



# RDP-21 NEWSLETTER



## RDP-21

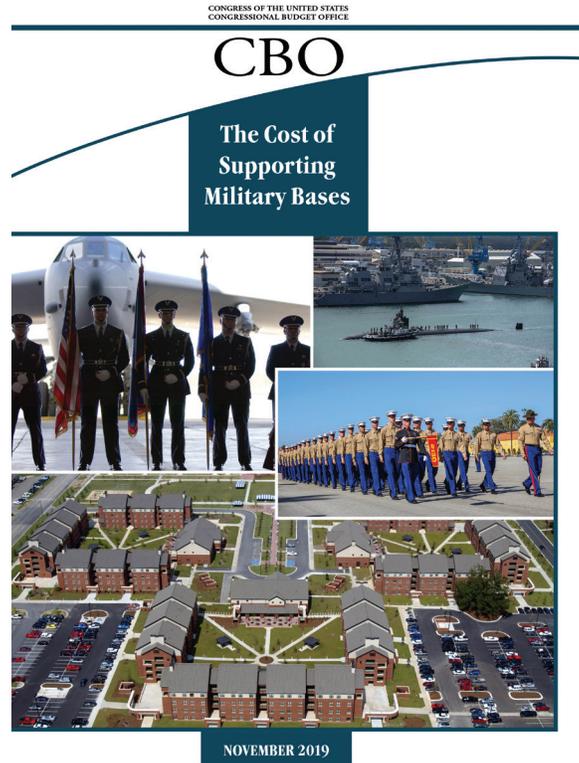
### THE POSITIVE ECONOMIC IMPACT OF MILITARY ON OUR COMMUNITIES

Communities with a strong military presence have the financial benefit of stable revenue while communities with a dependency on travel, tourism, conventions and related spending continue to face unprecedented revenue challenges. You can reinforce the financial contribution of military salaries, spending and investment in your communities. A state impact report and a national defense spending report is available (see discussion below). Member organizations continue to assess their own communities.

California's per-job costs are higher than every other Western state, and most other large states. The high cost of creating additional jobs puts California at a substantial competitive disadvantage when attempting to retain or attract businesses that have a choice where to locate. (Source: centerforjobs.org.) Further, cost of building and sustainment in California is higher than many other states as shown in the Congressional Budget Office report *The Cost of Supporting Military Bases*, November 2019. Of course the details are needed for clarity. Basing decisions are based on costs, of course, but also conclusions such as these:

BUDGET OFFICE INCLUDE THE FOLLOWING:

- Base Operations Support (BOS) costs are strongly related to the number of a base's employees and its square footage of building space.



- With other base characteristics unchanged, BOS costs associated with an increase in population were lower at larger bases than at smaller bases. For example, in 2016 BOS costs increased by \$1,000 for each employee added to bases with 25,000 or more employees, but they increased by \$14,000 at bases with 5,000 or fewer employees. That finding implies that it would be more cost-effective to expand the population at larger bases than at smaller ones, everything else being equal.

- Other characteristics that affect BOS costs at a base are the branch of service that operates it, the mission of the units that it hosts, its location (inside or outside the United States), and its climate, although the effects of those characteristics are not as significant.

The CBO report can be found at the web site:  
<https://www.cbo.gov/system/files/2019-11/55849-CBO-BOS-costs.pdf>

THE KEY FINDINGS OF THE CONGRESSIONAL



# CALIFORNIA DEFENSE COMMUNITIES ALLIANCE



CDCA continues working on behalf of our California's defense installations, military members and local communities in order to make progress on critical issues as we all adapt to the challenges of new policies, budgets and the question: When can we meet in

person to talk about these?

Gathering insights from members improve the effectiveness and accomplishments of our organization.

One issue important to CDCA is reciprocal licensing. CDCA will pursue actions that can help our communities and military families through reciprocal licensing for those already licensed by other state's licensing or certifying agencies.

## CDCA AND 2021

We encourage all members to join the effort by submitting data you may hold or be able to obtain including anecdotal experiences in order to build the arguments in favor of legislative actions. Licensing and certifying agencies need to know that lengthy procedures, arbitrary requirements and duplicative testing has a negative impact on families but also state readiness and response in emergency situations.

New legislation is being submitted on topics of interest to CDCA during the new legislative session that started in January. We will track the legislation and advocate for legislation of interest to the CDCA membership. Legislation we support competes with 3000 other bills.

Of import to members is election of the CDCA Executive Board. Details are provided below.

*Information relevant to CDCA can be sent to Craig Hodson (craig.hodson@rdp21.org).*



## CDCA BOARD MEETING, EXECUTIVE BOARD ELECTION, AND WEBINARS

According to the CDCA Bylaws, a Board of Directors meeting will be scheduled before the start of the next fiscal year (July 1, 2021).

Board membership is comprised of one representative from each of the Community Support Organizations and Local Government Support Organizations. Each member organization will determine their representative for each fiscal year. Sixty days prior to annual board meeting, each member organization will provide the name of the member who will represent them for the next year to the co-chairs.

The officers of the corporation and board are the Co-Chairs, the Treasurer, and the Secretary. Due to the nature of the organization and corporation and the possible movement of people in leadership and with-in the membership groups, the Board of Directors has two co-chairpersons of equal status and responsibility for the purpose of continuity in the management of the corporation.

The Executive Board members are the two Co-Chairpersons, Treasurer, Secretary, and two members appointed by the Board.

Tenure for the Executive Board Members is two years from fiscal year start date (or next fiscal year start date if filled during fiscal year), after which time new Executive Board Members shall be nominated and elected by the Board at the annual Board meeting. There are no term limits for Executive Board Members; thus they can serve back-to-back terms if nominated and elected by the CDCA Board.

Initial Terms for Co-Chairs: The first terms (which end this year) for the co-chairs were established to prevent both changing at the same time and to provide for future staggered terms. The co-chairs terms have one established with an initial 24 month term and the other with a 36 month term (from then forward both offices will be 24 month terms).

A plan and schedule for the 2021 Board of Directors meeting and Webinars for members is being developed. When topics of Webinars and dates for the Board meeting and Webinars are confirmed, we will notify members.



# CALIFORNIA DEFENSE COMMUNITIES ALLIANCE

## VETERANS AND MILITARY SPOUSE LICENSURE LEGISLATION



CRAIG HODSON

Military spouses are a key element in California’s workforce as they can offer the full spectrum of professional experience to California’s labor market. It is essential that we advocate/support the ability

of military spouses to provide for their families. The delay in obtaining new licenses for each state a military spouse moves to significantly hampers opportunities for military spouses to work in their new state of residence. Notably, one of the leading factors service members cited for leaving military service was concern over transferring to a location where there is a lack of available career opportunities for spouses.

The National Defense Authorization Act (NDAA) requires the Department of Defense to consider a state’s military family readiness policies, including interstate licensure portability for military families in determining whether to process with any basing decisions or establishing major headquarters in the U.S.

If California does not improve our policies around veteran and military spouse licensure, the state may be vulnerable to additional base closures and be ineligible for future base missions and platforms. CDCA supports AB 225 (Gray/Gallagher/Patterson) Veterans and Military Spouse Licensure. Adding your support for AB 225 will greatly enhance licensure portability in professionally licensed fields such as medical, legal, engineering, education, accounting and others.

CDCA supports AB 410 (Fong) Nurse Licensure Compact authorization to issue a multistate license that would authorize the holder to practice as a registered nurse or a licensed vocational nurse. Also, CDCA supports AB 107 (Salas) Expansion of the requirement to issue 12 month temporary licenses to include licenses issued by the Veterinary Medical Board, the Dental Board of California, the Dental Hygiene Board of California, the California State Board of Pharmacy, the State Board of Barbering and Cosmetology, the Board of Psychology, the California Board of Occupational Therapy, the Physical Therapy Board of California, and the California Board of Accountancy.



### ASSOCIATION OF DEFENSE COMMUNITIES “ONE COMMUNITY” AGENDA

As a starting point and framework for discussions within your own organization, ADC’s “One Community” initiative offers topics for exploration and action within your own community.

From ADC:  
When communities and the military are working as one, we make a difference. While this is not a new idea, there is a tremendous opportunity to shift collaborative efforts to a new level of impact.



BATTLE OFF FRANCE BETWEEN THE U.S.S. KEARSARGE AND THE C.S.S. ALABAMA CAUGHT THE IMAGINATION OF THE FRENCH IN 1864. ÉDOUARD MANET (1832-83) (PUBLIC DOMAIN)

believes a “One Community” approach will foster a new level of military-community collaboration to tackle the major issues facing our nation and national defense.

- Respond and Recover from the COVID-19 Pandemic
- Invest in the People who Make our Military Work
- Invest in Infrastructure that Supports Missions and Families
- Promote Climate Resilience for Installations and Communities
- Address Racism & Inequality in the Communities our Military Calls Home

For more information, read ADC’s agenda at: <https://defensecommunities.org/wp-content/uploads/2021/01/One-Community-Agenda.pdf>

The Association of Defense Communities



# CALIFORNIA DEFENSE COMMUNITIES ALLIANCE

## ATTORNEY GENERAL OPINION AFFECTING CALIFORNIA MILITARY AND COUNTIES RELATIONSHIP



BY CRAIG HODSON

Does California law authorize a county to contract with the military for the county to provide certain governmental services—such as water, waste removal, sewage, landscaping, street maintenance, and emergency vehicle repair—in support of a military installation within the county?

Yes, in an opinion published by the attorney general of California. California law generally authorizes a county to contract with the military for the county to provide those kinds of services in support of a military installation within the county. From the opinion: "... California is home to more than two dozen military installations, on which there are varying levels of federal jurisdiction. We are presented with a general question, which would cover contracts with both federal and state

military agencies. In elaborating on the question, the requestor gives the example of a proposed contract for Ventura County to repair emergency vehicles at the United States Naval Base in Ventura. The requestor informs us that the then County Counsel advised that the County lacked authority to contract with the Navy to provide these services, but then negotiated a joint powers agreement for this purpose. The disagreement over the basis of the County's authority prompted the requestor to seek our opinion on a county's authority to contract to provide the asked-about services to military installations throughout the State. We conclude that a county has the general authority to enter into such a contract."

The entire opinion is available at: <https://oag.ca.gov/system/files/opinions/pdfs/19-401.pdf>



## RDP-21

### PROGRAMS & EVENTS BY BILL SIMMONS



**MOSAICS INDUSTRY DAY**  
MAY 18 & 19, 2021

This last year, RDP-21 was proud to support the More Situational Awareness for Industrial Control Systems (MOSAICS) Joint Capability Technology Demonstration (JCTD) through a Partnership Intermediary Agreement with NAVFAC EXWC in the conduct of their Virtual

Industry Day (EVENTS > MOSAICS INDUSTRY DAY | Rdp-21 (rdp21.org)). Last month, the second MOSAICS Industry Day occurred featuring two more days of innovative companies and DOD senior leaders as presenters. In support of this event, RDP-21 received reservations, coordinated with presenters, and hosted the website (EVENTS > MOSAICS INDUSTRY DAY SPRING 2021 | Rdp-21 (rdp21.org)). The conduct of these events provide unique opportunities for information sharing and partnership development.

As we move in to June, the conduct of a virtual Innovation Discovery Event (IDE) appears likely. Innovation Discovery Events are intended to increase the number of invention disclosures, improve existing disclosures, or identify commercial applications to existing inventions. Last year, RDP-21 supported the conduct of partnership-focused brainstorming conversations related to 5 different technologies from NAVSEA and NAVFAC EXWC.

This fall, the Coastal Trident – Advanced Naval Technology Exercise (CT-ANTX) Open House is scheduled for September 22 and 23rd. The conduct of the CT-ANTX program occurs in a manner that examines the capabilities of Navy and Joint-DOD; federal, state, and local government; and private sector organizations to address the operational and technical challenges presented by asymmetric threats in the port and maritime domain. The Open House serves as the culmination of the exercise activities planned for 2021.

Finally, it's not too early to be thinking about the potential to conduct Industry Day Forums in early 2022 with Augmented/Virtual Reality Technologies (AR/VR) already being considered as a topic of high interest. Interested? Just stay tuned . . .





# NSWC PHD

## VIRTUAL ALL HANDS CEREMONY CELEBRATES LEGACY OF NSWC PHD TECHNICAL DIRECTOR PAUL MANN

BY LATASHA BALL, NSWC PHD PUBLIC AFFAIRS

Naval Surface Warfare Center, Port Hueneme Division's (NSWC PHD) virtual All Hands Ceremony on Thursday, Jan. 21 celebrated Technical Director Paul Mann's rich history with the warfare center as he approaches a new journey as the Navy's chief engineer with the Department of Defense.

Dr. Brett Seidle, executive director, Naval Surface and Undersea Warfare Centers, expressed thanks and congratulations to Mann. He shared with the PHD workforce how their friendship evolved, including Mann's willingness to help and lead whenever needed.

"I mean it from the heart when I say I appreciate that sincerely," Seidle said. "The interactions we've had as peers first, and now, as you are supporting what we are trying to do as an enterprise. I'm also thankful for what you've done for Port Hueneme (Division) and the enterprise."

He summarized Mann's tasks as the technical director for PHD and the impact he made on its workforce and those who tackled projects with him for the enterprise.

"He's been an incredibly passionate fletcher for everything this team is trying to accomplish, and this team is front and center for a lot of issues the Navy faces," Seidle explained. "PHD employees do a great job; it takes a village, and all of you have done remarkable work since the time I've been able to view that upfront and personal. I know Paul has played a big part (in that), and that support is much appreciated."

NSWC PHD Capt. Andrew Hoffman also shared the lasting impression Mann made on him during their first

meeting at NSWC Dahlgren Division. He lauded Mann for his ability to effectively communicate his ideas with teammates in an admirable way, and which still rings true today, Hoffman said. "I watched and listened (at the time) as Paul operated on this high plane and set the bar for everybody else around him," Hoffman said. "He articulated hard concepts and problems and distilled them into actionable plans that people wanted to get behind. He lived for teamwork; collaboration is in his DNA. He was breaking down these intuitional barriers in the warfare centers, so needless to say, I walked away impressed."

Hoffman then wished Mann well in his new position, and said his new team and its work will benefit from the wisdom Mann will bring to the table.



*NSWC PHD Technical Director Paul Mann, left, accepts a commemorative plaque fashioned out of a skateboard deck from Commanding Officer Capt. Andrew Hoffman during Mann's last All Hands event on Thursday, Jan. 21. (U.S. Navy photo by Eric Parsons/Released).*

Mann ended the ceremony speaking about his time at PHD and reflecting on those he said have had an enormous impact on his career and life.

"Being the technical director at Port Hueneme requires a village of support, and I've had a lot of support over the years," Mann said.

Mann discussed Seidle's five principles he said are embedded in all things PHD does, including workforce growth, innovation, enterprise and

culture.

"Dr. Seidle, thank you; those ideals will serve Port Hueneme for decades," Mann said. "If we don't change those vectors, they will accommodate everything that we want, and Capt. Hoffman—together we set the conditions for that. There are some high expectations; the goal in talking to you (the PHD workforce) is to raise your expectations because the excellence in this command has nothing to do with me; it has everything to do with you."





# NSWC PHD

## FEDERAL EXECUTIVE BOARD RECOGNIZES TWO WARFARE CENTER EMPLOYEES FOR WORK WITH DIVERSITY AND INCLUSION

By Esmi Careaga, NSWC PHD Public Affairs

Two Naval Surface Warfare Center, Port Hueneme Division (NSWC PHD) employees received recognition from the Federal Executive Board during the command's year-end All Hands and Awards ceremony held virtually Dec. 9.

Administrative/Technical Specialist Ramona Armijo in the planning, policy and analysis branch of human resources, and Combat Systems Engineer Christopher Fava were each honored with the 2020 Public Service Award for Diversity and Inclusion from the Greater Los Angeles Federal Executive Board.

Armijo has garnered national levels of recognition for her work with multiple agencies representing ethnically and culturally diverse employees at PHD.

In 2020, Armijo helped raise the national profile for female employees at PHD with her two-woman awards team, which helped generate a record-setting 13 nominations.

U.S. Citizen and Immigration Services Western Regional Director Kathy Baran represented FEB virtually at the All Hands event, and emphasized the

impact Armijo and Fava's accomplishments have had on PHD's workforce.

"Armijo is an impassioned advocate for helping the workforce through improved diversity and inclusion strategies to extinguish social pain and continuously develop process improvement," Baran said. "Her efforts emphasize the importance of promoting fairness and decreasing social pain resulting from bias, micro-aggressions and discrimination."

Fava and his work were also recognized, as he is one of the founding members of NSWC PHD's Special Emphasis Program LGBTQ+ and Allies Group. He now helps foster respect, awareness and inclusion within the PHD workplace through the group.

"He takes pride as an agent of change while empowering all colleagues to be their best selves," Baran said. "His initiatives and tireless efforts toward raising the profile of diversity and inclusion,

particularly for LGBTQ+ employees, strengthen cohesion of the workforce through continuous education and extra-curricular programs."



*Cutline FED Executive Board Picture: From left on stage: NSWC PHD Executive Officer Lt. Cmdr. Travis Harlow, Commanding Officer Capt. Andrew Hoffman, (center on stage) and Technical Director Paul Mann (far right on stage) present the Diversity and Inclusion 2020 Public Service Award at the All Hands live to Administrative/Technical Specialist Ramona Armijo (center front) and Combat Systems Engineer Chris Fava (virtually) Wednesday, Dec. 9.*

*continued on page 8 DIVERSITY*





## IN-SERVICE ENGINEERS JOIN FORCES WITH MID-ATLANTIC REGIONAL MAINTENANCE CENTER AND NAVAL ACQUISITION DEVELOPMENT PROGRAM ON MODIFIED INTERNSHIP PROGRAM

BY LATASHA BALL, NSWC PHD PUBLIC AFFAIRS

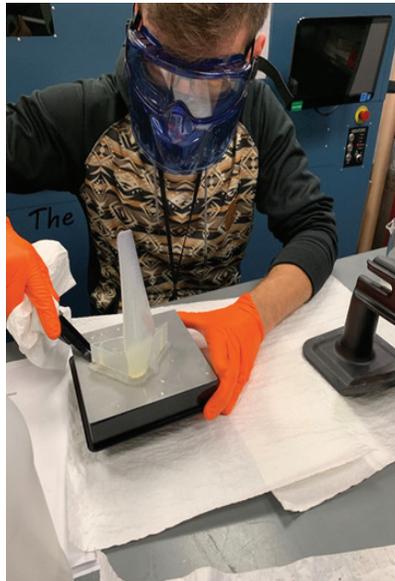
Naval Surface Warfare Center, Port Hueneme Division (NSWC PHD), a surface fleet In-Service Engineering Agent (ISEA), and Mid-Atlantic Regional Maintenance Center (MARMC) are collaborating on a virtual internship program, modified to meet COVID-19 regulations to continue developing the latest technology for the warfighter and strengthening the working relationship between MARMC and ISEA.

MARMC and NSWC PHD Naval Acquisition Development Program (NADP) mechanical engineers Adrian Vos and David Hamaty are participating as the first interns to support ISEA development through NAVSEA Warfare Center's ISEA of the Future Program (ISEAotF). The team plans to hire more in the future, according to Lt. Cmdr. Todd Coursey, NSWC PHD ISEAotF military lead.

While PHD is an ISEA, the command also has an ISEAotF program team dedicated to driving forward the Naval Sea Systems Command enterprise-wide program's initial vision to "adopt research, development and application of advanced technology to enable optimized lifecycle sustainment and iterative improvements of surface ships and combat and weapons systems deployed to the fleet."

Internship programs normally require interns to complete an internal and external rotation, but the participating organizations modified the internal rotation portion to be virtual, which allowed Vos and Hamaty to work with NSWC PHD and MARMC simultaneously.

"Normally outside of COVID-19, we would have to do in-person rotations, which might be a little more difficult, but due to COVID-19, we began these remote rotations, which has been amazing," Coursey explained. "We've been able to pick up two new MARMC NADP engineers who are starting, and they can come work with us."



*Cutline ISEA Intern Picture: Adrian Vos, mechanical engineer for the Navy's Mid-Atlantic Regional Maintenance Center (MARMC) and the Naval Acquisition Development Program (NADP), cleans and post-processes a 3D printer-made, model-scale propeller. Vos is one of two interns participating in NSWC PHD's In-Service Engineering Agent of the Future collaboration with MARMC and NADP's virtual internship program. (Photo provided by Adrian Vos)*

The mechanical engineers are working on two projects to help ISEAs. Hamaty is working on a lidar scanning project, while Vos is helping with a fiber optics sensing system project. How much time the interns spend in each internship varies depending on the project they are working on.

One of the goals of the collaboration is for the interns to fully understand the RMCs and ISEAs individual roles, and find ways to help the two groups work together to support the Navy and its goals.

"We need to have more collaboration in terms of rotations between the ISEA and RMC because we are both on the waterfront," Coursey explained. "RMCs focus on ship repair, and the ISEAs focus on combat systems, but we are still both on the waterfront, executing ship maintenance and modernization, so it only makes sense to understand each other's roles, frustrations and limitations. It also helps us to work better as a team and develop empathy."

Another benefit of the program is increased communication between the ISEA and RMCs. The interns from RMC can quickly communicate ideas happening at the RMC level to team members at the warfare center.

*continued on next page*



# NSWC PHD

*continued from previous page INTERNSHIP*

Jerry Bobo, career field manager for NSWC PHD and the NADP, said the virtual intern program is a perfect example of not working in a bubble and seeking out support, either inside or outside a command, which the Navy encourages.

“This ISEA and NADP program collaboration is a perfect example of us reaching out across the aisle to other people, commands and functions where we can use the best of our resources to solve a common problem,” Bobo said.

Bobo added the program is also an excellent opportunity for recent college graduates to hit the ground running, get hands-on experience in their field, apply their studies to real world applications and bring a more in-depth understanding to Navy projects.

“Having a system-level view on things is always a positive

thing, as opposed to being down in the weeds looking at a technical problem,” Bobo explained. “We want to train people not just to be a great technical expert but to understand other projects and how those projects may work with other commands to keep things going, especially in the digital age that we live in.”

Cutline ISEA Intern Picture: Adrian Wos, mechanical engineer for the Navy’s Mid-Atlantic Regional Maintenance Center (MARMC) and the Naval Acquisition Development Program (NADP), cleans and post-processes a 3D printer-made, model-scale propeller. Wos is one of two interns participating in NSWC PHD’s In-Service Engineering Agent of the Future collaboration with MARMC and NADP’s virtual internship program. (Photo provided by Adrian Wos)



*continued from page 6 DIVERSITY*

NSWC PHD Technical Director Paul Mann selected Fava to serve on the Magic of Inclusion panel at the Leadership in a Diverse Environment II Conference in Washington, D.C. in December 2018.

This year, Fava helped organize the command’s LGBT

Pride Month observance, and also attended the national Creating Change Conference in Dallas, Texas.

“Armijo and Fava clearly exemplify the best traditions of public service and reflect great credit upon themselves, their agency and the entire federal government,” Baran said. “They are truly deserving of this Greater Los Angeles Federal Executive Board’s Public Service Award.”

**Chief of Naval Operations Adm. Mike Gilday**  
 1,320 followers  
 19h • 🌐

Great to visit [#Sailors](#) in Port Hueneme & NAS Point Mugu today w/ MCPON Smith. Exciting to see what the [US Navy](#) is doing with the Ventura TechBridge as well as unmanned technology like FireScout.



# Naval Facilities Engineering and Expeditionary Warfare Center

## 1) Designation as a Science, Technology and Reinvention Laboratory (STRL):

- a. Final publication of the Federal Registry Notice on 12 March 2021. Significant milestone that our team has been working since authorized in the 2018 NDAA.
- b. This designation provides the warfare center additional authorities to recruit, retain and train our workforce
- c. We are already utilizing several STRL business and reinvestment authorities such as Naval Innovative Science and Engineering, and increased business authorities.

## 2) Science Technology Engineering and Math (STEM):

- a. Office of Naval Research (ONR) just sent our FY21 funding for the NAVFAC STEM program. EXWC will be initiating a new start project titled: "Pursuit of Education and Training for Energy Resilience." Classroom and hands-on demonstrations with two different microgrid systems to inspire and teach both students and Navy personnel about energy resilience and microgrid

implementation. Classroom training can be pre-recorded and/or streamed with live Q&A from instructor(s). Hands-on demonstrations will be outdoors at Port Hueneme at B-1100 with the modular microgrid system and at B-1360 MUSE Yard with the EXWC Microgrid Test Bed (MTB). Training technical difficulty level and topics can be adapted to the audience.

TARGET AUDIENCE: High school students, college students, and current workforce. ANTICIPATED NUMBER OF PARTICIPANTS: 50-100 per year

- b. NAVFACINST 5200.1: Mar 2021, the Chief signed the NAVFAC Semiannual Project List and Process creating a new initiative that aligns the research of CEC Officers with Naval technical priorities. The project list will leverage the expertise of the SFTAB and create new opportunities to partner with academia and industry. Planning a live virtual event with NAVALX in late April/early May

## 3) EXWC is Hiring - Office of Research and Technology Applications (ORTA):

- a. Recruitment announcement out on street and open to the public. Posted in USAjobs on 22 March and closes 5 April. We forwarded the announcement to the NSWC Corona ORTA, NSWC PHD ORTA, Crane ORTA, Pax River ORTA, the NPS ORTA, and the RDP-21

*Program Development Lead, Palmer Pinckney II  
NAVFAC EXWC, Public Affairs Officer  
1000 23rd Ave, Port Hueneme, CA 93041*



## NAVY LEAGUE

BOB QUINN

The Navy League is progressing with the Military and Youth Awards program in spite of the Covid problems. We have recognized the Seabee of the Year and will be recognizing the Sea Cadet and Navy League Cadet of the Year for the Mugu and Hueneme units later in May. The Cadet of the Year in the NJROTC unit at Hueneme High will be recognized this month also. The recognition ceremonies are with limited attendees but provide all the

normal elements for the award recipients.

Monthly meetings will resume in August at the Bard and will permit us to recognize the Coast Guardsman, Sailor and Marine of the Year in a larger more traditional manner.

We encourage everyone to join us in recognizing these outstanding junior service men/women and the truly exceptional youth in the local cadet programs. Learning of the accomplishments of these young folks will renew your faith in our youth and the future of our great country.



## NAVFAC EXWC



# NEW HIGH PERFORMANCE COMPUTING LAB

## New Science, Technology and Reinvention Laboratory Establishes Advanced High Performance Computing Lab

*Story by Sarah G. MacMillan, NAVFAC EXWC Deputy Public Affairs Officer and Chase Close, NAVFAC EXWC Public Affairs & Visual Information Specialist*

PORT HUENEME, Calif. (Feb. 5, 2021) — Naval Facilities Engineering Systems and Expeditionary Warfare Center (NAVFAC EXWC) Command Information Office (CIO) establishes a High Performance Computing Lab (HPCL) to upgrade outdated research, development, testing and evaluation (RDT&E) assets.

As a new Science and Technology Reinvention Laboratory (STRL), NAVFAC EXWC maintains a vast science and technology portfolio that seeks to address a broad array of computer and science research. The HPCL, spearheaded by NAVFAC EXWC Office of the Technical Director, is part of an STRL initiative to offer greater innovative technologies for NAVFAC EXWC researchers supporting the nation's sea and shore defense strategies.

“This new capability reestablishes NAVFAC EXWC’s commitment to the Navy and Marine Corps team,” said Mr. Kail Macias, NAVFAC EXWC Technical Director. The HPCL enhances agility; EXWC engineers, scientists, and technicians can now collaborate real-time with customers and stakeholders. Our mission is essential—EXWC is a premier warface center, providing RDT&E and in-service engineering to deliver solutions to the fleet. The HPCL is a direct result of our new STRL authorities enabling us to anticipate needs, provide innovative solutions, and accelerate the transfer of technology rapidly to the warfighter.”

Prior to HPCL installation, NAVFAC EXWC had extremely limited access to the Defense Research and Engineering Network (DREN). Now—with the expanded DREN capability—NAVFAC EXWC researchers can investigate innovative ideas by exploiting the new features, and high performing systems. The new DREN-connected RDT&E HPCL also improves NAVFAC EXWC’s cybersecurity posture, by partnering with Naval Information Warfare Center Pacific to provide a properly accredited environment that is easier to maintain in lifecycle as compared to the legacy standalone systems. Access to the DREN offers NAVFAC EXWC researchers access to collaborate online with access to supercomputers, a national research network, and computational science experts that offer defense laboratories and test centers a safe, collaborative space to conduct RDT&E.

“The creation of the HPCL provides NAVFAC EXWC with the necessary computing needs to expand our modeling and simulation capability,” said

*continued on next page*

# NAVFAC EXWC



(Pictured left to right) Captain Michael Saum, NAVFAC EXWC Commanding Officer, Mr. Jeff Hussey, (acting) NAVFAC EXWC Command Information Officer, Mr. Christian Bowers, NAVFAC EXWC HPCL Manager, and Mr. Kail Macias, NAVFAC EXWC Technical Director, pose for a photo inside the newly commissioned computer laboratory.

Jeffrey Hussey, NAVFAC EXWC Acting Command Information Officer. “These capabilities will allow the command to provide the warfighter with vital information to ensure that mission needs are met.”

NAVFAC EXWC’s Capital Improvements Geographic Information System (CI GIS) team began utilizing the HPCL to collect point cloud and photogrammetry data to create virtual models of naval installations. Meshing data procured from the HPCL into a virtual model on the original computers took upwards of 72 hours. The HPCL allows the CI GIS—and other NAVFAC EXWC researchers—the ability to collect and mesh data within the same day to determine if additional data is required for a complete virtual model.

“Returning HPCL compiled data can be a critical tool in a time of emergency,” said Christian Bowers, NAVFAC EXWC HPCL Manager. “For example, in the event of a national disaster, this technology will

enable us to identify and access damage to utilities and infrastructure, and dispatch repair teams in a timely manner.”

To ensure the HPCL operates at optimal capability, the lab manager will collaborate with CIO and the HPCL stakeholders to evaluate upgrade requirements for the HPCL in real-time to meet evolving mission requirements. This includes updates to the advanced modeling software suite, exploration of machine learning and artificial intelligence tools, and

acquisition of additional computational capability. As technology evolves, refreshing the HPCL will happen more frequently and may eventually involve a leasing model to reduce lifecycle costs.



For more information on NAVFAC EXWC’s High Performance Computing Lab, contact Christian Bowers via email: [christian.f.bowers@navy.mil](mailto:christian.f.bowers@navy.mil)

# AIR NATIONAL GUARD 146TH AIRLIFT WING

## PARTNERSHIPS FORGED IN FIRE BY TECH. SGT. NIEKO CARZIS, 146TH AIRLIFT WING

SAN BERNARDINO AIR TANKER BASE, CALIF. --

In the dry heat of the high desert, the California and Nevada Air National Guard, the U.S. Forest Service, CAL FIRE, and multiple other fire-fighting agencies across the United States performed their annual certification training for the aerial fire-fighting mission with MAFFS (Modular Airborne Fire Fighting System), May 4-7, 2021.

The success of this training is built on the trusted partnerships between the fire-fighting agencies, having forged their tactical expertise suppressing wildfires since the early 1970's.

According to Kim Christensen, U.S. Forest Service Deputy Director for Fire Operations, this year marks the 48th anniversary of the MAFFS partnership between the Air National Guard and the U.S. Forest Service; a partnership she describes fondly for the members' commitment and professionalism on both sides.

Christensen also says this year's certification and training is starting just in time.

"Fire season has started much earlier than in previous years. We are simultaneously conducting training and certification while supplementing our fleet to fight active fires burning in California right now."

"While one tanker fills up to run a practice sortie, the other

tanker is tasked to put out the real fires."

Pilots and aircrew from the 115th Airlift Squadron (115 AS), Port Hueneme, California, and the 152nd Airlift Wing, Reno, Nevada, are participated in the first round of certification training held by the U.S. Forest Service this week.

For the 115 AS, it's another successful year in the books in a long history of aerial fire-fighting for the squadron.

The 146th Airlift Wing's 115 AS has performed an integral part of the MAFFS mission since its inception. With a

remarkable history serving California, the flying squadron's legacy dates back to the early 1900's when the squadron performed its first missions as an observation group at the Santa Monica airfield in California.

Protecting California has always been a part of the 115 AS legacy, and it continues to grow those traditions with the new pilots attending this year's training with the U.S. Forest Service.

U.S. Air National Guard Capt. Curtis Byrd, a MAFFS pilot from the 115 AS, says the

partnership with the U.S. Forest Service is invaluable, citing the organization's rich history in aerial fire-fighting as the backbone to the partnership's success.

"We have such a great relationship with the U.S. Forest

*continued on next page*



*MAFFS (Modular Airborne Fire Fighting System) ground crew members prepare a U.S. Air National Guard MAFFS equipped C-130J Hercules Aircraft from the 146th Airlift Wing for takeoff at San Bernardino Air Tanker Base, California, during MAFFS (Modular Airborne Fire Fighting System) training, May 6, 2021. Utilizing the C-130J aircraft equipped with the MAFFS unit, Air National Guard aircrew from 146th Airlift Wing work together to accomplish their aerial firefighting certification training alongside the U.S. Forest Service and other wildfire prevention agencies. (U.S. Air National Guard photo by Senior Airman Michelle Ulber)*

# AIR NATIONAL GUARD 146TH AIRLIFT WING

*continued from previous page*



## PARTNERS FORGED IN FIRE

Service, and this training and certification is so important to continuing our commitment to protecting lives and property against the devastating effects from wildfires.”

Byrd added, “As aerial fire-fighting partners, we have overcome many obstacles and hardships together in the past. We’re so appreciative of the U.S. Forest Service’s professionalism in their ability to provide the quality and safety of our training to help ensure we are best prepared for the next major wildfire.”

MAFFS, which can drop up to 3,000 gallons of fire retardant in less than 10 seconds across a quarter-mile line, is based on a system that slides into the back of the a C-130 military aircraft, and retardant is released through a nozzle on the rear left side. MAFFS aircraft can be activated to supplement the U.S. Forest Service and the civilian air tanker program to slow or stop the spread of wildland fires across the nation. The Department of Defense can provide

up to eight MAFFS equipped aircraft as required.

The 153rd Airlift Wing from Cheyenne, Wyoming and the 302nd Airlift Wing, Peterson Air Force Base, Colorado are also part of the AEG MAFFS program, and will be participating in certification training the following week in Colorado.

“Certification training allows these units to refine their processes, and helps cement our working relationships with NIFC (National Interagency Fire Center) and other agencies. It is critical training that helps ensure the entire team is postured and prepared to deliver critical fire-fighting capability,” said U.S. Air Force Lt. Gen. Kirk Pierce, Commander, Air Forces Northern Command. “Summer 2021 is projected to be a busy wildland fire season, so the training and command relationships are critical to our mission to protect life and property.”



## 1ST AIR FORCE VISITS AERIAL FIRE-FIGHTING TRAINING IN SOUTHERN CALIFORNIA



SAN BERNARDINO, CA, UNITED STATES  
05.05.2021 Photo by Senior Airman Michelle Ulber  
146 Airlift Wing, Public Affairs, California Air National Guard

U.S. Air Force Chief Master Sgt. Mikael Sundin, Command Chief Master Sgt. 1st Air Force, tours a C130-E Hercules aircraft from the 152nd Airlift Wing during MAFFS

(Modular Airborne Fire Fighting System) training at the San Bernardino Air Tanker Base, California. May 5, 2021. Utilizing C-130 aircraft equipped with the MAFFS unit, Air National Guard aircrew from the 152nd Airlift Wing and the 146th Airlift Wing work together to accomplish their aerial firefighting certification training alongside the U.S. Forest Service and other wildfire prevention agencies.



(U.S. Air National Guard photo by Senior Airman Michelle Ulber).



# THE PORT OF HUENEME



The Port  
OF HUENEME



## Coastal Trident

Coastal Trident (NSWC PHD and Matter Labs' comprehensive exercise training program) kicked off its 15th year with its first modules on May 10. This year is slated to be the largest Coastal Trident in its history, with 55 modules and over 200 participating agencies. The final planning meeting was completed on May 5. Coastal Trident is conducted to advance the state of the art in countering threats to port and maritime security and sustaining the global operations of naval force.



## Brusco Tugboat Saves the Day

In April, Brusco Tugs went into action from the Port of Hueneme to assist M/V President Eisenhower which was headed from Los Angeles to San Francisco when it suffered an engine room fire that disabled command of the vessel. Brusco tug Teresa Brusco and crew pushed the vessel away from shore while other tugs and salvage companies came to assist. Thank you for their quick action and we are glad that everyone is currently safe.



## Commitment to Community Continues

The Port of Hueneme held its 49th food distribution event on May 1 at a field in Oxnard. So far, over 1 million pounds of food have been distributed. Many thanks to our many Port customers, partners, volunteers, and other community members who have helped to make these important community events happen.

## World Trade Week Event a Success

BECKY HAYCOX

On May 4, the Port held a virtual World Trade Week event, with its collaborating organizations US Commercial Service, District Export Council, Economic Development Collaborative Ventura County, and California Small Business Development Center - Los Angeles Network. The event included an informative presentation by Marianne Rowden (former President & CEO, American Association of Importers and Exporters) on the Transition to Globalization 2.0, as well as a presentation on Research on Careers in International Trade by EDC-VC's Ray Bowden and Xopolis LLC's founder Lokesh Dani.

Watch the full event here: <https://youtu.be/6tlHFW3bUrw>

## Port Harbor Dredging Complete

The USAOE harbor dredging project is due to be completed by the end of May - the main channel turning basin and first 1200 feet of the Port's southern wharf will be at 40 feet.

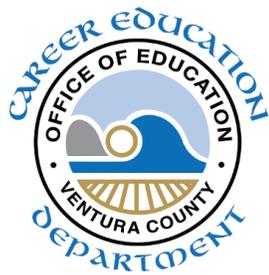
## Brusco Tugboat Saves the Day

We appreciate everyone who has helped with our 2030 Strategic Plan - from the survey process to the Community and Infrastructure Workshops that helped us chart our course for the next decade and beyond.

The presentations and workshops can be accessed here: <https://www.portofhueneme.org/2030-strategic-plan/>



# VENTURA COUNTY OFFICE OF EDUCATION



RDP NEWSLETTER  
SUBMISSION, PREPARED  
BY LAURIE ARNOLD,  
EXECUTIVE DIRECTOR,  
CAREER EDUCATION

May 2021 The Ventura County  
Office of Education Career  
Education Department continues  
to support career exploration

in STEM fields. In conjunction with NAVFAC EXWC, STEM Program Manager Carina Reeves; NAWCWD Student Employment and STEM Outreach Coordinator, Angel Zamarron; and NSWC PHE, STEM Coordinator Dr. Ramon Flores, VCOE hosted two webinars this spring designed to generate interest in FIRST Robotics teams. Webinar participants were invited to apply for Navy grant funding and mentors for FIRST Robotics teams. As a result of this collaborative effort, 37 teams applied for this funding and mentors. Our Navy partners are reviewing grant applications at this time and preparing for awards and arranging for team mentors. VCOE is grateful for the collaboration among FIRST Robotics Regional Director Velma Lomax and our Navy partners to be able to offer this opportunity to the students of Ventura County.

VCOE's annual Hackathon By The Sea was a huge success,

held as a remote event on Friday, May 21 and Saturday, May 22. Over twenty-five Navy personnel, both civilians and enlisted, participated by serving as speakers, mentors, and judges and by providing a variety of workshops on topics such as cybersecurity, artificial intelligence, sustainability, website development, writing apps for mobile devices, and obtaining internships at NBVC. This year the Hackathon is sponsored by NAVFAC EXWC.

VCOE's Career Education Department also is supporting NAVFAC EXWC's annual SeaGlide Competition. SeaGlide is a small scale autonomous underwater glider which moves by changing its buoyancy, taking in or expelling water. A teacher training is scheduled for late July to prepare teachers for the design and build process and student competition event. The SeaGlide build and competition is for high school students. The SeaGlide Competition is scheduled for March 17-18, 2022 at the Port of Hueneme in conjunction with the VCOE Science Fair.

VCOE is committed to cultivating a local STEM workforce creating a talent pipeline with ties to the community who are more likely to remain in careers locally. We strive to support the work that has been conducted at our local navy bases for nearly 80 years.



## RDP-21

### RDP-21 WEBSITE

RDP-21 started a photo library of our General Meetings, Strategic Committee meetings and Board meetings; see here: <http://rdp21.org/news-and-resources-2/>

RDP-21 is now documenting events in support of our new Partnership Intermediary Agreements (PIAs) and the sponsorship of events per our mission; here are the pics from the Governor's Military Council Reception: <http://rdp21.org/governors-military-council/>

See EVENTS tab on web page: [www.rdp21.org](http://www.rdp21.org)

If you want to get your updates out to the RDP-21 membership base, please send information to [admin@rdp21.org](mailto:admin@rdp21.org) by **AUGUST 15, 2021** for our next newsletter early.

