

TNR

INSIDE

Navy Reserve Centennial Review
2016 Reserve Flag Officers
WWII Fighter Ace
Helicopter Sea Combat Squadron 3
Space and Naval Warfare Systems

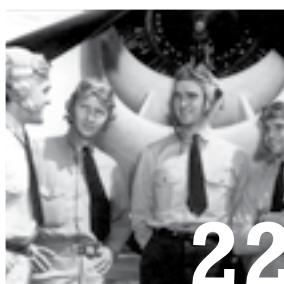
100 YEARS OF THE



**NAVY RESERVE
CENTENNIAL
REVIEW**



**SPAWAR:
BREAKING
THE SURFACE**



**STORY OF A
WWII HERO**



**HSC-3 SCORE:
LIFE AT
THE ROCK**



TIES THAT BIND

◀ Chief of Navy Reserve Vice Adm. Robin Braun and Navy Reserve Force Master Chief C.J. Mitchell visit with Reserve Sailors in Times Square, N.Y. (U.S. Navy photo by Chief Mass Communication Specialist Joshua Treadwell)

▼ **Naval Air Crewman Mechanical 3rd Class Devin Derocher**, assigned to the Globemasters of Fleet Logistics Support Squadron (VR) 56, signals to a C-40A Clipper during a run-up on board NAS Oceana in Virginia Beach, Va.
(U.S. Navy Photo by Lt. Wesley Holzapfel)



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TNR

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TNR is always looking for action photos of Navy Reserve Sailors (minimum 300 dpi) that tell a story of Reserve Sailor support to the fleet. Please provide full identification of all individuals in the photograph, including their respective rating, rank and command. Photos should also include a visual information record identification number or VIRIN. Information about VIRINs is available online at www.navy.mil/photo_submit.asp. Submissions should be received eight weeks prior to publication month (i.e. Sept. 1st for the Nov. issue).

NEWS ONLINE: TNR current and past issues, and Navy Reserve news and social media sites, can be accessed online at www.navyreserve.navy.mil. Navy Reserve News Stand, a website featuring Navy Reserve news and photos, plus links to Navy fleet pages, can be viewed at: www.news.navy.mil/local/nrf.

CHANGE OF ADDRESS: Selected Reserve and Full-Time Support Sailors must submit address changes through NSIPS (Navy Standard Integrated Personnel System) via their Navy Operational Support Center (NOSC) personnel office. If you are not a Reserve Sailor, but would like to be added to the TNR mailing list, please forward your name and address to cnrfc1@gmail.com.

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Vice Adm. Robin R. Braun

Chief of Navy Reserve Vice Adm. Robin Braun poses for a photo with retired Chief J.C. Phillips and former Seaman First Class Robert "Emmett" Stanley at the New Orleans Navy Ball. (U.S. Navy photo)



"The ties that bind us are sometimes impossible to explain. They connect us, even after it seems like the ties should be broken. Some bonds defy distance, and time, and logic. Because some ties are simply... meant to be." - Meredith Grey

Shipmates,

Over the past three years there are a few things about the fall in Washington, DC that I've learned to count on; football, beautiful foliage, and the flurry of activity that comes during the month of October. From the planning for the new fiscal year to new operational support requirements to celebrating the Navy's birthday, it is a busy season – especially for the Navy and Navy Reserve.

One of the highlights of October is, of course, Navy Ball season and this year I had the opportunity to attend Balls in Pittsburgh, Detroit, and New Orleans. With 2015 being the 240th anniversary of the founding of the Navy, as well as the Centennial of the Navy Reserve, there was a lot to celebrate. While these events commemorated the history and traditions of naval service, they also gave all who attended – Sailors, family members, and employers - the opportunity to strengthen the bond that exists between shipmates and those who have made their service possible.

You could feel those bonds at Pittsburgh's Navy Ball where we commissioned NSF Pittsburgh's Senior Enlisted Leader, MAC Paul Erwin as an Ensign with his wife Tammy and son Nicholas at his side. Ensign Erwin then received his first salute from Petty Officer Nick Minnick. We were also moved to hear retired Senior Chief Preston Gardner speak about his service aboard the USS FORRESTAL and how the crew fought the devastating fire in 1967 that took the lives of 134 Sailors. At Detroit's Navy Ball, we saluted Mr. Ray Owen, 93, who as a young Naval Aviator flew combat missions off the USS WASP from 1942-1945. We also watched as NOSC Detroit Sailor, EM1 (SW) Andrew Helfmann got down on his knee in front of his shipmates and proposed to Ms. Katie Golub; she accepted! But one of the most memorable examples of the strong bond between shipmates was when I met retired Chief J.C. Phillips, 91, who had traveled to New Orleans to attend the Navy Ball with his friend and shipmate, 92 year old Seaman First Class Robert "Emmett" Stanley.

Emmett and J.C. were serving aboard the USS LUCE on May 4th, 1945 when two Japanese kamikaze planes attacked from the portside. The LUCE shot down one, but was crippled by the explosion from the bomb it carried. Unable to use her anti-aircraft weapons, she was struck aft by the second kamikaze. Within minutes the LUCE took a heavy list to starboard and the order to abandon ship was passed. Moments later she slid beneath the surface in a violent explosion taking 126 of the 312 Sailors with her. All surviving crew members who were injured in the attack were eventually awarded the Purple Heart – except Emmett, whose records were unfortunately lost.

Earlier this summer, with the help of a Veteran's Service organization, Emmett Stanley contacted the Navy about the oversight. The Navy's Awards Board at the Pentagon verified his eligibility and authorized the award, and NOSC New Orleans helped coordinate the award presentation. At the Navy Ball in the beautiful World War II Museum, with his extended family, 500 guests, and longtime shipmate J. C. O'Brien watching, I was honored to present Emmett Stanley his long over-due Purple Heart. What a moving and memorable evening for all of us!

Over the course of this year we have recognized and celebrated hundreds of Sailors like Emmett and J.C. at Navy Reserve Centennial events across the country. Thank you for everything you have done to make our 100th year such a success. I look forward to working with you as we further our legacy of proud and dedicated service to our Nation.

Vice Admiral Robin R. Braun,
Chief of Navy Reserve

Force Master Chief (AW/SW) CJ Mitchell

Force Master Chief CJ Mitchell with Chief Hospital Corpsman Ganelle Cody, attached to Naval School Explosive Ordnance Disposal, was honored with the Bob Feller Act of Valor Award. (U.S. Navy photo)



Shipmates,

2015 has ushered in a number of considerable milestones for our branch of service.

This October marks the Navy's 240th birthday, and the theme of our Centennial Celebration is aligned to the Navy Birthday – "Ready Then, Ready Now and Ready Always". Whether active or Reserve, we have contributed to the overall Navy mission, and for 240 years, for humanitarian assistance, disaster relief, war or peace; at home and abroad, we have always stood at the ready to answer our country's call to service.

From the birth of our country during the American Revolution, to the present day, Citizen-Sailors have continually sacrificed their civilian and family obligations in order to put on their uniform and do what has been asked of them. In spite of these sacrifices and challenges, almost 60,000 Reserve Sailors CHOSE to serve our country and our Navy – The greatest Navy power in the world.

And this is why I am so honored to have recently observed a personal milestone of my own: It has been two years since I assumed duties as Force Master Chief.

I have found this assignment to be the most exciting, rewarding, and humbling of my career. In the past two years, I have traveled the world from Hawaii to Minnesota to Puerto Rico to Afghanistan to Djibouti. I even met with the Sailors from SCORE Detachment at San Clemente who you will read about in this issue. Everywhere that I have gone, we have wanted to hear from you and see Navy Reserve Sailors in action. Every time I meet with you, the men and women who make up our Reserve force, I am reminded of how you are not only some of the best Sailors our country has to offer, but some of our best citizens who are ready to throw on a uniform at a moment's notice. I have been and continue to be proud of you.

And so, as we head into a new fiscal year and to our next 100 years, I think about what we will face. I think about the Vision of the Navy Reserve in 2025 and I think of your role in it. We continue to desire Citizen-Sailors that contribute and participate toward our bottom line of readiness on behalf of the Navy. To that end, the High Year Tenure Policy has been clarified. In this issue, you will see a graphic and information about the policy, that among other things, allows VTU Sailors to continue to serve while actively contributing after obtaining either a waiver or an exception to policy. Please review this important information with your Career Counselor because VTU Sailors are valued members of the team, executing in a multitude of areas including funeral honors, ADT, GMT/Indoc Training and mobilizations around the world.

Considering the past two years, I am eager to meet and hear from you in the coming year. I hope that you are as excited and proud as I am of our shipmates in the Navy Reserve. I thank you because you are making a difference. Continue to be safe and responsible, and take care of each other as shipmates.

And always be ready, because ready is what we do.

Force 15

FORCM CJ Mitchell

FOCUS ON THE FORCE



First Female Sailor *Chief Yeoman (F) Loretta P. Walsh*

By Master Chief Information Systems Technician James L. Leuci, Naval History and Heritage Command



On October 24, 1937, over 2000 people assembled to witness the dedication of a monument to the first woman enrolled in the United States Naval Reserve Force. Many of the people attending the memorial service were female Navy veterans of World War I – Yeoman (F) Sailors. Thirty years earlier, Loretta Walsh made history by enlisting in the Naval Reserve just prior to the United States entering World War I. She was sworn in by Lt. Cmdr. Frederick R. Payne, in Philadelphia, March 21, 1917. She became the first of 11,000 women to serve in the Navy during the war.

Loretta Perfectus Walsh was born on April 22, 1896 in Olyphant, Pennsylvania. She attended St. Patrick's Parochial & High Schools in Olyphant and Scranton & Lackawanna Business College in Scranton. After graduating from business college, she went to work as a clerk for the Navy League in Philadelphia. Walsh worked for Mrs. Payne, an organizer of the "Woman's Section of the Navy League for Preparedness" and the wife of Lt. Cmdr. Payne. Payne served as the executive officer of the Philadelphia Naval Home and supervisor over all the Navy enlistments in the city.

In the spring of 1917, the United States began preparing for the inevitability of going to war. However, men had not been enlisting in sufficient numbers to meet the demand. On March 19, 1917, Secretary of the Navy Josephus Daniels determined that women could be enrolled in the U.S. Naval Reserve Force and issued an order authorizing their enlistment.

A few days later, Payne received permission from the Commandant of the 4th Naval District to enlist one woman with the idea that the enlistment of a woman might prompt, or shame, young men to enlist. Payne asked Loretta Walsh if she would enlist in the Naval Reserve Force as a Chief Yeoman. She immediately agreed. On March 21, 1917, after procuring and modifying a male Chief Petty Officer's uniform, he presided over the enlistment of Chief Yeoman (F) Walsh at the Naval Home.

Chief Walsh's enlistment was covered by newspapers in Philadelphia and across the nation. Reporters were told of the necessity to enlist women because not enough men were enlisting. The ploy worked and over the following days, before the declaration of war, the enlistment of men, and women, dramatically increased.

Walsh was assigned to the Philadelphia Naval Home. She also volunteered to work in the naval hospital during the peak of the influenza epidemic in 1918. On August 7, 1919, she was discharged because of a service-connected disability and entered the U.S. Naval Hospital in Denver, Colorado. She died on August 16, 1925, due to complications related to tuberculosis and buried in St Patrick's Cemetery in Olyphant, Pennsylvania.

In 1928, the National Yeomen F (NYF) society of female Navy veterans of World War I was incorporated "for patriotic, historical, and educational purposes..." In 1934, the NYF began a campaign to have Loretta Walsh's remains moved to Arlington Cemetery and have a monument erected and an area set aside for the future graves of female Navy veterans of the Great War. However, their attempts did not succeed due to government policy related to Arlington Cemetery. Instead, funds were raised by NYF and other veteran's organizations for a monument dedicated at Walsh's grave in 1937.

Today, the NYF no longer exists since all of the veterans have passed. However, the monument for Navy women of WWI still stands today at the grave of Chief Yeoman (F) Loretta P. Walsh – the first female Citizen-Sailor.





We have many talented people in our Navy Reserve. Each month we highlight our stellar Sailors and some of the unique careers, skills and services they provide to the fleet.



**Logistics Specialist
1st Class
James Yoo Borja
Herron Jr.**

Hometown:
Agana, Guam
Command: Navy Region
Southwest San Diego

Brief description of your Navy job:

Logistics Department leading petty officer, in charge of day-to-day supply operations and the oversight of all supply and financial related matters for 19 NOSC's.

What has been your greatest Navy achievement?

As a Sailor, my greatest Navy achievement was receiving my Surface Warfare pin onboard USS Crommelin, and then later receiving my Information Dominance warfare pin in Bahrain.

Who has been your biggest influence since joining the Navy?

My biggest influence in joining the Navy was my family. I joined the U.S. Navy looking at a second career, at the same time working towards saving and putting my two oldest children through college. I am happy to report that my son is now attending Creighton University and my daughter is at San Diego State University.

What do you enjoy most about the Navy?

Several things I enjoy about the Navy are the people I meet and who have influenced my career, traveling to many different countries, and making a difference at every command I have the pleasure of serving.

Most interesting place visited since joining the Navy:

The most interesting place that I have visited was Isa Air Base, Bahrain. Even though it was dry and hot with temperatures hitting over 100 that place had a wonderful group of people; LSCM Louis Jones, LS1 Shoji Philipose, LS1 Ishmael Mensah, and CS1 Jack Hills. They made that tour of duty a fun and memorable one.

Current hobbies:

I enjoy building model Navy vessels, soccer, and volunteering.



**Aviation Electronics
Technician 3rd Class
Natalia Murillo**

Hometown:
Las Vegas, Nevada
Command:
Navy Operational Support
Center North Island

Brief description of your Navy job:

Aviation Electronics Technician – Intermediate Strand.

Brief description of your civilian job:

Veterans Service Representative with the Department of Veterans Affairs.

What has been your greatest Navy achievement?

Obtaining my Military Outstanding Volunteer Service Medal within my first 3 years as a Sailor through service with seven different organizations including the Escambia County Animal Shelter, USO, and Wounded Warrior Project.

Who has been your biggest influence since joining the Navy?

Veterans. When I hear their experiences and sacrifices made it encourages me to serve and be proud that I can contribute to protecting the freedoms they so valiantly fought for.

What do you enjoy most about the Navy?

The Navy gives me passage to camaraderie that no other community shares, and the opportunities to serve at home and worldwide.

Most interesting place visited since joining the Navy:

I was blessed with the opportunity to represent the United States and support Partnership of the Americas 2014 in Pichindagui, Chile, as a member of Fleet Combat Camera Pacific. Partner nations for this exercise included Argentina, Brazil, Canada, Chile, Colombia, Mexico, and Paraguay.

Current hobbies:

You will often find me in the gym lifting weights, enjoying local events such as 5K runs and Comic Con, or volunteering with non-profit organizations. I also enjoy learning languages and will be adding French to the roster by 2016.

To nominate a Sailor, send an email to cnrfc1@gmail.com for a submission form. Please include a high-resolution (300 dpi) 5" x 7" digital photo of the candidate.





Brilliant on the Basics

By Commander, Navy Reserve Forces Command N15 Force Retention

Ever wondered how to enhance your career? Does your spouse know whom to contact about family assistance? The Navy sets the tone for how we take care of our Sailors and their families throughout their career. This program is known as Brilliant on the Basics (BOB) and uses the acronym SAILOR to highlight individual elements of the program.

S

SPONSORSHIP

Proactive interaction by a sponsor and Ombudsman can mitigate many issues and concerns before the Sailor and family arrive. This ensures each Sailor feels that their new command has a commitment to family support, enabling success for all. The first drill weekend at a command is without question the most influential. During this period, personnel should feel as though their arrival is important to the command. While the mission of commands may vary, the importance of our Sailors is always essential. The actions of leadership to ensure that Sailors have their basic needs met at a new command can influence a family's decision to continue to serve.

A

ASSIGN A MENTOR

Having a mentor is a cornerstone for a successful Navy career.

Formal: The assigning of a mentor through a command program can provide basic guidance and expectations that enable growth and development while creating a culture of Shipmates helping Shipmates. Providing this guidance also guarantees that routine engagement occurs ensuring a successful program.

Informal: Is a natural occurrence that develops as Sailors learn to emulate those traits they desire. Mentorship is a selection made by mentor or protégé. This usually occurs through respect for the leadership observed, or potential seen through work ethic and determination. When a subordinate observes another Sailor displaying traits they admire, they are likely to seek guidance from that Sailor. The same is true for a senior person who observes a hard working individual with a desire to learn.

I

INDOCTRINATION

Command Indoctrination is the foundation for communicating requirements and expectations to newly reporting Sailors. The Indoctrination Program is the Navy's official program to facilitate the integration of Sailors into their new working environment while also presenting the guidance provided by Navy Pride and Professionalism. At this time, leadership defines the command mission, policy and standards to Sailors.

L

LEAD A CDB

Career Development Boards (CDBs) are the primary delivery method to ensure Sailors receive guidance to make informed career decisions based on current policies, programs, and procedures. It is imperative to conduct CDBs, as it ensures each Sailor has the opportunity to interact with the chain of command (COC).

O

OMBUDSMAN

Ombudsmen volunteer to serve as the vital communication link between the command and families.

The role of the Ombudsman includes:

- ★ Support and guidance to command families in adapting to the challenges of a military lifestyle and extended operations in the Navy.
- ★ Resource referrals and resolution assistance on family issues before they become a crisis.
- ★ Family assistance and coordination for deployment preparations.

R

RECOGNITION

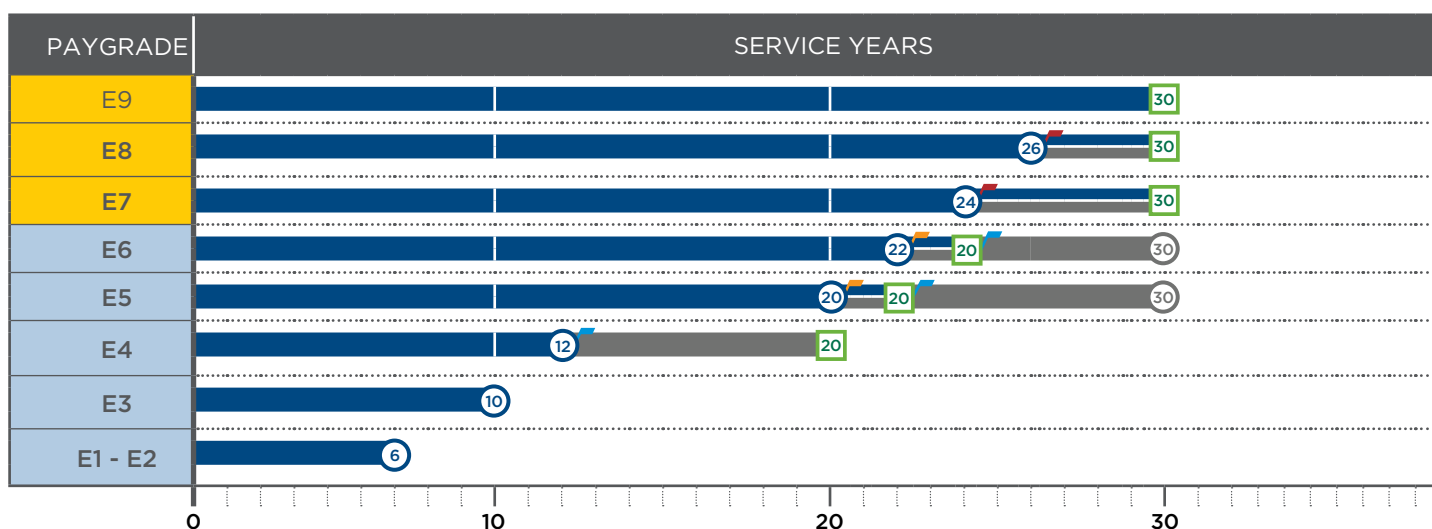
Recognition of a Sailor should be a continuous process. Recognition includes specific action awards, Letters of Appreciation, highlighting accomplishments in the POM and other public venues, or nominations for special programs. Be creative, praise in public, and let Sailors know they are valued. The power of positive leadership is infectious and every leader has the tools of recognize Sailors outstanding performance.

High Year Tenure Policy

for Individual Ready Reserve Sailors

The policy for High Year Tenure (HYT) recently changed and now encompasses Sailors serving in the Individual Ready Reserve (IRR) which includes the Voluntary Training Unit (VTU). This revision is promulgated in MILPERSMAN (MPM) article 1160-120 which outlines the HYT limits for all enlisted paygrades, processing for waiver requests, and a means to request continuation beyond the limits of the policy via an Exception to Policy request (ETP). The intent of the ETP is to provide an opportunity for Sailors who are actively participating and contributing to the mission of the Navy Reserve, e.g. funeral honors, the ability to continue service beyond the limitations of the policy as outlined in MPM 1160-120. The above chart outlines the overall HYT policy for the Selected Reserve and the IRR; please refer to MPM 1160-120 for policy specifics.

Selected Reserve and Individual Ready Reserve HYT Summary



■ Pay = Selected Reserve

○ High Year Tenure = Total Active Component and Reserve Component (FTS, SELRES, IRR) years of service

■ Non-Pay = VTU (Voluntary Training Unit)

□ Good Retirement Years = Number of good years that account toward Reserve retirement

○ Total Years Length of Service = Total Active Component and Reserve Component (FTS, SELRES, IRR) years of service

■ Pay and/or Non-Pay

▬ May serve beyond HYT in pay or non-pay with an approved waiver to achieve 20 good years toward retirement

▬ May serve in non-pay (VTU) with a waiver

▬ May serve beyond HYT in pay or non-pay not to exceed 30 good years toward retirement

NOTE: Exception to Policy (ETP) requests are submitted to OPNAV N13 via command letter head (a sample can be seen here: <https://private.navyreserve.navy.mil/CNRF/N-Codes/N1/Pages/default.aspx>). When applicable, submit the disapproved NAVPERS 1306/7 form as an enclosure. Submit ETP requests within 45 days of receipt of disapproved NAVPERS 1306/7 or in time for adjudication and disposition prior to established HYT date; whichever occurs first. See MPM 1160-120 for further policy details.

NAVY RESERVE



CENTENNIAL 2015



Reserve Sailors celebrated 100 years of Navy Reserve service across the world with demonstrations of pride in history and heritage throughout the year.

Sailors from all 123 Navy Operational Support Centers shared their celebrations with their communities in more than 190 events held between March and October. These events ranged from birthday cake cuttings to community recognition ceremonies and Senate proclamations.

Chief of Navy Reserve Vice Adm. Robin Braun represented the pride of all Reserve Sailors as she visited Alaska, California, Colorado, Georgia, Illinois, Louisiana, Montana, North Dakota, Texas, Washington, Wisconsin and Wyoming, appearing in New York on the Tonight Show, Good Morning America and even ringing the bell at the New York Stock Exchange. Reserve Flag officers were on board to lead the charge, speaking at over 78 Centennial events across the country. Employers were also invited to share in the celebration at a Navy Employer Recognition Event in San Diego, California, where they were able to see first-hand the contributions of their Citizen-Sailors.

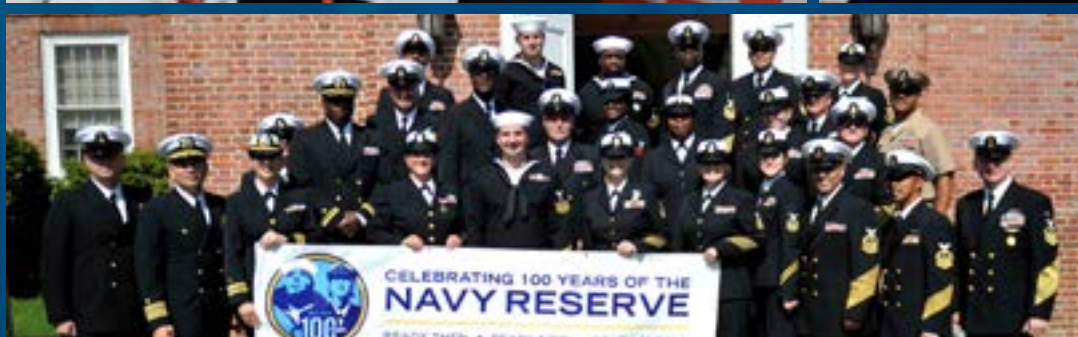
In social media, over 95 commands showcased their units during the “100 Cities on the 100th” photo campaign sharing their Navy Reserve pride on Facebook and Twitter. A Centennial web blog showcased Navy Reserve history and heritage stimulating over 439,000 views, and videos on Reserve history and mission were developed and posted on YouTube garnering over 250,000 views.

2015 was a memorable year for the Navy Reserve Force. A year where Citizen-Sailors from around the world shared in the rich history and heritage of their service. One that will go down in history as the year of the “Navy Reserve.”













BACK TO BASICS



By Vice Adm. Ted N. Branch Deputy Chief of Naval Operations for Information Dominance (N2/N6)

It is no secret. The U.S. government, including the U.S. Navy, is under attack. You are under attack.

The headlines above only scratch the surface of the most recent attention grabbers. Our government and Navy computer networks and systems now face a constant barrage of attacks and intrusion attempts.

The numbers for just our unclassified network, the Navy/Marine Corps Intranet (NMCI), are staggering:

- NMCI blocks approximately 3.5 million spam messages per month.
- NMCI also prevents more than 231 million unauthorized intrusion attempts per month.

The threat is real and comes from a variety of sources including nation states, profit-motivated criminals, and ideologically motivated hackers, extremists, and terrorists.

They are trying to infiltrate and shutdown our systems, compromise or decrease the integrity of our data, and/or steal our personal assets.

Our systems are under attack. You are under attack.

It used to be that cyber attacks and defense were problems left to the IT professionals; the computer experts behind closed doors in the bowels of the ship or the basement of the office building. You rarely heard of the problems or their solutions – not anymore.

If you log on to any Navy network, via desktop, laptop, smartphone, tablet, etc., you are in the cyber battlespace and are directly vulnerable to attack.

“Humans are the weak link in cybersecurity,” according to Michael Daniel, the Special Assistant to the President and U.S. Cybersecurity Coordinator.

It only takes one careless act to wreak havoc on the entire network. For example, the recent shutdown of the DoD and Joint Chiefs of Staff network in the Pentagon was the direct result of someone clicking on a link in an email that came to their official account.

At the headquarters level, we are standing up the Navy Cybersecurity Division within the OPNAV N2/N6 Information Dominance organization, to spearhead the Navy’s cybersecurity efforts.

Coincidentally, as we begin this effort, President Obama has designated October as National Cyber Security Awareness Month. Activities during the next four weeks are designed to engage and educate public and private sector partners with the goal of raising awareness about cybersecurity and increasing the resiliency of the nation in the event of a cyber incident.

Within the Navy, we’re going to use this month to spread the word on cybersecurity. You’ll be hearing about the threat, what the Navy is doing, and what you can do concerning cybersecurity through blogs, tweets, news stories and press coverage.

One of the concepts we will go into detail on is called CYBERSAFE. Similar to the submarine community’s SUBSAFE program, CYBERSAFE is a program to maximize mission assurance for critical warfighting components. An additional goal of the CYBERSAFE program is to change the mindset of everyone within the Navy to “think before you click.” That is... think CYBERSAFE (cybersecurity) every time you log on.

CYBERSAFE is just like damage control onboard your ship. It is an All Hands responsibility. You must be prepared to do your part to make the ship more secure.

Our effort to change the Navy culture on cybersecurity will not end after this month.

Cybersecurity demands constant vigilance, so you will hear about cybersecurity and CYBERSAFE often in the months ahead. I encourage you to pay attention, embrace, and if you see something wrong...do something right. The security of the Navy, and your own (cyber) security depend on it.

Every day the Navy is under attack. You are under attack. Think cybersecurity. Think CYBERSAFE.

THE CYBER THREAT IS REAL



■ VIRUSES & WORMS
Code that infects computers through security failures and replicates itself to spread to other computers.

■ CYBER ESPIONAGE
A stealth attack to gain access to a network and exfiltrate sensitive information and data.



■ MALWARE
Malicious software is code designed to damage, disrupt, inflict or control networks, controllers, computers, or data.

■ ACCESS-BASED ATTACKS

Exploiting compromised digital certificates and passwords to access networks. In 2012, the software to steal certificates increased 10x.



■ HACKING ATTACKS
Hackers can infiltrate networks and computers, and compromise sensitive information more easily as data becomes more interconnected.

TYPES OF ATTACKS



■ LEAD

The Navy Cybersecurity Division leads by ensuring a comprehensive approach to cybersecurity is taken across all Navy missions.

■ ACQUIRE

Focus is on strengthening cybersecurity throughout the product lifecycle. SPAWAR is the Navy's Technical Authority for Cyber and provides the architecture and technical standards required to harden the Navy's networks and equipment.

■ EQUIP

Information Dominance Forces Command (NAVIDFOR) organizes, mans, trains, and equips the cybersecurity workforce.

■ FIGHT

U.S. Fleet Cyber Command /10th Fleet commands a full spectrum of cyber warfare capabilities across all warfighting domains.

NAVY CYBERSECURITY TEAM



ATTACK STATISTICS

Cyber attacks have monetary and mission impacts

■ CYBER ATTACKS EVOLVE

"Morris Worm" attack
Infected 60,000 computers, caused \$100 million in damage

1988

"MafiaBoy" attack
A 15-year-old boy attacked commercial websites, causing \$1.2 billion in damage

2000

TJX hack
Hackers gathered credit card data on more than 94 million T.J. Maxx consumers

2005

OPM data breach
Hackers potentially stole information on more than 21.5 million current and former federal employees

2015

BREAKING THE SURFACE



SPAWAR Sailors provide essential expertise to global unmanned vehicle research

By Cmdr. Eric Pihl, SPAWAR Systems Center-Pacific





Today's unmanned military vehicles can trace their roots to Nikola Tesla whose 1898 U.S. patent of the world's first radio-controlled vessel, an unmanned ship, covered "any type of vessel or vehicle which is capable of being propelled and directed, such as a boat, a balloon or a carriage."

Because Tesla was born in Croatia, it was only fitting that Space and Naval Warfare Systems Command (SPAWAR) Reserve Sailors traveled to Croatia to participate in "Breaking the Surface" (BtS), a program consisting of plenary talks, hands-on tutorials and demonstrations of marine and unmanned technologies.

One of those demonstrations was the Heterogeneous Autonomous Marine Mobile Expeditionary Robots (HAMMER), a SPAWAR System Center-Pacific (SSC-PAC) project assisted by SPAWAR Reserve Sailors. In all, eight Sailors have supported the project spanning almost a year at El Centro and

Camp Roberts, California, and finally Biograd, Croatia.

Dr. Vladimir Djapic, HAMMER project lead, attributes recent developments in technology for the rapid advancement of unmanned vehicle system combinations. "The U.S. Navy aims to create multiple unmanned vehicle systems containing Unmanned Surface Vehicles (USVs), Unmanned Aerial Vehicles (UAVs), and Unmanned Underwater Vehicles (UUVs) for search, identification, and intervention missions at sea." Until recent developments in technology, the combination of USV, UAVs, and UUVs had only been visions for the future.

Now, various research groups from around the world are making the connections needed for the successful implementation of this idea. SSC-PAC plans on creating a successful combination of Unmanned Systems (UxS) for future missions at sea by using a Wave Adaptive Modular Vessel (WAM-V) catamaran USV as the central node and main transport mechanism to



carry UAVs and UUVs to distances over 100 miles,” said Djapic.

During BtS, Djapic and his cadre of Navy Reserve Sailors focused on USV and UAV integration, noting that future developments will include the integration of UUVs.

“Using preexisting software and prototyping programs, a framework was developed to integrate, collaborate, control, and interact with this project,” said Master Chief Fire Controlman Richard Gaughen, SPAWAR 407. “This incorporates a framework for communications and control, as well as a mission control graphical user interface (GUI) that allows users to report and interact with the HAMMER system.”

SPAWAR’s Unmanned Vehicle (UMV) Program was originally founded in 2004 to support unmanned systems in the Global War on Terror. At that time, UMV Reserve Sailors deployed to Iraq and Afghanistan to support Joint Explosive Ordnance Demolition forces.

Since then, UMV has evolved to support elements from SSC-PAC.

In the Department of Defense’s continuing mission to work towards joint security with NATO partners, SSC-PAC and UMV shared emerging technologies with one of those partners, the Croatian Army and Navy. UMV Reserve Sailors briefed them on the Vapor 55, SSC-PAC’s new prototype UAV that will someday land autonomously on a ship.

Working on UMVs provides opportunities to work with professionals

“It was a great joint effort we pulled off with the help of our NATO partners.”

from all over the world. According to UMV Reserve Sailor Chief Information Systems Technician David Welling, SPAWAR 1010, “Typically, we (UMV) only provide maintenance, logistics support and operator training of unmanned systems to U.S. military personnel. This was a great experience to work with a NATO partner.”

With any research, the testing phase can bring unique challenges and hazards. UAV testing requires a much higher degree of heightened awareness. If a UGV fails, a maintainer can walk over and troubleshoot it. If a USV or UUV fails and the water is not too deep, you can still retrieve it. If the USV or UUV is tethered, recovery is that much easier. If a UAV fails ... well, that’s when gravity takes over, and a lot of bad things can happen especially when propellers are involved.

“The event went extremely well,” noted Chief Electronics Technician Kyle Allen, SPAWAR 303. “We had achieved autonomous flight, i.e., you tell the Vapor where to go, it goes there and comes back.”

But complacency can lead to one of those testing “hazards.” Although the flights were autonomous, vigilance remained high. During one memorable test flight, the experience of one UMV Reserve Sailor thwarted a mishap.

“We immediately recognized a

problem, and it turned out to be an issue with the LiPo,” recounted Chief Information System Technician Tommy Lu (SPAWAR 220). The Vapor runs on Lithium Polymer (LiPO) batteries, and the LiPO that Chief Lu had referenced had swollen.

Standard safety protocol kept the team from injury. “I chalk it up to proper operational risk management (ORM) planning,” said Chief Welling. “We had safety observers to insure that all other personnel and guests were behind a barrier at a safe distance. We immediately collected the damaged Lithium Polymer batteries and isolated them in a safe place away from personnel. It was a

great joint effort we pulled off with the help of our NATO partners.”

The team is confident that their work will eventually lead to full integration of all three unmanned vehicles. “Over the next couple of years, the Center for Innovative Naval Technologies-Information Dominance (CINT-ID) HAMMER project aims to successfully integrate unmanned surface, aerial, and underwater vehicles,” said Djapic who also noted the importance of Reserve Sailor contributions. “Without these Reservists, I don’t know how I would get this project completed.”

For opportunities in the SPAWAR Reserve, contact Lt. Cmdr. John Zablocki at john.zablocki@navy.mil. ○





The Story of a WWII Hero

Honoring an American Fighter Ace and Navy Cross Recipient

By Lt. j.g. Holly Quick,
Navy Public Affairs Support Element East



On Armistice Day 1943, 25 years after the end of the First World War, then Ensign Charles "Billy" Watts shot down his first enemy aircraft on his first day in combat while flying the Grumman F6F Hellcat.

His Navy career started in May 1942, five months after the U.S. joined World War II, when Watts completed his second year of college at East Texas State University and decided he wanted to be a Navy pilot.

"I didn't join because I was afraid to be drafted," said Watts. "I joined because I wanted to join the fight."

Watts enrolled in the Naval Reserve V-5 Naval Aviation Cadet program on June 5, 1942, at Naval Air Station Dallas and earned his wings in March 1943 in Corpus Christi, Texas.

In June 1943, Watts joined Fighting

Squadron Eighteen (VF-18) as a Hellcat fighter pilot on the newly commissioned USS Bunker Hill (CV 17). In the fall of 1943, Bunker Hill joined USS Essex (CV 9) and USS Independence (CVL 22) and headed for the battle zone.

Watts completed his first aviation combat mission on November 11, 1943, in the bombing of Rabaul.

"That was our first day in combat," said Watts. "There were 45 of us assigned to the fighter squadron, and of those, there were about three who had combat experience. First day and we didn't know what we were getting into."

Watts had a close call that morning when he saw Japanese tracers near his left wing. "It scared the fool out of me," said Watts. "But my division leader saw what was happening. He double backed and came and shot the guy. The Japanese pilot bailed out of his plane

and we finished our dive without further incident.”

According to Watts, his air group completed their first mission with minimal aircraft loss and significant damage to the Japanese. The air group returned to the carrier for rearming and refueling when the Japanese started attacking the strike group. Watts sat in his aircraft waiting for a break from the Japanese bombs so he could be launched into the attack.

“It was my lucky day,” said Watts. “I dodged a bullet that morning at the raid and when they launched me, just as I left the deck, there was a Japanese dive bomber who made a run on the carrier. He was about 50 feet above the water and about 200 yards in front of me. My guns weren’t charged, so I charged my guns, turned on the switch and started shooting. I had never shot anyone before but I hit him and he went in the water. That was my very first day of combat.”

Watts completed his first tour in March 1944 after continuing to fight battles at Tarawa, Macon and Marshall Islands. He was granted leave and returned to Alameda in May 1944, where he joined Fighting Squadron Seventeen (VF-17). The squadron continued training in California, then went to Naval Air Station Hilo in Hawaii, and finally to Guam where they waited for the USS Hornet (CV 12) to return from the Philippines.

In February 1945, VF-17 replaced another air group on the USS Hornet.

They made raids on Chichijima and supported the invasion of Iwo Jima. According to Watts, VF-17 stayed and fought the Battle of Okinawa from early March until they left on June 8, 1945.

Watts was awarded the Navy Cross for extraordinary heroism in operations against the enemy while serving as pilot of a carrier-based Navy fighter plane and VF-17 division leader, in action against enemy Japanese forces in Kure Bay, Japan, March 19, 1945.

“We went through a space, about

“I didn’t join because I was afraid to be drafted... I joined because I wanted to join the fight.”

20-25 miles that was the godliest anti-aircraft fire you’ve ever seen,” said Watts. “The fiercest, the most intense that I saw anywhere out there at any time. I talked to a lot of guys who were out there on the same day and every one of them agreed that they’ve never seen anything like it.”

According to the Navy Cross Citation, Watts “dived through intense enemy antiaircraft fire to press home a strafing attack on a Japanese aircraft carrier. Unable to release his bomb, he recovered altitude and led his division in a bombing attack on a cruiser. Subsequently, he aided in strafing a large tanker which was left burning, and assisted in an attack on an airfield which resulted in the destruction of six parked aircraft and the infliction of

severe damage on airfield installations and hangars. He took part in strafing and exploding a locomotive and then joined in two strafing runs on a seaplane base, destroying two four-engined patrol planes and two single-engined seaplanes and inflicting serious damage on seven others.”

Watts shot down a total of eight and three-quarters aircraft, including many Kamikazes, which earned him the prestigious title of American Fighter Ace. The distinguished group of elite aviators is comprised of 1,447 combat pilots who shot down at least five enemy aircraft in air-to-air combat from World War I to Vietnam.

The American Fighter Aces were awarded the Congressional Gold Medal for heroic military service throughout the history of aviation warfare at a ceremony at the Capitol’s Emancipation Hall May 20, 2015.

Watts left active duty in September 1945 and continued to serve in the Navy Reserve until 1959. After getting married in December 1945, he moved to Dallas and attended Southern Methodist University, where he graduated with a business degree in 1947. He drilled with a Reserve unit at Naval Air Station Dallas and retired as a lieutenant commander.

Watts, who is now 94 years old, lives in Shreveport, Texas, with his wife of 69 years. They have three children, five grandchildren and three great grandchildren. ○





▲ Aviation Warfare Systems Operator 1st Class Erik Duesler assigned to the Merlins of Helicopter Sea Combat Squadron (HSC) 3 SCORE Detachment recovers a MK30 training torpedo with a MK2 cage. (U.S. Navy photo by Mass Communication Specialist 1st Class Louis Rojas)

By Lt. Cmdr. Eric Bernsen
Helicopter Sea Combat Squadron Three
Southern California Offshore Range Detachment



It is mid-summer, about 4:30 a.m. San Clemente Island time. There is little more than a faint glow over the rising terrain to the east accompanied by a cool ocean breeze from the west. The only audible sounds are the wind across the tarmac, peeps from a few loggerhead shrikes, and the distinct clatter of a helicopter cabin door shutting somewhere on the ramp.

Today's mission includes a 7:00 a.m. launch, hence the early hour. The schedule also calls for the launch and recovery of multiple helicopter-launched and submarine-launched torpedoes throughout the afternoon. It is shaping up to be a busy day.

For now there is minimal action on the whole of the Island.

AT THE ROCK



Helicopter Sea Combat Squadron Three Southern California Offshore Range Detachment



The one notable exception is the Island's earliest risers: the maintainers of the Helicopter Sea Combat Squadron Three Southern California Offshore Range Detachment (HSC-3 SCORE). They are hard at work readying two MH-60S helicopters for the morning's support mission.

The SCORE Detachment is composed of 112 personnel- 56 Full-Time Support and 56 Selected Reserve Sailors including 16 pilots, 16 Aircrewmen and 80 maintainers. HSC-3, the detachment's supported command, is a Fleet Replacement Squadron located on Naval Air Station North Island. Although North Island is the SCORE Detachment's home, San Clemente

Island is a frequent travel destination.

The SCORE complex is several hundred square miles of maritime instrumented tactical training range off the west coast of San Clemente Island. "The Rock," as it is affectionately known, is located 70 miles due west of San Diego. San Clemente Island and SCORE are host to surface, submarine, and aviation exercises every week of the year, from thousands of feet in the air to hundreds of feet below the surface. This is where the SCORE Detachment comes in.

In a nutshell, the HSC-3 SCORE Detachment specializes in logistics. Whether it is the launch and recovery of Anti-



▲ Aviation Electronics Technician 3rd Class Jesus Molina, left, and Aviation Ordnanceman 3rd Class Nick Cheever, right, both assigned to the Merlins of Helicopter Sea Combat Squadron (HSC) 3 SCORE Detachment hook up a lightweight recovery net for a MK54 torpedo recovery. (U.S. Navy photo by Mass Communication Specialist 1st Class Louis Rojas)

Submarine Warfare targets and torpedoes in support of a fleet training exercise, moving personnel and equipment to and from “The Rock,” or hauling buckets of water for aviation firefighting in support of the California Department of Forestry and Fire Protection (CALFIRE), the SCORE Detachment does it.

A typical day on the range includes at least the launch and recovery of the Mk-30 acoustic training target. The Mk-30 simulates the acoustic signature of a submarine posing as quarry for surface, submarine and aviation assets on range. Ships, submarines and helicopters track and attack the Mk-30, firing weapons of their own. At the end of the day, the SCORE Detachment recovers everything from the ocean’s surface. What follows is a typical intercommunications system exchange:

At that moment, the aircraft instantly gains about 3,000 pounds as it lifts a Mk-2 “Golf Cage” containing a Mk-30 hanging 60 feet below the aircraft. It is but one of several tools the Detachment uses to recover targets and torpedoes. Other recovery equipment include a Mk-30 launch rack, a net for lightweight torpedo recovery, and a snare pole used in the recovery of torpedoes and drones.

“The SCORE Detachment Reservists all tend to put in a little more than the one weekend a month, two weeks a year.”

Unfortunately substantial wildfires have become a routine occurrence each California summer. As the drought has worsened, the last few years have been particularly tense. The SCORE Detachment first procured Bambi fire buckets in the mid-90s to provide helicopter firefighting support to San Clemente Island during onshore Naval gunfire exercises. The highly destructive Cedar fire in San Diego County in 2003 resulted in a close

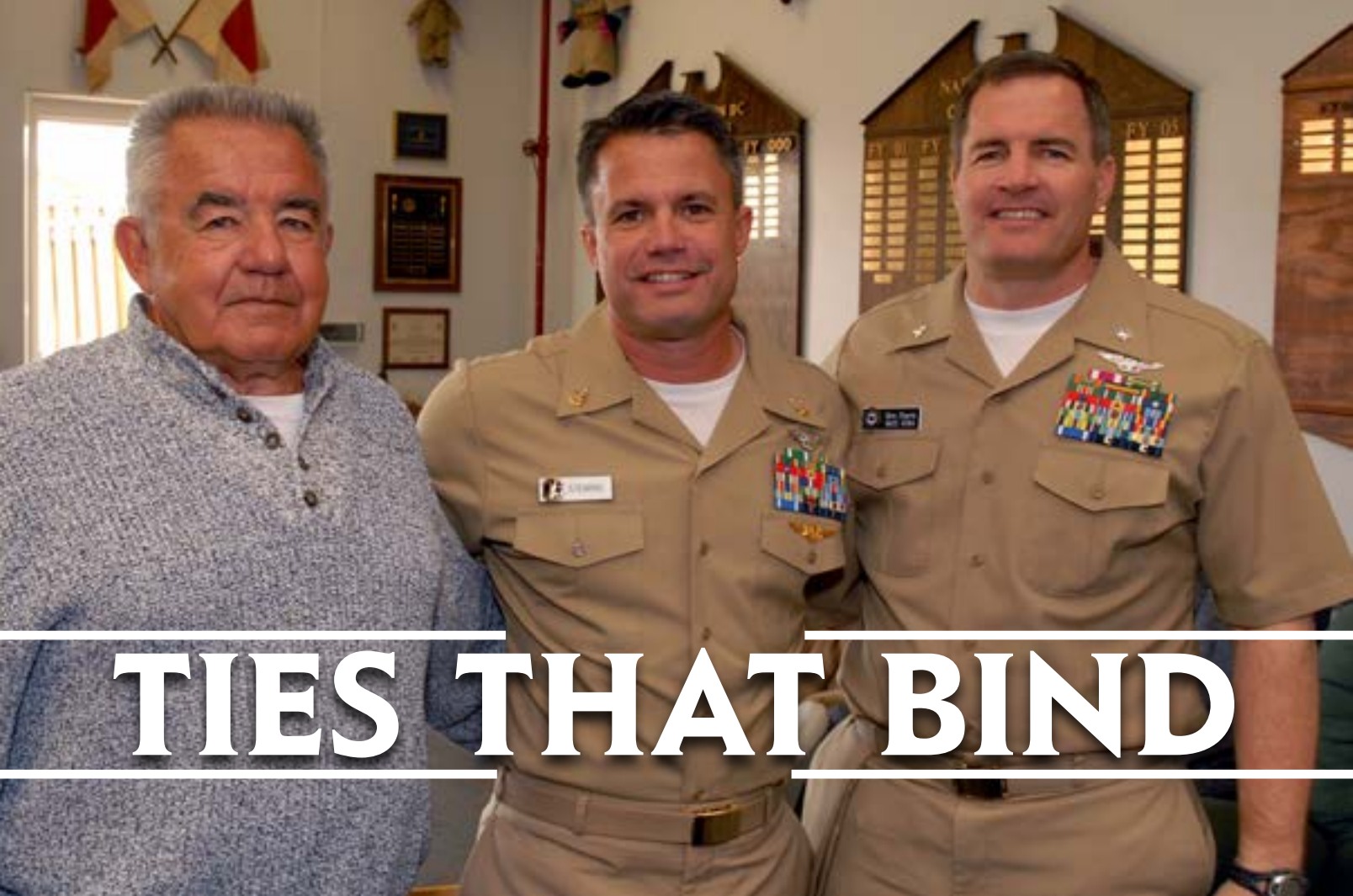
working relationship between the detachment and CALFIRE. Since then, detachment crews have assisted CALFIRE in a number of firefighting efforts throughout the state, and stand ready every fire season, along with crews from HSC-3 proper, to answer when called. The SCORE Detachment maintains a total of 21 Bambi Buckets and is the firefighting training program manager for

eight San Diego-based helicopter squadrons.

The SCORE Detachment Reserve Sailors all tend to put in a little more than the “one weekend a month, two weeks a year,” but it is a labor of love. As one of the few operational Reserve units on the west coast, there is a palpable pride that permeates the Detachment. When the last target is recovered, most will return to their day-to-day gigs – well, at least until the next range



▲ **Naval Aircrewman 1st Class Patrick Blaise**, assigned to Helicopter Sea Combat Squadron THREE (HSC-3), conducts a water drop during a wildfire. (U.S. Navy Photo by Mass Communication Specialist 2nd Class Sebastian McCormack)



TIES THAT BIND

By Mass Communication Specialist 1st Class Leona Mynes, Reserve Component Command Southeast Jacksonville

In 2004, then Lt. Cmdr. Chris Stearns, maintenance officer for Ali Al Salem Airbase, Kuwait, eagerly greeted a Fleet Logistics Support Squadron 53 C-130 loaded with parts essential to getting battle-damaged helicopters flying again.

Dust and sand engulfed Stearns as he approached the plane to receive the parts.

It had been an arduous mobilization. Stearns was delicately balancing the extreme stress associated with receiving parts to repair damages to the small fleet of Marine AH-1W Super Cobra helicopters on station with the separation from his two children and wife back at home. He had also recently learned that his brother, Stephen, also a Reserve Sailor, had deployed to the Middle East.

The C-130 opened up. Expecting an immediate offload, he was surprised to instead see a very familiar face coming toward him: then Aviation Electrician's Mate 1st Class Stephen Stearns, the C-130's loadmaster.

The brothers embraced, both feeling an immediate relief and kinship only two brothers can when they undergo the rough transition from civilian life to combat-ready Sailor within months of one another, doubling the stress on their parents and families. The visit was brief. They took pictures to send home and parted ways.

Fast forward to 2015, and both brothers are still serving. Stephen Stearns accepted a commission, trading senior chief

petty officer anchors for ensign bars in 2013.

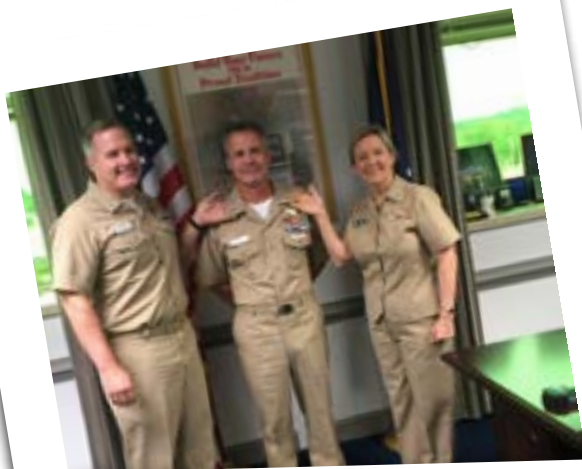
His promotion to lieutenant junior grade took place aboard a C-130 flying over Washington, D.C. His re-enlisting officer was now Capt. Chris Stearns.

Capt. Stearns serves as the commanding officer of the Naval Air Systems Command's Reserve Program, program executive office support unit. He holds a bachelor's of science degree and a master's of business administration.

Lt. j.g. Stearns serves with Naval Air Systems Command's Reserve Program as a project officer. He has a bachelor's in information systems management, a master's of business administration and a master's of science in project management, which led him to his career choice as a civilian Navy program manager whose primary role is to manage Navy MH-60 Seahawk helicopter data links and full motion video systems.

After all those years, the brothers now drill at the same Navy Operational Support Center in Washington, D.C.

Combined, the brothers have more than 70 years of Navy Reserve service. Together, they have earned 38 campaign and service decorations with 45 devices in lieu of multiple awards. They have been assigned to more than 24 commands and have received orders to serve at more than 30 worldwide locations. Both graduated from St. Mary's Ryken High School in Leonardtown, Maryland, and immediately joined the Navy six years apart, before attending college while serving as Reserve



Stearn brothers, Kuwait 2003



Stearn brothers and father, Bill Stearns

“He is the definition of integrity, he has taught me to take the hard jobs, do them right the first time, and never take no for an answer when you are right.”

Sailors. They both began their careers in enlisted aviation rates before later accepting their commissions.

A monumental influence in their lives, their father, Bill Stearns, retired as a senior chief petty officer after which he continued his service as a federal employee.

“He is the definition of integrity,” Lt. j.g. Stearns said. “He has taught me to take the hard jobs, do them right the first time, and never take no for an answer when you are right.”

The brothers gleaned much of their commitment to service from their father, who pushed both to join the Navy Reserve in aviation ratings.

“My father brought it up as a good idea and said aviation electronics technicians would have a good future,” Capt. Stearns said. “I wanted a good technical skill and a resume builder as I started college.”

For Lt. j.g. Stearns, the conversation seemed perhaps a little more one-sided, as his dad told him it was essential to his future to join the Navy. He turned to Capt. Stearns for advice.

“What I explained to him is what was important to me at the time, and now, come to think of it,” Capt. Stearns said. “The deployments were great, the dual resume was great, the marketable skill was great, but most of all, it was the shipmates who we would see once a month with whom we would work hard, play hard, and share adventures.”

Capt. Stearns said that the Navy Reserve offers them another

dimension to their lives. The mutual understanding of Reserve responsibility coupled with civilian life has gone a long way toward supporting one another’s families during separation.

The Stearns family Navy tradition is already trickling down to the brothers’ children. Capt. Stearns’ daughter, Samantha, 17, received a Navy Reserve Officer Training Corps scholarship to college, and his son, William, 15, is working toward one.

Lt. j.g. Stearns’ daughter, Lana, 21, enlisted as an active duty cryptologic technician and will depart for boot camp in December. His daughter, Bronwyn, 13, has dreams of becoming a Navy pilot. His eldest son Matthew, 24, is considering joining the Navy or Coast Guard within the next year.

The brothers’ nephew, Cameron, recently accepted an appointment to the U.S. Naval Academy.

Though separation from family has been the struggle for each of their three-plus decades of service, they never allowed it to deter them from the call of service.

In the large den of their parent’s home, medals, military decorations, shadowboxes and photographs hang as memories of military service throughout the Stearns family.

Capt. and Lt. j.g. Stearns grin out of one photo in the hot desert of Kuwait during their 2004 mobilizations. They are beaming with pride and love. A love of service and country, and a brotherly love that has kept the family together throughout the years across the globe.○

Paul Branum

Navy Reserve Forces Comptroller

With over 41 years of government service, Paul Branum began his career as a midshipman at the U.S. Naval Academy.

Upon graduation, he entered the surface warfare community serving in sea-going commands across the globe before entering the field of government budgeting and financial management. It was soon after this change that Branum reported to his first budgeting job at the Pentagon on the Chief of Naval Operations staff as a Financial Analyst, and then Financial Management Division Director for the Director, Naval Reserve.

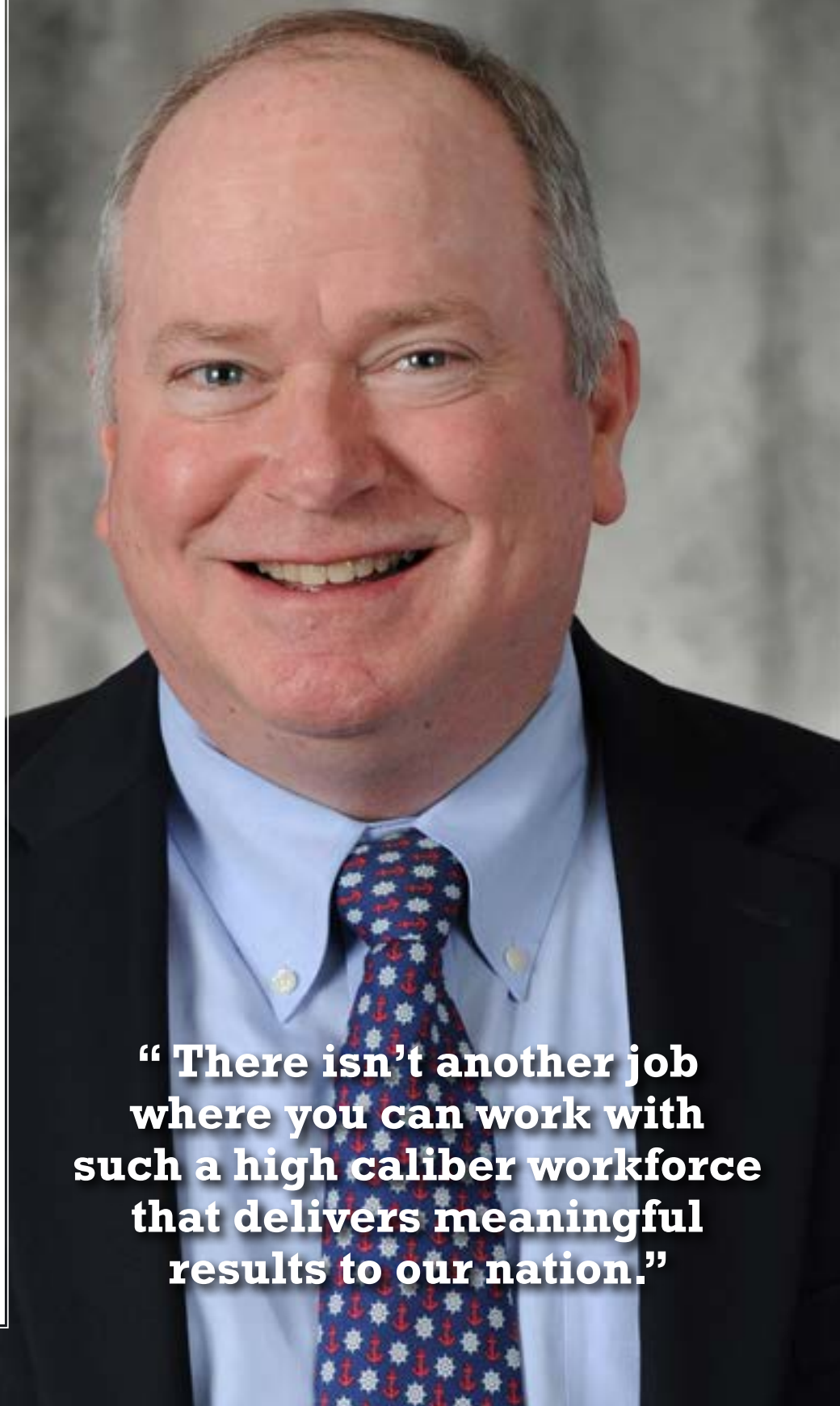
After 28 years of military service, then Capt. Branum, retired from active duty to continue his service to his country in the civilian service.

As a civilian he has served as Financial Advisor to Commander, Naval Surface Reserve Force and then Deputy Comptroller for Commander, Naval Reserve Force.

In 2009, Branum assumed the duties of Comptroller, Navy Reserve Force where he now serves at the headquarters in Norfolk, Virginia.

Branum enjoys the dynamic aspects of being a Comptroller where every day, month and year presents unique funding challenges.

With over 29 years of service to the Navy Reserve alone, Paul Branum has earned a "Centennial Salute."



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where you can work with
such a high caliber workforce
that delivers meaningful
results to our nation.”**

RESERVE FLAG OFFICER CLASS OF 2016

**Rear Adm. Doug "Woody" Beal (Aviation/1315), Deputy Commander, Navy Recruiting Command**

Prior to his promotion to Rear Admiral (lower half), Beal was assigned as Reserve Chief Staff Officer, U.S. Fleet Forces Command. Beal's command tours include Strike Fighter Squadron 201 (VFA-201), Reserve Component Commander for Training Air Wing FIVE, and augment units supporting Navy Reserve Carrier Strike Group U.S. SECOND Fleet, Strike Force Training Atlantic, and U.S. Fleet Forces Maritime and Air Operations Headquarters. Rear Adm. Beal was commissioned through AOCS in February 1987. He holds a B.S. in Aerospace Engineering from Purdue University, an M.S. in Engineering Management from Southern Methodist University, and an M.S. in National Security Studies from the National War College.

**Rear Adm. Grafton D. "Chip" Chase, Jr. (Supply Corps/3105), Reserve Director, Logistics Programs and Business Operations, OPNAV N41**

Prior to his promotion to Rear Admiral (lower half), Chase was assigned as Deputy Chief of Staff for Reserve Operations, Navy Supply Systems Command Global Logistics Support. Chase commanded Fleet and Industrial Supply Center Norfolk Det 207; Navy Cargo Handling Battalion EIGHT; Defense Finance and Accounting Service Cleveland 105; and Commodore, FOURTH Navy Expeditionary Logistics Regiment. He mobilized in 2005 as Deputy Commander, Navy Expeditionary Logistics Support Force Forward, Camp Arifjan, Kuwait and in 2010 as Commander Task Group 56.3. Rear Adm. Chase was commissioned through OCS in 1986. He holds a B.A. in Economics from Syracuse University and a M.A. in Finance from LaSalle University.

**Rear Adm. Darren Hanson (Surface Warfare/1115), Reserve Deputy Commander, Navy Expeditionary Combat Command**

Prior to his promotion to Rear Admiral (lower half), Hanson was assigned as Vice Commander, U.S. Naval Forces Korea (CNFK) and Commanding Officer, CNFK Reserve Headquarters Port Hueneme, CA. Previous commands include Submarine Group 9 Force Protection Det 1, Mobile Inshore Undersea Warfare Unit 101, and Maritime Expeditionary Security Squadron 11, where he deployed to UAE as Commander, Task Group 56.7. He also mobilized to U.S. European Command, Stuttgart Germany, serving in the J3 and J5 Directorates. Rear Adm. Hanson was commissioned through OCS in 1988. He holds a B.S. in Mechanical Engineering from University of Washington and a M.A. in Strategic Studies from the U.S. Naval War College.

**Rear Adm. Brian Hurley (SUB/1125), Deputy Commander, U. S. SEVENTH Fleet**

Prior to his promotion to Rear Admiral (lower half), Hurley served as Commanding Officer for the Navy Reserve Navy Installation Command Headquarters at the Navy Yard. He previously served as Commanding Officer of units supporting the USS Emory S Land, Amphibious Construction Battalion Det 111, Submarine Learning Center San Diego, Submarine Development Squadron Twelve, and Joint Staff - South. Rear Adm. Hurley graduated from Texas A&M University in 1987 and was commissioned through OCS in 1988. He holds a B.S. in Electrical Engineering, and is certified as a Professional Engineer in Texas and Virginia.

**Rear Adm. Andrew Lennon (SUB/1125), Reserve Deputy Commander, Submarine Forces**

Prior to his promotion to Rear Admiral (lower half), Lennon was assigned as the Director, Submarine Force Reserve Component. Lennon's previous command tours include Mobile Mine Assembly Unit SIX, NR Submarine Squadron 22, NR Submarine Group TEN SSGN Det, NR NATO ACT Det Atlanta and NR Maritime Partnership Program Det 205. Rear Adm. Lennon was commissioned through USNA in 1987. He holds a B.S. in mathematics and master's degrees from George Washington University in Operations Research and in Engineering from Johns Hopkins University.

**Rear Adm. Daniel MacInnis (AEDO/1505), Vice Commander, Naval Air Systems Command**

Prior to his promotion to Rear Admiral (lower half), MacInnis was assigned as the Commanding Officer Navy Reserve Naval Air Warfare Systems Weapons Division (NAWCWD) in China Lake, CA. He also commanded Navy Reserve Naval Air Systems Command, Special Operations RAF. MacInnis deployed in 2006 as OIC of Tigershark Detachment 1 in Habbaniya, Iraq and again in 2013 to Afghanistan as OIC of the Persistent Ground Surveillance System, a network of over 40 aerostats providing force protection and ISR to forward operating bases throughout Afghanistan. Rear Adm. MacInnis graduated from USNA in 1986 with a B.S. in Aerospace Engineering. He also holds an M.S. in Aerospace Engineering from the University of Maryland and a M.S. in Engineering and Management from Massachusetts Institute of Technology.

**Rear Adm. Katherine A. McCabe (HR/1205), Reserve Deputy, Military Personnel, Plans and Policy, OPNAV N13R**

Prior to her promotion to Rear Admiral (lower half), McCabe was assigned as the Commanding Officer, Navy Reserve, CNO N1, Navy Total Force. McCabe's previous command tours include NR Naval Network Warfare Command, NR NCTAMS LANT Det B, and Naval Construction Force Support Unit Det Three. She mobilized to NATO Training Mission-Afghanistan as the senior advisor to Afghan National Security Forces Recruiting and Retention and later served as Director for the NAVSEA Wounded Warrior Program. Rear Adm. McCabe was commissioned through NROTC in 1988. She holds a B.A. in Business Administration from Villanova University and an M.S. in National Security Studies from the Naval War College.

Navy Reserve Force Phone Directory



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