

USS ALBACORE (SS-218) and Columbus Base shipmate Clement E. "Clem" O'Brien CDR.

Albacore won the **Presidential Unit Citation** for her second, third, eighth, and ninth patrols and nine battle stars for her service during World War II.



DANFS – *Albacore* sailed on 11 November 1942 for her **second patrol**. On 24 November, the submarine spotted a convoy of two cargo vessels and their escorts. *Albacore* maneuvered into position and fired two stern tubes, but neither torpedo found its target. Two days later, on 26 November, *Albacore* herself became the quarry. Two Japanese destroyers depth charged her, and the explosions caused numerous small leaks around the cable packing glands in the pressure hull. After a two-hour chase, the Japanese retired; and *Albacore* shifted her patrol area to Vitiaz Strait. Another golden opportunity arose on 13 December, when *Albacore* found three Japanese destroyers. She released a three-torpedo spread but again was unsuccessful. On 18 December, *Albacore* was stationed in the area of Madang, New Guinea. The submarine discovered what seemed to be a transport and a destroyer. *Albacore* torpedoed the "transport," and it exploded in a mass of flames and sank. *Albacore* had in fact downed the light cruiser *Tenryu*, a 3,300-ton vessel and the second Japanese cruiser sunk by an American submarine in World War II. *Albacore* put into port at Brisbane, Australia, on 30 December 1942.

Albacore got underway on 20 January 1943 to begin her **third patrol**. Off the north coast of New Guinea, she spotted 11 targets in as many days. The first group, encountered on 20 February, consisted of a destroyer and a frigate escorting a minelayer. *Albacore* fired 10 torpedoes and believed she had downed the destroyer and damaged the frigate. In the following days, *Albacore* attacked one tanker, several freighters, and another destroyer. Of eight torpedoes expended during these actions, all missed their targets. When *Albacore* ended her patrol at Brisbane on 11 March, she was credited with sinking one destroyer and a frigate for a total of 2,250 tons lost.

Albacore departed Australia on the day after Christmas 1943 to begin her **eighth patrol** north of the Bismarcks. She spotted her first target on 12 January 1944 and sank cargo vessel *Choko Maru* with two separate torpedo attacks. Two days later, she blew up the destroyer *Sazanami* with four shots from her stern tubes.

Albacore began her **ninth patrol** on 29 May and was assigned waters west of the Marianas and around the Palaus. During the next few days, she made only one contact, a Japanese convoy which she encountered on 11 June. However, before the submarine could maneuver into attack position, a Japanese aircraft forced her to dive and lose contact.

On the morning of 19 June, *Albacore* raised her periscope and found herself in the midst of Ozawa's main carrier group. Blanchard allowed one Japanese carrier to pass unharmed and selected a second one for his target. He fired six bow tubes. Three Japanese destroyers immediately charged *Albacore*. While the submarine was diving to escape, her crew heard one solid torpedo explosion. About that same time, 25 depth charges began raining down on the submarine. Then Blanchard heard "a distant and persistent explosion of great force" followed by another.

One of the torpedoes had hit Ozawa's flagship, the 31,000-ton carrier *Taiho*—the newest and largest floating air base in the Japanese fleet. The explosion jammed the enemy ship's forward aircraft elevator, and filled its pit with gasoline, water, and aviation fuel. However, no fire erupted, and the flight deck was unharmed. Ozawa was unconcerned by the hit and launched two more waves of aircraft. Meanwhile, a novice took over the damage control responsibilities. He believed that the best way to handle gasoline fumes was to open up the ship's ventilation system and let them disperse throughout the ship. This action turned the ship into a floating time bomb. At 1330, a tremendous explosion jolted *Taiho* and blew out the sides of the carrier. *Taiho* began to settle in the water and was clearly doomed. Although Admiral Ozawa wanted to go down with the ship, his staff persuaded him to transfer to the cruiser *Haguro*. After Ozawa left, *Taiho* was torn by a second explosion and sank stern first, carrying down 1,650 officers and men.

Writer's Note: *Albacore* also holds the distinction of being bombed on two different occasions by American Aircraft on her 7th patrol; the 2nd bombing was almost fatal!

USS Thomas A. Edison (SSBN 610)

Keel laid: March 15, 1960

Launched: June 15, 1961

Commissioned: March 10, 1962

Sponsor: Mrs. John E. Sloane

Decommissioned: December 1, 1983

Recycled: December 1, 1997

Builder: Electric Boat Co. Groton, CT

First Commanding Officers

CAPT. Charles M Young (Blue)

CDR. Walter Dedrick (Gold)

April 9, 1962

USS THOMAS A. EDISON collides with the USS WADLEIGH (DD 689) during antisubmarine warfare exercises. The submarine topside rudder is slightly bent and the destroyer's forward bottom plates are pierced. The EDISON is repaired at Newport News Shipbuilding in several hours while the WADLEIGH goes into drydock for several weeks. According to the Navy the collision resulted from misunderstanding between the two ships and occurred as the EDISON was surfacing. No one was injured.

April 11, 1962

Fire breaks out in the rudder section of the THOMAS A. EDISON. The fire is caused by the heat from a worker's acetylene torch and is brought under control within 30 minutes.

November 29, 1982

USS THOMAS A. EDISON collides with the USS LEFTWICH (DD 984). The EDISON was at periscope depth preparing to surface; it damaged its sail and sail planes, but there was no flooding. Both ships remain in operation after the accident.

Following the shakedown training off the eastern coast of the United States, THOMAS A. EDISON loaded Polaris missiles at Charleston, S.C. and embarked upon her first deterrent patrol on November 7th. She concluded that patrol at the base at Holy Loch, Scotland, where she operated for the next four years and 17 deterrent patrols. In September 1966, her official home port was changed from New London, CT., to Charleston, S.C. in preparation for her first major overhaul. She ended her 17th patrol at Charleston on 15 October 1966 and began her overhaul on the 28th. She completed repairs on 9 May 1968, and, after post-overhaul sea trials and shakedown, she embarked upon her 18th deterrent patrol on 22 September 1968. Over the next five years, she operated out of New London, and Rota, Spain, from which ports she conducted another 19 patrols in the Atlantic.

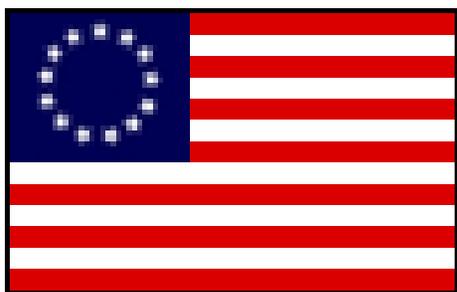
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May Birthdays

Jim Morton	05-03
Jan Creekmore	05-05
Rick Percy	05-08
Sam Templeton	05-12
Jim Koogler	05-20
Jim Rivelli	05-22
Barb McCorkle	05-23
Bruce Rinehart	05-28

Apologies to Bob Frier, we (Dave) missed his birthday last month on 4-12



Editor's Note

If you have comments or articles, please contact the base newsletter editor.

Jan Creekmore at e-mail
creek636@columbus.rr.com



The Conn

Base commander

Joe Testa

Vice Commander

Jim Tolson

Treasurer

Jim Koogler

Secretary

Tom Baughman

Chaplain

Sharon Lloyd

COB

Marv Pastor

Membership Chairman

Storekeeper

Frank Lloyd

Web Master

Cliff Dodson

Editor

Jan Creekmore

USS THOMAS A. EDISON continued

In June of 1973, she was transferred to the Pacific Fleet, arriving in San Diego on 11 July. After a short period of operation with Submarines Group 5, she moved to Vallejo on 6 August to begin another overhaul, this time at the Mare Island Naval Shipyard. On 30 November 1974, the fleet ballistic missile submarine completed repairs and, following shakedown in January and February of 1975, she transited the Panama Canal again in March to fire test missiles near Cape Canaveral, FL. She concluded that mission in July and re-transited the canal on 8 August.

THOMAS A. EDISON carried out operations along the West Coast until December at which time she headed for her new home port, Guam.

On 6 October 1980, the THOMAS A. EDISON was re-designated as SSN 610 to comply with the Salt I treaty and concrete blocks were placed in the missile tubes to disable the submarine's missile launch capability. She served as an attack submarine (SSN) mainly doing exercises until she was decommissioned on December 1, 1983, and stricken from the Navy list on April 30, 1986. On October 1, 1996, the THOMAS A. EDISON entered the Navy's Nuclear Powered Ship and Submarine Recycling Program at the Puget Sound Naval Shipyard, Bremerton, WA. Which was completed on 1 December 1997.



©2002, Chief Jeff Hobrath

The Chief noticed a new Seaman one day and barked at him to get over here. "What is your name?" was the first thing the Chief asked the new guy.

'John,' the new guy replied.

The Chief scowled, 'Look, I don't know what kind of bleeding-heart, liberal pansy stuff they're teaching Sailors in boot camp today, but I don't call anyone by their first name. It breeds familiarity and that leads to a breakdown in authority. I refer to my Sailors by their last name only—Smith, Jones, Baker—that's all. I am to be referred to only as Chief. Do I make myself clear?'

'Aye, aye, Chief!' 'Good! Now that we got that straight, what is your last name?'

The new Seaman sighed and said, 'Darling. My name is John Darling, Chief!'

'Okay ——— John, here's what I want you to do....'



Columbus Base Meeting Minutes 02 May 09

The May meeting was called to order at 1300 by Joe Testa, Base Commander at the Columbus AmVets Post 89 with 30 members and guests in attendance.

The Pledge of Allegiance and opening invocation was lead by Commander Testa

The tolling of lost boats for February was conducted by Treasurer Jim Koogler and the COB Marv Pastor

Secretary's Report was given by Tom Baughman. There was 1 items of correspondence from the Chalmers P. Wylie Am-bulatory Care Center thanking Columbus Base for our April Coffee Donation. It was noted that there were no minutes of the last meeting as it was the Tolling of the Boats and Submarine Force Birthday Dinner

Treasurer's Report was presented by Jim Koogler.

Webmaster Report was given by Cliff Dodson. There are photo galleries of our recent events and a complete archive of Greenboard newsletters.

Chaplin's Report was given by Joe Testa. No members are in the hospital at this time, but C.O. Smith is recovering from surgery.

Membership Report was given by Jim Koogler. There were no new members to report.

Committee Reports

Activities

- 07 May @1700 Franklin Hts NJROTC Sunset Review
1001 Demorest Rd Columbus Oh
- 16 May Armed Forces Day
Our Sub Float will be on display at A D Farrell
- 23 May @1200 Resurrection Cemetery Flags for Veterans Graves
9571 N. High St, Lewis Center, OH
- 25 May @ 1000 Worthington Memorial Day Parade
0900 Muster at location to be announced on 19 May

Adopt-A-Highway had a record 14 members turned out on Saturday and most stayed after for the base Officer's Meeting – and a pizza lunch.

Unfinished Business Nothing to report.

New Business

A Virtual Executive Board Meeting was held from 4/21/09 to 4/24/09 for the purpose of further discussion of the format to be used to present the NJROTC Award. Those in attendance were Joe Testa, Base Commander; Jim Tolson, Base Vice Commander; Jim Koogler, Base Treasurer; and Tom Baughman, Base Secretary. After Jim Koogler shared the feedback from Capt. Tom Lennon of the Franklin Hts, NJROTC a motion was presented by Joe Testa, Base Commander as follows:

“The Franklin Heights NJROTC award will be a \$250 check make payable to the recipient of the senior award, if the cadet is not going to pursue a career in the US Military. If the recipient is going to join the US Military, the award will be a \$500 US Savings Bond.”

The motion was carried by unanimous vote of the attending officers.

For the Good of the Order

Bill Dumbauld was presented with a Certificate and pin designating him as a Senior Member of USSVI. This ia a new award recognizing USSVI members who have maintained continuous membership in good standing for 35 years.

Well done Bill!

Closing Prayer was offered Commander Testa

Motion to Adjourn Jim Koogler, Second Frank Lloyd. Meeting adjourned at 1400 by Commander Testa.

Raffle

The 50/50 winner was Tim Barker and 2 additional prizes declined

Additional winners were:

Bob Wells – Gloves

Cliff Dodson – folding chair and 1 additional prizes declined

Joe Testa – Bread

George Trace – Wine

Denver Smith – Wine

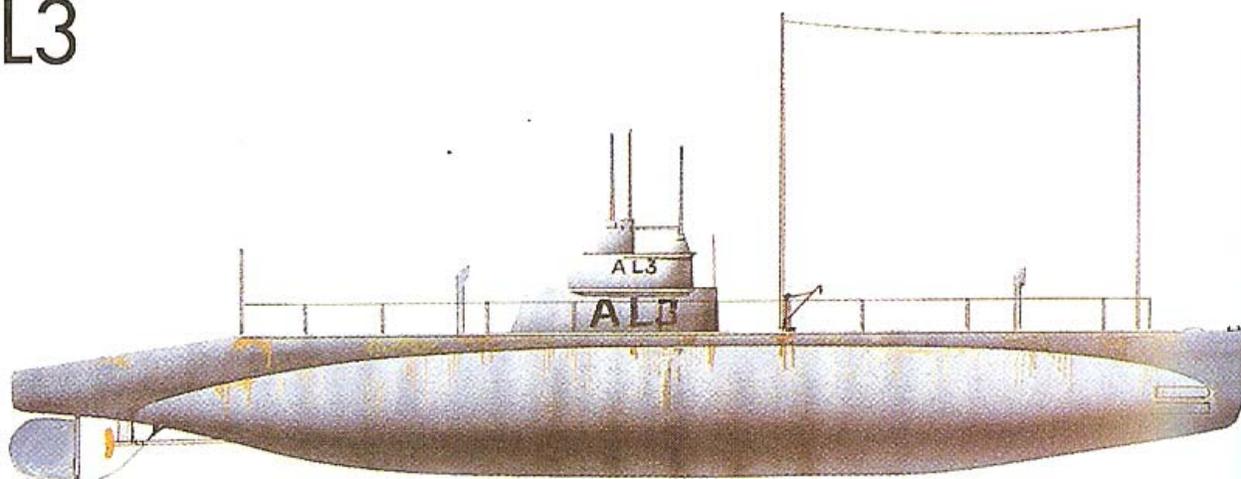
Dave O’Carroll – Key Chain

Bill McCorkle – Bread and 2 additional prizes declined

Gene Horton – Tee Shirt

Submitted by
Tom Baughman,
Base Secretary

L3



L3 was the first American submarine to be fitted with a deck gun. This retracted vertically into a deckhouse until only a small portion of the barrel was left exposed, so reducing underwater drag. The United States ended World War I with about 120 submarines, although by this time she had lost her submarine design lead (established in the early years of the 20th century by John Holland) to the European naval powers. At this time, America's best submarines were roughly comparable with Britain's H and L classes. Very little progress in submarine design was made in the US during the inter-war years, and it took the threat of another war to act as the spur that would once again bring her to the forefront. Her ocean-going submarines soon achieved superiority in the Pacific.

Country:	USA
Launch date:	February 1915
Crew:	35
Displacement:	Surfaced: 457 tonnes (450 tons) Submerged: 556 tonnes (548 tons)
Dimensions:	51m x 5.3m x 4m (167ft 4in x 17ft 4in x 13ft 1in)
Armament:	Four 457mm (18in) torpedo tubes; one 76mm (3in) gun
Powerplant:	Twin screws, diesel/electric motors
Surface range:	6270km (3380nm) at 11 knots
Performance:	Surfaced: 14 knots Submerged: 8 knots