

NAVFAC turns 178

University of Hawaii Wins 1st

FIRST Robotics Season Achievements

ANTICIPATE – INNOVATE – ACCELERATE





HAPPY 178 **BIRTHDAY!**

Happy 178th Birthday to our NAVFAC Enterprise! Did you know NAVFAC is the oldest of the Navy's system commands? NAVFAC's Birthday-on August 31, 1842-marks the establishment of the Bureau of Navy Yards and Docks, forerunner to Naval Facilities Engineering Command. Our NAVFAC Officers comprise the Navy's Civil Engineers Corps, formed 25 years after NAVFAC's first birthday. Fast forward to 1966, the Department of the Navy reorganized the Bureau of Navy Yards and Docks to become what we know today as the Naval Facilities Engineering Command.

To commemorate the event, Admiral Korka reminds every NAVFAC teammate that we have an imperative responsibility to shape our workforce for the next 178 years.

Team NAVFAC EXWC; let us go into the next fiscal year one year older and immeasurably stronger!

How old is NAVFAC? Let us show you...

178 Years 2,136 Months 9,287 Weeks & 5 Days 93,620,160 Minutes

65,014 Days 1,560,336 Hours

5,617,209,600 Seconds

ENABLE WARFIGHTER LETHALITY

MAXIMIZE NAVAL SHORE READINESS

STRENGTHEN SYSCOM TEAM



Women's Equality Day 2020

Interested in viewing Moving Beyond the Binary? View here: https://web.microsoftstream.com/video/1dac0b64-db75-4710-a084-69f95fbf5d38

EXWC EDGE eMagazine is sending a BIG shout-out to Justine Ang Fonte, M.Ed. MPH for being NAVFAC EXWC's Women's Equality Day 2020 guest speaker! On Wednesday, August 26, 2020, NAVFAC EXWC joined enterprises across the DOD to observe Women's Equality Day in the United States.

Women's Equality Day commemorates the passage of the 19th Amendment to the U.S. Constitution, granting the right to

vote to women. Fast forward to 1971, U.S. Congress designated August 26 as Women's Equality Day.

To commemorate the occasion, NAVFAC EXWC's Diversity Committee took a different approach from past Women's Equality Day programming-in accordance with this year's observation, nationally recognized sexuality educator and speaker Justine Ang Fonte, M.Ed., MPH virtually conducted an interactive workshop focusing



CHIPPING

AWAY

at uality Inequality

on gender as a social construct, and interrogated the real impacts it has on our health and well-being. Justine's presentation discussed ways that media and human behaviors reinforce gender norms that hold us back from achieving gender parity.

Thank you to all who joined this year's virtual festivities. Justine's Moving Beyond the Binary presentation was not only informative, but thought provoking!



EXWC in the NEWS

Have you spotted EXWC in the NEWS lately? Check out these latest Top EXWC News Headlines from the month of August!

Joint Capability Technology Demonstration at JEB Little Creek - Fort Story Successfully Tests Littoral Logistics

Story by Daniel J. McCambridge, Sarah G. MacMillan, Gerald P. Tighe, Lou Bernstien, Thomas R. Smith

JOINT EXPEDITIONARY BASE LITTLE CREEK, Va. - NAVFAC EXWC, CENTCOM and TRANSCOM successfully demonstrated a joint capability vertical take-off and landing (VTOL) technology to refuel from a forward-deployed barge as part of the Resilient Expeditionary Agile Littoral Logistics (REALL) Joint Capability Technology Demonstration (JCTD) in July. Funded by the OSD Research & Engineering, the REALL JCTD addresses combatant command and joint warfighting gaps through prototyping and demonstration of innovative and game-changing technologies. The scope of the REALL JCTD at Joint Expeditionary Base Little Creek-Fort Story included an evaluation of the concept of conducting VTOL operations using an MH-60M Blackhawk Helicopter on an Improved Navy Lighterage System Roll-on/Roll-off Discharge Facility. Moving forward, the REALL JCTD will provide capabilities addressing specific requirements identified in the National Defense Strategy and integrated priority lists of several combatant commands.

Read more here:

https://www.doncio.navy.mil/CHIPS/ArticleDetails.aspx?ID=13750



The Navy Bridge Inspection Program virtually assesses the Friendship Bridge in South Tarawa within the Republic of Kiribati.

The Republic of Kiribati Friendship Bridge **Undergoes Virtual Assessment**

Story by Sarah G. MacMillan, NAVFAC EXWC Deputy Public Affairs Officer

SOUTH TARAWA, Republic of Kiribati – NAVFAC EXWC partnered with 501(c)(3)nonprofit History Flight to conduct a virtual assessment of the Friendship Bridge, located in South Tarawa within the Republic of Kiribati. The Friendship Bridge connects two remote islands within

the Republic of Kiribati. Due to travel restrictions from COVID-19, an on-site inspection of the deteriorating bridge was not feasible. Instead, the Navy Bridge Inspection Program conducted a full in-depth assessment of the bridge, using onsite photos taken by members of History Flight.



Read more here: https://www.dvidshub.net/news/375953/republic-kiribati-friendship-bridge-undergoes-virtual-assessment

For now, the virtual assessment provides professional guidance on whether the substructure of the bridge can be reused for future construction after the Friendship Bridge is dismantled, and outlines the risks associated with the bridge's current state.

UH Mānoa Wins 1st









University of Hawaii at Mānoa Wins First U.S. DOE Marine Energy Collegiate Competition; Receives Allocated Project Funds from NAVFAC EXWC

Story by Sarah G. MacMillan, NAVFAC EXWC Deputy Public Affairs Officer

HONOLULU, Hawaii – The University of Hawaii at Mānoa has received allocated project funds and resources from Naval Facilities (NAVFAC) Engineering and Expeditionary Warfare Center (EXWC) to further develop their wave energy conversion (WEC) technology as the university wins the first United States Department of Energy (U.S. DOE) Marine Energy Collegiate Competition (MECC) for 2020.

Spearheaded by the Office of Energy Efficiency and Renewable Energy and managed by the National Renewable Energy Laboratory on behalf of the U.S. DOE's Water and Power Technologies Office, the MECC probed multidisciplinary teams comprised of undergraduate and graduate students to develop adaptable solutions to support "blue economy".

Blue economy is defined as the sustainable use of ocean resources for economic growth, improved livelihoods and jobs while preserving the heath of each ocean. MECC teams were asked to design, optimize and explore new opportunities that support blue economy, while furthering the marine energy industry.

University of Hawaii at Mānoa's team–named the Halona WEC Team–is comprised of three graduate students, one undergraduate student, and six faculty advisors. Their vision by competing in the MECC was to provide industry solutions and standards for smallscale wave energy conversion applications within blue economy. After intense deliberation, the Halona WEC Team focused on creating a self-charging mobile WEC powered platform that can charge observation platforms and autonomous underwater vehicles.

"The [WEC powered platform] is based on my PhD Dissertation work around WEC-based autonomous underwater vehicle docking stations," said Nic Ulm, Halona WEC Team member and PhD student at the University of Hawaii at Mānoa. "Seeing that other [University of Hawaii at Mānoa] students had an interest in participating in the MECC encouraged faculty and students to put together a team."

Prior to the WEC powered platform's conception, the Halona WEC Team interviewed



various government agency oceanographers (including professionals at NAVFAC EXWC), offshore industry personnel and marine industry professionals to assess their thoughts on emerging concepts relating to blue economy. Based on their research, the Halona WEC Team developed a business plan and assessed their marketplace applicability and potential integration as part of the MECC project guidelines.

"It has been fantastic to work on a proof-of-concept prototype," said Ulm. "As a PhD student, you are often isolated in your research by the nature of trying to be an expert in a specific area. It has been extremely rewarding to work with other students who have come from various

"A special thank you to Nate Sinclair, NAVFAC EXWC WETS Program Manager for supporting NAVFAC EXWC PAO by providing project and program insights to help educate others."

professional backgrounds. Our team's interdisciplinary diversity offered insights we may not have otherwise considered while working so closely on our MECC prototype."

After countless months of work, the University of Hawaii at Mānoa placed first as an overall winner of the MECC, in addition to winning the individual category of best pitch.

"The University of Hawaii at Mānoa's MECC victory is another feather in our cap as we push for greater involvement in the advancement of wave energy for the U.S. Navy, the U.S., and globally," said Patrick Cross, PhD; Program Manager of Marine Energy at Hawaii Natural Energy Institute and faculty at the University of Hawaii at Mānoa.



Marine Energy Collegiate Competition **U.S. DEPARTMENT OF ENERGY**

BLUE ECONOMY

Defined as, "the sustainable use of ocean resources for economic growth, improved livelihoods and jobs while preserving the heath of each ocean."



The wave energy conversion device known as the "Lifesaver" is moored at Marine Corps Base Hawaii's wave energy test site.

"This victory provides us with a very gratifying recognition of our efforts in this area, as we work to expand our research in wave energy generally at University of Hawaii at Mānoa by involving more faculty and students-obviously the students are the critical core of that community."

The University of Hawaii at Mānoa has a long-standing relationship with the U.S. Navy, and uses the Wave Energy Test Site (WETS) off Oahu at Marine Corps Base Hawaii-managed by NAVFAC EXWC-as a primary resource to test marine energy devices. Funding for WETS is designated for marine energy systems to power both offshore components and onshore microgrids. As blue economy research and its importance expands, NAVFAC EXWC and other Department of Defense enterprises are demanding further and improved analysis of the blue economy.

"[Our] emphasis is likely to be focused on both grid-connected and blue economy projects moving forward, and we are hopeful that the recognition achieved through the MECC win will open doors to new funding opportunities with the U.S. DOE, U.S. Navy, and others" said Cross.



Aerial view of the wave energy test site off Marine Corps Base Hawaii, Oahu

Cross added that in recent years, the University of Hawaii at Mānoa has used portions of their U.S. Navy funding for WETS to support graduate students who are studying relevant research of wave energy.

"Facilitating [students] studies, while also integrating them into the overall WETS effort has been quite rewarding," said Cross. "It's great to see one of those students-Nic Ulm-take such an aggressive leadership role in all aspects of his work, not only to advance his PhD research objectives, but to make substantial and meaninaful advancements of interest to the U.S. Navy, specifically NAVFAC sponsors."

Due to the success of the Halona Navy, and by extension for the WEC Team and their WEC powered platform, (in addition to testing their prototype at WETS) NAVFAC EXWC has allocated funding for Ulm to continue his research through WETS.

"The promising work of Nic Ulm–who led the MECC team to its recent victory-will receive his graduate assistantship scholarship through (allocated) NAVFAC funding," said Nate Sinclair, NAVFAC EXWC WETS Program Manager. "In Nic's assistantship role, he will continue to focus his PhD research with the University of Hawaii at Mānoa to achieve WETS objectives for the U.S.

U.S. DOE, which funds many of the projects that gets tested at WETS."

The Halona WEC Team and their wave energy conversion technology is typical of technologies currently being tested at WETS.



EXWC EDGE

Personnel Highlights



NAVFAC EXWC's Commanding Officer Captain Michael Saum bumps elbows with Commander Charles Kubic after receiving the Meritorious Service Medal.

Fair Winds and Following Seas

Commander Kubic is Moving onto Greener Pastures!

After 21 years of honorable service, NAVFAC EXWC's Operation's Officer–Commander Charles B. Kubic (call sign "Tigger")–has officially retired from the U.S. Navy. As Commander Kubic signed off from his final NAVFAC EXWC duties, he was formally recognized by Captain Saum, and received the Meritorious Service Medal for his dedication and service to the U.S. Navy.

NAVFAC EXWC congratulates Commander Kubic on his retirement and wishes him and his family the very best on their next chapter.

It's Time for Workforce **Development Training**

Team EXWC, workforce development has several awesome upcoming available trainings for the month of September! Looking to register for a course? Visit the Total Force Training website: https://totalforcetraining.navfac.navy.mil. Have a question? Jill Stein (BD17) has you covered: jill.stein@navy.mil

Cultural Competence and Awareness

Virtual Entire Workforce September 8 & 10 & 16, 2020 Virtual

Influencing Skills

Virtual Entire Workforce September 10-11, 2020

Fostering Accountability,

Adaptability and Resilience Virtual Supervisors & Managers September 10-11, 2020

Workplace Sensitivity

Virtual Entire Workforce September 14 & 29, 2020

Federal Financial Overview Entire Workforce September 14-16, 2020

Virtual Entire Workforce

MTBI Workshop Virtual Entire Workforce

Speaking to Get **Things Done** Virtual **Entire Workforce** September 22-23, 2020



Fundamentals of **Project Management**

September 16-17, 2020

September 21, 2020

Developing a **Resilient Mindset** Virtual

Entire Workforce September 22-23, 2020

Working on Virtual Teams Virtual **Entire Workforce** September 25, 2020

The World of STEM



STEM Resources and Virtual Events:

SciFest All Access

Calling all parents, teachers and administrators! Join the Naval Facilities Engineering Command (NAVFAC) for SciFest All Access, a one-of-akind virtual field trip opportunity brought to you by the USA Science and Engineering Festival. SciFest All Access will be available online September 16-23 and there is something for everyone – K-12 students, families, educators, and college students. There is NO COST to attend the Virtual STEM Expo! Register today at the following URL:

https://usasciencefestival.org/scifest-all-access-registration/

Do you know a student interested in pursuing STEM careers? Are you interested in learning more about what STEM has to offer? The DOD STEM general brochure is available in a digital version for dissemination to all interested DOD-affiliated and public networks, including students, parents, educators, and mentors!

View the brochure here:

https://dodstem.us/sites/default/files/DoDSTEM_General_ Final_Web_06022020.pdf

Just a friendly reminder that virtual DOD STEM resources are available for students, parents, educators, mentors, during COVID-19. DOD STEM understands the significant impact COVID-19 has on families and schools. NAVFAC EXWC encourages use of these resources provided by DOD components and DSEC partners.

Read more here: https://dodstem.us/

NAVFAC EXWC STEM JOINS DOD COMMUNITY BY CELEBRATING FIRST ROBOTICS 2019-2020 SEASON ACHIEVEMENTS

DOD STEM

For Inspiration and Recognition of Science and Technology (FIRST®), a strategic partner of the Department of Defense (DOD) Science, Technology, Engineering, and Mathematics (STEM) under the Defense **STEM Education Consortium** (DSEC) for inspiring future STEM talent, hosted the FIRST Virtual Showcase on May 2, 2020. This event served as a gathering of the FIRST community to recognize the achievements of the 77,400 FIRST robotics teams in over 110 countries, comprised of more than 645,000 students, as well as their parents, coaches, mentors, and volunteers, including DOD STEM professionals, around the world during the FIRST RISE powered by Star Wars: Force for Change. This virtual showcase is a result of COVID-19's impact on the two annual FIRST world championship competitions, which were scheduled to have taken place in-person in Detroit, Michigan, and Houston, Texas.

The FIRST Virtual Showcase featured awards to participating students, teams, mentors, and volunteers for their efforts during the season. Out of over 3,800 FIRST **Robotics Competition (FRC)** teams at district and regional competitions worldwide this season, 15 DOD-sponsored FRC teams received the Chairman's Award, which recognizes teams that best represent a model for other teams to emulate and embody the purpose and goals of FIRST.

The DOD is proud of all teams, and wishes all students continued success in their STEM education. The Department looks forward to hearing about their amazing achievements in the FIRST program!



What's up with Acquisitions?

Have you heard?

The Control System Test Bed (CSTB) Technical Evaluation Board (TEB) convened onsite (while socially distant), where they successfully completed draft Technical Evaluation Report in only 5 DAYS! Bravo Zulu ACQ73 and ACQ1 for keeping this mission-critical procurement on target for this upcoming fiscal year.

ACQ72 provided key support during a virtual pre-proposal conference held in August via MS Teams for the \$600M **Global Sustainment Solicitation** for Anti-Terrorism Force Protection (ATFP). EXWC's ACQ team hosted 20 firms and 83 participants.

ACQ71 and ACQ74 successfully reorganized separation of public works and oceans for increased support.



Pictured from Left to Right: NAVFAC EXWC employees Crystal Brooks, Gabriel Pina, Nhung Bui, Nicole Bell, Carol Contreras, and Megan Ault

NAVFAC EXWC has a new Chief of Contracting Office and **Acquisitions Department Head!**

Jill Thomas joined EXWC a few months ago and shared with EXWC EDGE, "...I have not had a chance to meet most of you in person yet, but look forward to it soon. I am proud of the work EXWC has accomplished during one of the most challenging times. The future has many opportunities as we pivot to FY21. We are expanding our acquisition toolkit as DoD's newest Science and Technology Reinvention Laboratory (STRL). We work nearly every type of acquisition at EXWC as an STRL and NAVFAC's only warfare center. EXWC acquisition is a team sport. It requires pulling together across the command with a shared focus to the finish. Together we are building one of the best places to work. Thank you for your hard work as we partner closer at EXWC to bring time and cost savings to the Navy and ultimately the taxpayer. I'm excited about the future."

NAVFAC EXWC wishes Jill a warm welcome as she works with acquisitions to manage EXWC's vast portfolio of contracts and services.



Steve Canale

Business and Industry Specialist Coming from Seabeck, WA

Michelle Rodrigo **Management Specialist** Coming from Oxnard, CA

David Oehldrich

Management and Program Analyst Coming from Capadoichino, Napoli Italy

Duchuy Nguyentan Management and **Program Analyst** Coming from Okinawa, Japan

Angela Paolucci **Physical Scientist** Coming from Columbus OH

Roy Letcher Engineering Technician Coming from West Hills, CA

Margaux Ugalino Office Automation Clerk Coming from Oxnard, CA

Jesus Silva Engineering Technician Coming from El Paso, TX Management Analyst

Martin Leak Safety Engineer Coming from Temple, GA

Amos Horst Accountant Coming from New Cumberland, PA

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Jeanne Domenech Supervisory Financial Coming from Camp Hill, PA Katalin Adams **Financial Management Analyst** Coming from Olympia, WA

Joaquin Vierra Program Analyst Coming from Oxnard, CA

Nicolette Andrzejczyk **Physical Scientist** Coming from Riverside, CA

Christian Tyson **IT** Specialist Coming from Chula Vista, CA

William Crispin Program Manager Coming from Port Hueneme, CA

DONCEAP

Sometimes we could use an extra hand, and DONCEAP is here to help. As a reminder, no matter the hour or day, DON employees can reach out to 1-844-DON-CEAP for resources and support.

Magellan Health

Magellan Health has opened a free 24-hour crisis hotline for consultation and referrals to local community resources. Call 1-800-327-7451 to access the toll-free number for confidential consultation services.

Civilian Personnel

NAVFAC

Need-to-Know

The U.S. Government will begin deferring withholding payroll taxes for federal employees to fulfill President Trump's memorandum issued in August. If you have any questions regarding your tax withholdings, please contact your personal tax preparer or financial representative for guidance on how this matter affects your finances.

Tutor.com/military

Are you looking for a tutor while you and your family navigate working from home and unpredictable school schedules? All Active Duty, National Guard, Reserve, Wounded Warrior service members, DOD civilian personnel and their dependent children and spouses are eligible to access Tutor.com/military at no cost. Tutor. com expanded eligibility will continue through June 30, 2021.

Hey parents!

Is common core math stressing you out? If the answer is yes, you are not alone. Refresh your skills with this 30-minute video from Tutor.com:

https://www.youtube.com/watch?v=-tlqMMnRIZA&feature=youtu.be

Would you like to contribute to the NEW EXWC EDGE eMagazine?

The EXWC EDGE eMagazine is always looking for fresh, applicable and compelling new content for our monthly publication! Volume #0002 will launch on October 5, 2020. Please send your contributions before September 22, 2020 for inclusion.

> CONTACT: navfacexwcpao@navy.mil,

In advance, THANK YOU for contributing!



EXWC EDGE eMagazine is a communication product created by: NAVFAC EXWC Public Affairs Operation

EXWC EDGG eMagazine



VISION

Accelerate innovation to enable fleet lethality at sea and ashore

MISSION

Provide research, development, testing and evaluation and in-service engineering to deliver specialized facility and expeditionary solutions to the warfighter

GUIDING PRINCIPLES

Integrity: We serve our warfighters and our nation with Honor, Courage, and Commitment

Accountability:

We operate safely, ethically and urgently, driven by our supported commanders' priorities

Initiative:

We anticipate and act with agility through teamwork to achieve high velocity outcomes

Toughness:

We promote bold, credible leadership to overcome challenges in all phases of operations