



US Army Corps
of Engineers
Honolulu District

®



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BUILDING STRONG®

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WHAT'S INSIDE



Evaluating STEM at the 2015 Elementary Science Olympiad
As part of the District's commitment to STEM education, Civil Engineer Jennifer Eugenio (second from left) and Project Manager Lise Ditzel-Ma (fourth from left) volunteered on April 11 to serve as judges for competing students at the 2015 Elementary Science Olympiad held at Mililani High School on Oahu. Courtesy Photo



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On The Cover

Secretary of the Army John McHugh (second from right) and senior USARPAC and Corps of Engineers' leaders listen to an on-site brief on the construction status of the USARPAC Mission Command Facility at Fort Shafter. Photo by Joseph Bonfiglio



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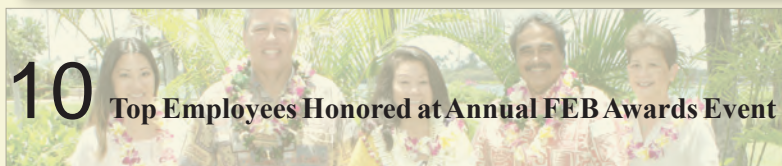
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COMMANDER'S COMMENTS

Lt. Col. Christopher W. Crary District Commander



*"The best place where the best people serve,
singularly focused on executing quality
projects...relevant, ready, responsive and
reliable and having fun!"*



Aloha District Ohana!

There's a lot to look forward to in 2015, both in challenges and opportunities. As we continue to work together as a TEAM, our potential for success is unlimited.

We've had a brisk start to 2015 with several key leader engagements, visits to our Pacific nation partners, the District's 110th birthday, American Samoa Flag Day activities, as well as construction awards for several of our projects.

Early in 2015 we held several briefings with key Army, congressional and foreign defense officials and showcased some of our major projects. Throughout these briefings I have received accolades on the District's professionalism, quality of work, and support provided throughout the Pacific Region.

I also had the opportunity to travel in the Pacific to Palau, the Federated States of Micronesia, Saipan, Tinian, Guam, and Kwajalein where we met with representatives from the various Embassies and Governments. In all locations, the Corps of Engineers (USACE) is seen as a great, value-added organization. This is largely due to our professionalism and dedication to delivering quality engineering service and products on time and at a reasonable cost. In addition, during a recent trip to Washington, D.C., our District team of Tony Paresa (DPM), Derek Chow (Chief, Civil & Public Works Branch), Jackie Conant (Congressional Liaison), and I met with our elected officials and senior leaders at Headquarters, USACE. I'm proud to report they are also very pleased with all we do, and the positive impact we make in the Pacific region. We also had the opportunity to later meet with the Department of the Interior's Assistant Secretary for Insular Affairs Ms. Esther Kia'aina, who expressed great confidence in our ability to deliver projects and services that are important for her organization and those she serves throughout the Pacific.

More than 20 District teammates and their friends and partners hiked to Makapu'u Lighthouse at sunrise April 13 to celebrate the 110th anniversary of the District's founding. The Corps' history in Hawaii and the Pacific began in 1905 when Lt. John R. Slattery became the District's first commander. His original mission was to construct lighthouses for navigation, like Makapu'u, which was built by the Corps in 1909 on a 600-foot sea cliff overlooking Makapu'u Beach in southeast Oahu.

In mid-April, Chief of CivilWorks Derek Chow and I attended the 115th American Samoa Flag Day event in Pago Pago. This year's Flag Day specifically honored the contributions of the men and women of American Samoa who proudly served and continue to serve our nation in the Armed Forces. During our stay, Derek and I conducted a Science, Technology, Engineering and Math (STEM) outreach with 45 eighth and ninth grade students at Manumalo Baptist School. Additionally, we had an office call with new American Samoa Congresswoman Aumua Amata Coleman Radewagen where we provided her with a brief overview of the USACE authorities and discussed ongoing projects/activities in American Samoa. She was particularly interested in shoreline protection projects, and we committed to provide her office some of our previous American Samoa shoreline protection reports and studies.

Honolulu District recently was honored by the National Association of Industrial and Office Properties (NAIOP) and the Historic Hawaii Foundation's (HHF) for excellence in project construction. The American Battle Monuments Commission (ABMC), Honolulu Memorial (Punch-bowl) Projects / ABMC Vietnam Pavilions won this year's NAIOP Kukulu Hale Award, while Schofield Barracks' Quad D Buildings 450 and 451 and the Tripler Army Medical Center's Bldg. 104 (Barracks) renovation won the HHF 2015 Preservation Honor Award. The HHF Preservation Honor Awards are Hawaii's highest recognition of preservation projects that perpetuate, rehabilitate, restore or interpret the State's architectural, archeological, and/or cultural heritage. In addition, the joint service-produced "Fort Kamehameha Documentary" video was recognized with an Interpretive Media Award by the HHF. Honolulu District was the principal project delivery team member that developed the project scope of work, awarded the contract, and provided subject-matter expert review, contract supervision and administration.

Central Pacific Hurricane Season started June 1 in Hawaii. As a District - through our participation and support of the state of Hawaii's annual Makani Pahili exercise - we exercised our processes to ensure we're ready to support ourselves, FEMA, and the state in the event of a natural disaster. I encourage the Ohana to take the time to properly prepare your families. Make sure you restock those emergency preparedness kits for your home and vehicles (radios, flashlights, batteries, water, non-perishable food, etc.) and reestablish/reinforce communication and safe meeting plans. More information on emergency preparedness can be found on the State Emergency Management website at: <http://www.scd.hawaii.gov>.

The District's recently approved OPLAN for Fiscal Years 2015 to 2017 will assist us in charting the District's future. This OPLAN (short for operations plan) is a list of priorities that map the direction for our District and is synchronized with the direction provided by Pacific Ocean Division Headquarters as well as USACE Headquarters. The three main goals for the new OPLAN are Deliver on Commitments, Shape the Workforce and Taking Care of People. The purpose of these primary goals and their supporting objectives is "to establish the strategic framework needed to guide the District between FY15 and FY17 to be best postured for uncertainty and continued success."

Many thanks to the District Ohana for your continued service to our Nation, our mission, and for ensuring we're all moving in right direction as a TEAM.

ONE TEAM - BUILDING STRONG®!

USARPAC Facility Supports Continued Presence

Story by
Staff Sgt. Kyle J. Richardson
U.S. Army-Pacific Public Affairs

The U.S. Army Pacific (USARPAC) Headquarters, housed in 12 temporary wooden buildings dating back to World War II, is being replaced by a new state-of-the-art mission command facility (MCF) now under construction on a bustling construction site a few blocks from Palm Circle Historic District, here.

With the Army's rebalance to the Pacific, the new \$400 million facility will not only consolidate command and control capabilities for the Army's theater commander, but also dovetail with the Pentagon's major effort to standardize network services across all of the Defense Department, known as the Joint Information Environment (JIE).

"The focus has really been shifted to the Pacific, and as a result of that, leadership changes are now in place to meet those requirements," said Lt. Col. Mollie A. Pearson, product manager for Power Projection Enablers (P2E) at Fort Belvoir, Virginia, who recently highlighted the Hawaii modernization project in a recent issue of the Army's *Signal* magazine.

The new building will provide an environment conducive for USARPAC to host flag-level and diplomatic visits from 36 partner nations in the Indo-Asia-Pacific region, which stretches across 16 time zones and represents more than 50 percent of the world's population.

Twenty-five percent of the U.S. Army is located in the Pacific. Plus, five of the seven U.S. mutual defense agreements are held in the Pacific, along with seven of the world's 10 largest armies.

"Though there were talks of a loss of forces,



Gen. Vincent K. Brooks, U.S. Army-Pacific commander, talks about the interior of the new mission command facility during a walk-through, Feb. 12. Brooks was receiving an update on the progress of the mission command facility. Photo by Staff Sgt. Kyle Richardson, U.S. Army-Pacific Public Affairs

the reality is ... this (the new MCF) is a continued expression of the investment that has already been made and is ongoing," said Gen. Vincent K. Brooks, commander, USARPAC, who recently donned a hard hat and toured the bustling construction site and received progress updates from officials.

Phase one is scheduled for completion this summer. Phase two was approved by Congress



U.S. Army Pacific Commander Gen. Vincent K. Brooks (center) and senior Corps and USARPAC leaders were briefed on the construction status of the USARPAC Mission Command Facility (MCF). The MCF, which the Corps is building for USARPAC, will consolidate USARPAC Headquarters into one facility that will support Mission Command of Army or joint forces across the Asia-Pacific Area of Operations. Photo by Duy Ta, ACE-IT Visual Information Specialist

in 2014, and the final phase was authorized with the 2015 fiscal year National Defense Authorization Act (NDAA) with funding spread throughout the next few years.

A completion date has not been set.

"The MCF will provide improved command and control systems with the Joint Staff and Army Headquarters," said Bob Hurban, USARPAC's Military Construction program manager. "The planning and design for this facility has been under development for several years, and the FY15 NDAA assures us the full capabilities of the facility will be realized."

The new facility is eco-friendly and will include storm water management (water catchment and storage for irrigation), heat recovery on chilled water (to preheat hot water) and recycled materials (rocks, trees, sorting waste material). It will also be photovoltaic (PV) solar panel ready, in the Army's efforts to utilize renewable energy sources.

All these features, and more, are used to help the MCF gain the Leadership in Energy and Environmental Design (LEED) Silver certification. LEED is a rating system used in the design, construction, operation and maintenance of green buildings.

Even though the Army is going through a transition, there will be a continued presence in the Indo-Asia Pacific region along with the support to the Army's partner nations and its people, Brooks said. (Indo-Asia Pacific region is a term used by the command to describe the region.)

"The Army is absolutely investing in its presence in the Pacific. Even with sequestration, this is a long-term commitment," said Brooks.

Fort Shafter and the Army headquarters are continuing to adapt and modernize to meet the needs of military commanders in the region.



Gen. Vincent K. Brooks, U.S. Army-Pacific commander (right), examines the USARPAC logo in the new Mission Command Facility conference room during a walk-through of the facility. Photo by Staff Sgt. Kyle J. Richardson, U.S. Army-Pacific Public Affairs

Internship: Tapping into the USACE Footprint

Story by
1st Lt. David Karwick
South Pacific Division, U.S. Army Corps of Engineers



1st Lt. David Karwick talks with a contractor at the Schofield Barracks Quad B project site. Courtesy photo

In the May-August 2014 edition of *The Professional Bulletin of Army Engineers* Col. Adam S. Roth published an article titled, “*One Regiment: Breaking Down the Stovepipes*.” In the article, he described how constrained resources, fiscal austerity, and sequestration have caused turbulence to the flow of how the Engineer Regiment supports the Army and the Nation from a “one Regiment” perspective.

I had the unique opportunity to participate in an Engineer Internship Program with the U.S. Corps of Engineers (USACE) Honolulu District, which is one idea Col. Roth provided as a way to create synergies across the Engineer Regiment. As a military member, or “green-suiter,” there are a limited number of opportunities to be assigned to a role within USACE, but there are still ways in which active and reserve units can tap into the USACE footprint and share knowledge within the Regiment.

USACE is currently composed of approximately 37,000 civilian employees, with only about 700 military personnel.

A small percentage of overhead funding is used to pay USACE employees, so the entire USACE workforce is dependent upon the workload Congress approves. There are currently positions that include, but are not limited to, Tech DP, Aide-de-Camp, and Resident Area Engineer Officer that are available to company grade officers. Positions for non-commissioned officers below the E-9 paygrade are even more uncommon than positions for officers. It is unlikely USACE will ever have the need to fund a substantial increase of “green-suit” positions because funding detracts from the available overhead budget. Making use of site visits, limited internship programs, and the USACE Reachback Operations Center (UROC) are ways engineers at the tactical level could benefit from the knowledge USACE has to offer.

Construction Site Visits

Military construction (MILCON) site tours are a way to share construction techniques, project management techniques, and lessons learned from a variety of projects. The Honolulu District has been conducting renovations of the “Quadrangle” (Quad) areas at Schofield Barracks on Oahu that were built in the early 1900s. After tearing out the interior plumbing, electrical, and drywall, workers noticed that concrete beams had eroded to a point that compromised the structural integrity of the buildings. By touring the facilities I was able to learn how the

workers amended the beams and the effect it had on the overall cost and project schedule. Site visits can also teach how safety and sustainability standards are incorporated and executed in a construction project. USACE demands contractors comply with EM 385-1-1, which is the manual that provides very specific USACE safety standards. An unsatisfactory safety rating can affect a contractor’s ability to win projects.

USACE projects also demand Leadership in Energy & Environmental Design (LEED) compliance and some of the ways engineers achieve LEED requirements are very creative. LEED is a green building certification program that recognizes best-in-class building strategies and practices. Observing these ways can teach leaders how to make construction operations more sustainable.

Internship Programs

Internship programs can help younger leaders understand the roles, responsibilities, and structure of a USACE District. USACE Districts can be structured very differently depending on whether the District primarily executes military construction or civil works projects. The way in which project management, construction management, and contracting are involved in these types of projects can change depending on the District. It’s also beneficial to learn how USACE Regulatory offices have a profound effect on the public. Understanding military construction, civil works and regulatory in depth can help gain an understanding of how the Engineer Regiment is perceived by the public.

Specialized and technical internship programs could also help officers, NCOs, or warrant officers gain a specific training set. Interning with project and construction managers provide an opportunity to learn how contracted professionals keep a project under budget, on time, and within scope. Design teams could also offer a unique training set for warrant officers and NCOs wanting to learn technical information on part of a design analysis.

USACE Reachback Operations Center (UROC)

The USACE Reachback Operations Center (UROC) provides a way for personnel deployed around the world to reach back for assistance for technical assistance. Engineers and experts at USACE provide answers to Requests for Information (RFI) for personnel who may not have the resources to find an answer. UROC is a fairly known resource, but helping the civilians who answer the RFIs could be a great source of techni-



After tearing out the interior plumbing, electrical, and drywall inside a Schofield Barracks Quad building, contractors noticed concrete beams had eroded to a point that compromised the structural integrity of the building. (Above) 1st Lt. David Karwick inspects plumbing lines and amended beams inside a Quad B building. Courtesy photo

cal engineer training. This is a great way to provide experience for civilian credentials like a professional engineering (PE) license. Warrant Officers especially could gain a lot by understanding the analysis given to answer the RFIs received by the UROC. Furthermore, involvement with the UROC helps give civilians who are answering the RFIs perspective on what the work they do actually does in the Army.

Tapping into the USACE footprint takes initiative from leaders within active duty or reserve units. An internship program takes a higher level of coordination than company level. Site visits and UROC involvement, however, are great ways lower level leaders can get involved with USACE. Simple ideas like these to be engaged with the regiment do not require extensive planning, but they do provide endless benefits and a shared culture within the engineer regiment.

District Engineers Participate in 2015 Engineers Week

Story by
Dino W. Buchanan
Pacific Connection Editor

More than 200 engineers and friends of the 17 organizations within the Hawaii Council of Engineering Societies plus invited local VIPs and dignitaries and engineers from the Honolulu District gathered at the Hale Koa hotels's Banyan Tree Showroom Feb. 24 for a luncheon to kick off Engineers Week 2015, which ran Feb. 22-28.

"Engineers Week is a great opportunity to showcase the accomplishments and capabilities of the Honolulu District's professional engineers, architects and surveyors," said Todd Barnes, chief of Engineering & Construction, U.S. Army Corps of Engineers, Honolulu District.

The 2015 Engineers Week theme was "Discover Engineering!" and the local theme was "sustainability."

Statewide Engineers Week activities included: signing of an Engineers Week Proclamation and photo opportunity with Honolulu Mayor Kirk Caldwell; signing of an Engineers Week Proclamation and photo opportunity with Hawaii Gov. David Ige; Engineers Week static displays at Pearlridge Shopping Center Feb. 22 by engineering organizations; attendance at the kick-off luncheon and the HCES (Hawaii Council of Engineering Societies) Engineers Week Annual Awards Banquet held February 28. The Corps of Engineers supports all of these events.

The celebration of National Engineers Week was started in 1951 by the National Society of Professional Engineers in conjunction with President George Washington's Birthday. President Washington is considered the nation's first engineer, notably for his surveying work.

The Hawaii Council of Engineering Societies (HCES) has been in existence since 1965. It is an umbrella organization for the engineering societies in Hawaii with seventeen member organizations. The charter is "to improve the public image of engineers, encourage registration of all qualified engineers, and to stimulate qualified students in public and private schools to enter engineering and related sciences as their life work." HCES has been celebrating Engineers Week in Hawaii since 1965.

Barnes and several of the District's Department of the Army interns created Corps of Engineers and Honolulu District photographic exhibits that showcased the District's missions for public display at Pearlridge Shopping Center.

Jointly hosted by the Honolulu Post of the Society of American Military Engineers (SAME) and the Hawaii Council of Engineering Societies (HCES), the 2015 Kick-off Luncheon featured keynote Mark B. Glick, Administrator, Hawaii State Energy Office, Department of Business, Economic Development & Tourism, whose presentation topic was "Hawaii's Clean Energy Transformation."

Each year during Engineers Week, the HCES organizes display exhibits to increase public awareness and appreciation of the engineering profession. The purpose of the displays and interactive exhibits is to improve the pub-



Deputy Chief of Engineering and Construction Eddie Johnson (right) talks with an engineering student about possible career paths within the U.S. Army Corps of Engineers at the University of Hawaii at Manoa's College of Engineering Career Day held in late February. Photo by Debbie Vierra

lic image of the engineering profession and to stimulate qualified students in public and private schools to choose careers in engineering and in related science fields.

The public was able to enjoy Engineers Week at the Pearlridge Mall in Honolulu where static engineering exhibits were on display and the Hawaii Council of Engineering Societies and Pearlridge Center sponsored the Engineers Week Hawaii VEX IQ State Robotics Championship that featured elementary and middle school teams. Robotics is one of the outreach programs to encourage students to enter the fields of science, technology, engineering, and mathematics (STEM).

Prior to Engineers Week, Honolulu District engineers and staff attended the Oahu 2015 MATHCOUNTS competition where personnel volunteered their services as moderators, proctors and scorers at the Oahu competition at Kamehameha Schools, Honolulu. Sixth, seventh and eighth graders from more than 36 Oahu public and private schools participated in the competition. The MATHCOUNTS program in its 32nd year is sponsored by the National Society of Professional Engineers at the state and local levels to emphasize the importance of mathematical skills in the development of future technology and encourage students to excel in these areas.

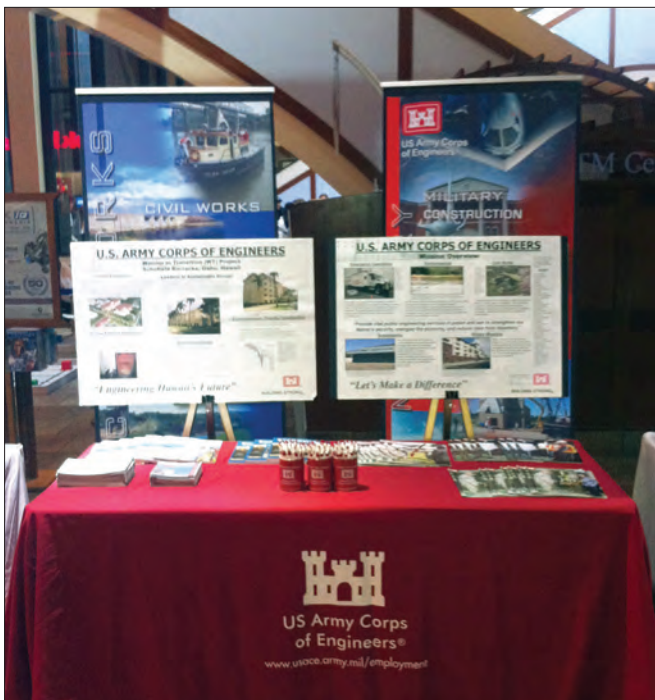
MATHCOUNTS builds skills, promotes strategic problem solving and challenges students to sharpen their analytical abilities by bringing together sixth, seventh and eighth grade students through the MATHCOUNTS competition program, a national middle school

coaching and competitive mathematics program that promotes mathematics achievement through a series of fun and engaging contests as individual, team and single elimination head-to-head individual events. The program exists in all 50 states plus U.S. territories and the Department of Defense and State Department schools.

Respective winners from Oahu, Maui and the island of Hawaii met for the State MATHCOUNTS championship in early March at Kamehameha Schools. District volunteers again participated at the state competition. State winners advanced to the National MATHCOUNTS Championship held May 8 in Boston, Mass.

The U.S. Army Corps of Engineers recognizes the critical role that STEM education plays in enabling the U.S. to remain the economic and technological leaders of the global marketplace, and enabling the Department of Defense and Army in the security of our Nation. The Corps is committed to teaming with others to strengthen STEM-related programs that inspire current and future generations of young people to pursue careers in STEM fields.

Also coinciding with this year's National Engineers Week activities was the University of Hawaii at Manoa's College of Engineering Career Day. Honolulu District Workforce Management staff and District engineering personnel were on hand to provide future engineers with educational career guidance, information on potential job opportunities within the Corps, as well as discussing potential STEM field career paths.



In honor of the 2015 Engineers Week, the Hawaii Council of Engineering Societies (HCES) sponsored exhibits and the State VEX IQ Robotics Championship at Oahu's Pearlridge Shopping Center. The exhibits were judged for presentation, technical merit, and promotion of engineering. Honolulu District's exhibit (above left), that featured our Warriors in Transition project at Schofield Barracks, plus the missions of the Honolulu District, and information on engineering jobs at Honolulu District, was created and assembled by our Department of the Army ACTED Interns, Lauren Molina, Jason Krook, and Geri Ribao. The display won the HCES Display honors in the "Presentation" category. Courtesy Photo (Above right) Interns Lauren Molina (left) and Jason Krook (right) presented District Commander Lt. Col. Christopher Crary with the HCES award plaque they accepted on behalf of the District. Photo by Dino W. Buchanan

2015 HCES Lifetime Achievement Award Winner

Brig. Gen. (Retired) Paul Chinen was honored with the Hawaii Council of Engineering Societies Lifetime Achievement Award at the 2015 Engineers Week Annual Awards Banquet held February 28.



Paul Chinen retired from the U.S. Army in October 1994 as a Brig. Gen., U.S. Army Corps of Engineers, after completing 31 years of active duty service. Prior to his retirement, he commanded the U.S. Army Corps of Engineers' Ohio River Engineer Division, Cincinnati, Ohio followed by the North Atlantic Engineer Division, New York, N.Y.

He commanded all levels, beginning as a platoon leader in the 326th Airborne Engineer Battalion, 101st Airborne Division; Company C, 70th Engineer Battalion, Vietnam; Battalion Commander of the 27th Airborne Engineer Battalion, Fort Bragg, NC; and Group Commander of the 36th Engineer Group, Fort Benning, GA. Brig. Gen. Chinen served two tours in Vietnam, 14 months with the 70th Engineer Battalion, and 12 months with the 173rd Airborne Brigade.

After retirement from active duty, he then served 10 years as the Program Manager for the U.S. Navy, NAVFAC Pacific Remediation Contracts I & II, totaling approximately \$375 million in contract value.

Under these contracts, environmental remediation construction projects were performed throughout the Navy's Pacific area of responsibility, which includes Hawaii, Guam, Midway, Johnston Island, Wake, Okinawa, and Japan.

Joining Earth Tech, Chinen became the Program Manager for the front-end work for Navy's Comprehensive Long-term Environmental Action Navy (CLEAN) contract. He was the Program Manager for CLEAN II (\$144 million over a 10-year period) and CLEAN III (\$100 million over a 10-year period). Concurrently, he managed the Earth Tech Hawaii Region Office.

Brig. Gen. Chinen held this position until his final retirement in early 2008. He holds a Bachelor of Science degree in Civil Engineering from Seattle University and a Master's degree in Structural Engineering from Iowa State University. BG Chinen's military schooling includes the Basic and Advanced Engineer Officer courses, Airborne and Ranger training, U.S. Army Command and General Staff College, and the Industrial College of the Armed Forces. He is a qualified Master Airborne Paratrooper.



(Above) Honolulu District engineers and staff attended the Oahu and State 2015 MATHCOUNTS competitions where personnel volunteered their services as moderators, proctors and scorers. Sixth, seventh and eighth graders from more than 36 Oahu public and private schools participated in the competition held at Kamehameha Schools. The MATHCOUNTS program in its 32nd year is sponsored by the National Society of Professional Engineers at the state and local levels to emphasize the importance of mathematical skills in the development of future technology and encourage students to excel in these areas. Courtesy photos

Honolulu District, USAG-HI DPW Participates in Groundbreaking for 25th ID CAB Phase 2 Complex

Story by
Dino W. Buchanan
Pacific Connection Editor

The U.S. Army Corps of Engineers-Honolulu District, U.S. Army Garrison-Hawaii Directorate of Public Works, and contractor Nan-Samsung LLC personnel participated in a Hawaiian groundbreaking and site blessing March 18 on the south side of the Wheeler Army Airfield airstrip, officially starting the construction for the second phase of the 25th Infantry Division (25th ID) Combat Aviation Brigade Complex (CAB).

Reverend Sherman Thompson led the Hawaiian blessing for the site as well as the more than 60 CAB Phase 2 contractors and staff. Also blessed were representatives from the U.S. Army Corps of Engineers-Honolulu District and the 25th ID CAB.

The \$69.7 million project is the second of 16 additional phases required to complete the entire \$1.6 billion CAB complex. This project will construct two, six-story standard design barracks for Soldiers assigned to the Combat Aviation Brigade. This project dovetails with the CAB Phase 1 Site Infrastructure project for all roads and utilities and infrastructure. Coordination is on-going with CAB Phase 1 contractor David Boland LLC to synchronize construction for the two phases, as the two barracks will be situated within the CAB Phase 1 project site.

A design-build contract for the CAB Phase 2 project was awarded to Nan-Samsung on May 13, 2014 for \$69,749,203. The construction completion date is January 2017. Design was done by Group 70 International, Mitsunaga and



Representatives from the Honolulu District, U.S. Army Garrison-Hawaii Directorate of Public Works, the 25th Infantry Division Combat Aviation Brigade (CAB), and contractor Nan-Samsung LLC listen as Reverend Sherman Thompson begins the Hawaiian blessing for Phase 2 of the 25th ID CAB complex. The \$69.7 million project is the second of 16 additional phases required to complete the entire \$1.6 billion CAB complex. Photo by Dino W. Buchanan

Associates, Geolabs, Martin & Chock, InSynergy Engineering, Walters Kimura Motoda, and Facility Dynamics Engineering.

Primary facilities include a central plant, antiterrorism measures, an Energy Monitoring Control Systems connection, and sustainability/energy measures. Supporting facilities will include site development, utilities and connections, lighting, paving, parking, walks, curbs and gutters, storm drainage, information systems, landscaping and signage. Air conditioning will be provided by the central plant.

The project is targeted for Leadership in Energy & Environmental Design (LEED) Silver certification from the Green Building Certification Institute (GBCI). LEED is a green building certification program that recognizes best-in-class building strategies and practices.

The Honolulu District is committed to building and managing the construction of high quality projects that improve the quality of life for service members and their families and that provide jobs and money which stimulate the local economy.



This photo of a Combat Aviation Brigade Phase 2 project design rendering shows the two, six-story standard design barracks to be built for Soldiers assigned to the 25th Infantry Division Combat Aviation Brigade. Courtesy graphic

Five Employees Describe Journeys into USACE STEM Careers

Story by
Dino W. Buchanan
Pacific Connection Editor

Five Honolulu District women employees shared their personal, educational, and professional experiences entering and working in the Science, Technology, Engineering and Math (STEM) career fields March 31, during the District's annual Women's History Month celebration.

"USACE needs STEM graduates as there are large numbers of retirement-eligible personnel in USACE - and the District - so we will need a pipeline and talent pool to fill those jobs in the future," said Honolulu District Commander Lt. Col. Christopher Cray in his brief introduction to the presentations. He added that in the next three to five years there will be a one million person shortfall of STEM professionals since college students completing STEM degrees today are taking other non-STEM jobs.

Speaking to a standing room-only gathering of employees, Archaeologist Dawn Lleces, Cartographer Sarah Falzarano, Civil Engineer Lauren Molina, Supervisory Environmental Engineer Uyen Tran, and Civil Engineer Jennifer Eugenio each described the processes of joining STEM career fields.

Dawn Lleces said as a child she couldn't decide what career path to follow.



"I originally wanted to be a doctor, but I never really had a plan. Throughout my career, no matter what I did professionally, I've always surrounded myself with the best people in that career field - they were the best of the best. They were the movers and shakers of the community - and the leaders of tomorrow. After I landed my first job in 2002, my very first professional project was the U.S. Army's Makua EIS (Environmental Impact Statement) and the second project was the U.S. Army's Stryker Brigade EIS - probably two of the hardest projects ever worked on in this state or the nation. I enjoy being where the action is, where decisions are being made, and where my work behind the scenes helps make those decisions. For me, (working in a STEM field) was an exercise and a leap of faith that I followed."

Falzarano explained that her STEM path started at home.

"My mom has been my mentor and is a real big inspiration for me - making sure different opportunities were always provided for me and instilling in me the important ideas that the same opportunities should be afforded to both men and women," explained Falzarano. "What I learned from my first job in data entry was that GIS was a really powerful tool, and it made me realize that when I got out of college I didn't have a marketable skill. Although my current job has very little to do with my passion for science and is primarily technology, I've learned



Honolulu District celebrated National Women's History Month by holding a panel discussion featuring five women members of our Ohana who work in STEM fields (Science, Technology, Engineering, and Mathematics). They shared the personal, educational, and professional experiences that led them to their careers. These outstanding role models also discussed how more women could be attracted to pursue careers in STEM. Photos by Duy Ta, ACE-IT Audio Visual Specialist

here to really push the envelope with the technology to help the other scientists, the engineers to accomplish their jobs and missions. And it's been very inspiring for me."

"My career in STEM started at home," Molina said. "Both of my parents were chemistry teachers, so naturally there was a lot of science talk at home and it influenced me to enjoy studying math and science in school. As a child not knowing the (career) options of 'what do you want to be when you grow up?' was imposing. I knew I didn't want to be a teacher and I didn't really know what else was out there. I have an older brother who was going to go study engineering in college and I think that really was the first time I had heard about engineering. I thought engineering was going to be a good fit for me - being able to apply math and science to real world problems and trying to make a positive impact on the world. The takeaway



lesson from my experiences is that you just have to keep trying different things until you find the career you really want."

Uyen Tran's path into a STEM field started early in her life.

"I chose math as a field of study in (elementary) school because there is, almost always, a solution to a math problem, moreover the subject only required a written exam at the end of every school year, as opposed to a combination of oral & written for other subjects" said Tran. "That's how I started (in the STEM field). My original college degree was in math before I went on to earn chemistry and chemical engineering degrees. Through all of the jobs I've held, it seems to me that the math training I had really helped me in my analytical problem solving. Math is everywhere to me. In my current job, there's a little bit of chemistry, little bit of

engineering, but it's mostly analytical thinking and problem-solving. So I think it's a good field (math) to go into."

Eugenio talked about her role in the District's STEM outreach activities and the increasing need for Corps employees to participate in those events.

"The impact we (the Corps) can have on students at a young age to gain interest in STEM



is amazing," Eugenio said. "Just us being out there at (student engineering) events shows we are serious about their interest in STEM. These students are our future and getting STEM education into the minds of middle school, high school and even elementary age students is key. Having them understand that you can have a career in engineering and that engineering is all around us opens up interest and endless possibilities for these kids. To get that information into a person's mind at those ages is vital and all it takes is a little bit of time and effort, showing that we (the Corps) care about what their STEM interests are."

Chief of Engineers Lt. Gen. Thomas P. Bostick has asserted that the Corps of Engineers is a leader in solving our Nation's Science, Technology, Engineering, and Math (STEM) challenges and "STEM education remains critical to the technical competencies of the Engineer Regiment and to the future of the USACE civilian workforce."

USACE is actively focused on recruiting recent/future STEM graduates by creating more than 100 formal partnerships with STEM-focused universities and colleges as well as offering more than 1,000 STEM Internships each year.

Top Employees Honored at Annual FEB Awards Event

Four Honolulu District employees, one Pacific Ocean Division employee, and one project delivery team were honored at the Honolulu-Pacific Federal Executive Board (HPFEB), 59th Annual Excellence in Federal Government Awards Ceremony May 1 at Hickam Officers Club, Joint Base Pearl Harbor-Hickam.

The Excellence in Federal Government Awards Program recognizes outstanding federal employees for their efforts, leadership, and/or initiative. The program encourages innovation and excellence in government, reinforces pride in federal service, and helps call public attention to the broad range of services provided by federal employees. The program is recognized as an important form of recognition for federal employees in the Honolulu-Pacific area.

Agency's selectees in all seven categories are honored as the "best of the best" - the best people who helped meet their mission, goals and values for the year. The Pacific Ocean Division commander endorses each year's nominees for the Federal Government Awards Program.

This year's Honolulu District / Pacific Ocean Division awardees were:

Team Excellence: Field Station Kunia Project Delivery Team.

Federal Leader/Supervisory/Manager of the Year: Darren H. Carpenter.

Federal Employee of the Year – Professional, Administrative and Technical: Jodi M. Yamamoto

Federal Employee of the Year – Clerical and Assistant: Diane L. Oda

Federal Employee of the Year- Trades and Crafts: Steven Paahana

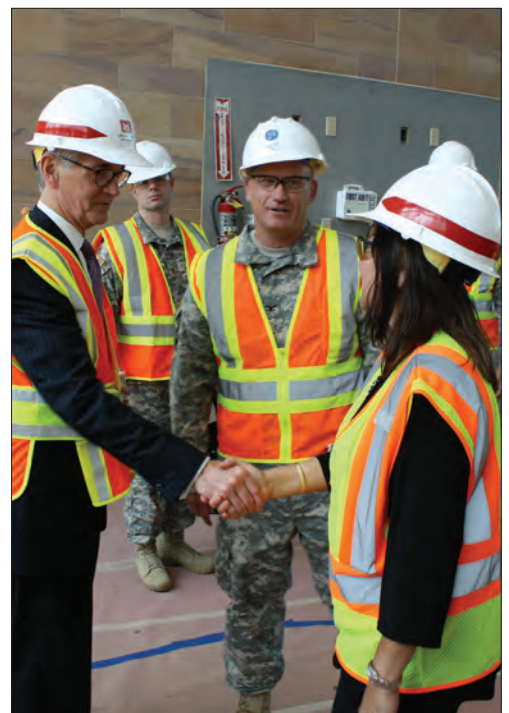
Mentor of the Year: Kevin K. Araki



Honolulu-Pacific Federal Executive Board's Annual Excellence in Federal Government awardees from Honolulu District and Pacific Ocean Division (left to right) Darren Carpenter, Jodi Yamamoto, Kevin Araki, Diane Oda, and Field Station Kunia Project Delivery Team member Tristan Tsuetsugu, are pictured with Honolulu District Commander Lt. Col. Christopher Cray after the ceremonies at Joint Base Pearl Harbor-Hickam. Not shown is awardee Steven Paahana. Photo by Dino W. Buchanan

Army Secretary Visits USARPAC MCF Project

Secretary of the Army John McHugh (left photo, center) and senior USARPAC and Corps leaders were briefed on the construction status of the USARPAC Mission Command Facility (MCF) at Fort Shafter in late April. The MCF, which the Corps is building for USARPAC, will consolidate USARPAC Headquarters into one facility that will support Mission Command of Army or joint forces across the Asia-Pacific Area of Operations. (Right photo) Secretary McHugh presents a Secretary of the Army coin to MCF Project Manager Lise Ditzel-Ma. Photos by Joseph Bonfiglio



Groundbreaking Starts Construction Phase for SMDC Space Fence

By SMDC/ARSTRAT Public Affairs & Honolulu District Public Affairs

Officials broke ground Feb. 10 on Kwajalein island in the Republic of the Marshall Islands, to kick off a 36-month construction effort to build the Space Fence radar system.

The Space Fence, an S-band radar, will be located on the U.S. Army Garrison Kwajalein Atoll (USAG-KA), but the Space Fence Operations Center will be co-located at Reagan Test Site (RTS) Operation Center in Huntsville, Ala., or ROC-H.

The U.S. Air Force Space and Missile System Center (SMC) owns the contract, but the U.S. Army Corps of Engineers Honolulu District will provide quality surveillance and facility engineering technical support for the construction of the \$300 million facility and power plant used to house and run the Space Fence system. The week after the ceremony, Honolulu District Commander Lt.

Col. Christopher Crary and Deputy District Engineer for Programs and Project Management Tony Paresa met with senior SMC officials, the SMC Space Fence Project Manager, and representatives from (the prime contractor) Lockheed Martin at the District headquarters in Hawaii, to discuss project execution, roles/responsibilities, and partnering principles need to deliver this project on time.

"The Air Force's installation of the new space fence radar marks a key milestone for both USAG-KA and RTS," said Richard DeFatta, acting director, U.S. Army Space and Missile Defense Command/Army Forces Strategic Command's Technical Center. "It brings another significant tenant to the garrison, but will also allow the range to explore cooperative opportunities to work with the Air Force in SMDC/ARSTRAT's critical space operational mission area."

The Space Fence will provide the capability for dedicated uncued surveillance of small objects in low-earth orbit with useful capability in the higher orbit regimes. Uncued detection provides a continuous "curtain" of radar pulses forming a "fence" that enables detection, tracking and determination of objects' orbits without prior knowledge of their existence or location. The system will improve space situational awareness by detecting and tracking objects such as commercial and military satellites and debris from break-up events at a higher accuracy. Coverage will extend down to just above the horizon to handle low-inclination orbits.

The Space Fence will work in conjunction with the Joint Space Operations Center, or JSpOC, to provide an integrated picture of the space operating environment for the warfighter.

"Previously, the Air Force could only track and identify items the size of a basketball," said Dana Whalley, the Space Fence program manager, who is stationed at Hanscom Air Force Base, Mass. "With the new system, we'll be able to identify items down to the size of a softball. This will significantly increase our capability to provide predictive and actionable space situational awareness for the nation."

"The program will provide knowledge of objects, debris and events that will help us to maintain U.S. and allied space capabilities, protect space assets and prevent potential collisions in near-earth orbit," Whalley said.

The Space Fence is designed to provide assured coverage at low earth orbit for objects as small as 10 centimeters. The system will also support cued searches and uncued surveillance at medium earth orbit and above. The increased Space Fence sensitivity, coupled with the increased computing capabilities of the JSpOC Mission System, will yield a greater understanding of the space operating environment and associated threats.

"By providing a better picture of the space operating environment, Space Fence will greatly improve the Air Force's ability to see and understand that battlespace," said Whalley.

Officials awarded the engineering, manufacturing and design contract valued at \$914 million to Lockheed Martin on June 2, 2014. About 250 workers will live on Kwajalein during the construction period, which is expected to be ongoing until February 2018. Once the construction is complete, the Air Force will begin conducting acceptance testing. The projected initial operational capability is fiscal year 2019. The contract also includes an option for procuring a second radar site.

The Space Fence will replace the Air Force Space Surveillance System, or AFSSS, which has been in service since 1961 and could track about 20,000 objects before being shut down last year. The Space Fence will expand tracking to 100,000 objects or more by using two strategically placed ground radars, with the first one to be located on Kwajalein and the second to be located in Australia if further procurement allows for it.

"We must work jointly to ensure there are no impacts to ongoing operations and test activities. The Air Force will operate the radar, co-located with RTS operations, in our Huntsville ROC-H facility. We are excited with this opportunity to work together and leverage our lessons learned from our many years of operating RTS both on island and remotely," DeFatta said.

"I'm glad I was able to be here to support the ground breaking ceremony, which symbolizes the necessary cooperation between the Air Force, the Army and our contractor partners."



Representatives from the U.S. Air Force, U.S. Army Space and Missile Defense Command / Army Forces Strategic Command, Lockheed-Martin, the Space and Missile Systems Center in Los Angeles, the U.S. Army Corps of Engineers Honolulu District, Republic of the Marshall Islands host nation liaison, U.S. Embassy Majuro and others joined U.S. Army Garrison-Kwajalein Atoll command representatives Feb. 10 for the ceremonial groundbreaking for the more than \$900 million Space Fence project on Kwajalein Atoll. SMDC/ARSTRAT Public Affairs photo



More than 40 volunteers from the U.S. Army Corps of Engineers partnered with local JROTC students (shown above) and others to clean up Waikiki Beach and the Fort DeRussy beach berm April 11 as part of Earth Month 2015. More than 20 volunteers from the Punahou Junior ROTC program (which includes cadets from other area high schools and some home-schooled students) joined over 20 Corps employees and their friends and families to clean up the beach and berm area at the Corps' Pacific Regional Visitor Center (RVC) at Fort DeRussy in Waikiki. Photos by Joseph Bonfiglio

Corps of Engineers Partners with Punahou JROTC to Clean Up Waikiki Beach as Part of Earth Month 2015

**Story by
Joseph Bonfiglio**

Chief, Honolulu District Public Affairs

More than 40 volunteers from the U.S. Army Corps of Engineers partnered with local JROTC students and others to clean up Waikiki Beach April 11 as part of Earth Month 2015. More than 20 volunteers from the Punahou Junior ROTC program (which includes cadets from other area high schools and some home-schooled students) joined more than 20 Corps employees and their friends and families to clean up the beach and berm area behind the Corps' Pacific Regional Visitor Center (RVC) at Fort DeRussy in Waikiki.

The District was honored to have Pacific Ocean Division Commander Brig. Gen. Jeffrey and Mrs. Debbie Milhorn join the efforts.

Milhorn presented Commander's coins to and thanked Corps Park Ranger Angela Jones for her outstanding efforts to organize this annual event and to Lt. Col. Robert Takao, Commander of the Punahou Junior ROTC Program, for his long-term support of the program.

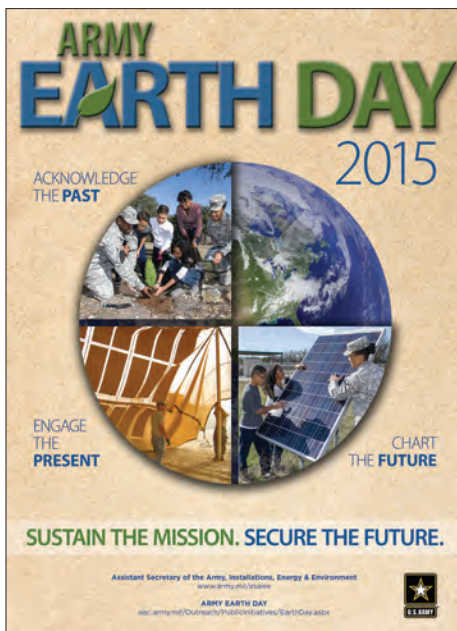
Also leading the Corps' efforts to protect the environment were Honolulu District Commander Lt. Col. Chris and Mrs. Maria Crary.

The annual Earth Month and Earth Day increase awareness and support for ongoing education and efforts to build partnerships and grassroots involvement to keep the 'aina clean year-round.

Earth Day was established March 21, 1970 as an annual event to deepen reverence and care for life on the planet.

The Corps' RVC first opened its doors at Battery Randolph in 1983. Its goal is to enhance the public's understanding of the multidimensional role of the U.S. Army and the U.S. Army Corps of Engineers. Particular emphasis is on Civil Works and water resources development which affect the lives of all the residents of Hawaii and the people of the Pacific.

The RVC is located on the second floor of historic Battery Randolph at Fort DeRussy,



Waikiki. Battery Randolph is listed on the National Register of Historic Sites and is one of 16 coastal fortifications built by the Corps between 1906 and 1917 for the protection of Honolulu and Pearl harbors.



Ohana Celebrates District's 110th Birthday with Hike to Honolulu District-Built Makapuu Lighthouse

Story by

Joseph Bonfiglio

Chief, Honolulu District Public Affairs

Led by Honolulu District Commander Lt. Col. Christopher W. Crary and his wife Maria, more than 20 District teammates and their friends and partners hiked to Makapuu Lighthouse at sunrise on April 13 to celebrate the 110th anniversary of the District's founding.

Deputy District Counsel Robyn Au, Capt. Jerrauld Ma, and Capt. Alberto Baez also participated in the hike to the lighthouse.

The Corps' history in Hawaii and the Pacific began in 1905 when Lt. John R. Slattery became the District's first commander. His original mission was to construct lighthouses for navigation, like Makapu'u.

Makapuu Lighthouse was built by the Corps in 1909 on a 600-foot sea cliff overlooking Makapu'u Beach in southeast Oahu. Makapu'u Point is an important location passed by all ships moving between Honolulu and the U.S. Mainland.

The critical need for this light was demonstrated in August 1906 when the 27,000-ton S.S. Manchuria ran up on a reef off the point. Congress had already appropriated \$60,000 for the light on October 1, 1909.

The lens for this light was one of the wonders of the Pacific. Press clips of the time noted that the lens, which had been exhibited at the Jamestown Exposition, was one of the most expensive in the world.

The lighthouse is 46 feet tall (14 meters) and was fully automated in 1974. It's still an active U.S. Coast Guard navigation aid in use today.

As "America's Engineers in the Pacific," the District's civil works, military construction and environmental missions evolved over time -- in periods of peace and war -- for over 100 years.

Today, the Honolulu District is a full-service District, providing a wide range of timely, effective, innovative solutions to meet our customers' engineering, construction and environmental needs.

The Honolulu District has seven primary missions: Military Construction, Civil Works, Interagency and International Services, Real Estate, Regulatory, Environmental Services, and Emergency Management.

The District's area of operations is enormous - crossing five time zones, the international dateline and approximately 12 million square miles of the Pacific Ocean - and includes the territories of Guam, American Samoa and Commonwealth of the Northern Mariana Islands, as well as the Freely Associated States including the Republic of Palau, Federated States of Micronesia and the Republic of the Marshall Islands.



Photos by Joseph Bonfiglio



District Commander, Civil Works Chief Attend American Samoa Flag Day, Conduct STEM Outreach with High School Students



Honolulu District Commander Lt. Col. Christopher Crary and District Civil Works Chief Derek Chow represented the U.S. Army Corps of Engineers at American Samoa Flag Day, which is celebrated every year on April 17. This year marked 115 years since American Samoa voluntarily joined the United States of America. This year's Flag Day honored the contributions of the men and women of American Samoa who have served and who proudly continue to serve our Nation in the Armed Forces. During their stay, Lt. Col. Crary and Chow met with 45 eighth and ninth grade students from Manumalo School (right photo) in American Samoa to discuss Science, Technology, Engineering, and Mathematics (STEM) career fields and opportunities. The event provided the students an opportunity to learn from engineers how STEM career fields solve some of our Nation's toughest challenges, protect our environment, and improve quality of life standards. Manumalo is refocusing their high school curriculum to become more engineering focused. The school's STEM careers promotion was very evident as a majority of the students who came expressed great interest in engineering, biology, natural sciences, and mathematics. There was also a great discussion about how STEM careers make a difference in the world. Courtesy photos



Maj. Gen. Todd B. McCaffrey, Chief of Staff U.S. Army, Pacific (USARPAC) and senior U.S. Army Corps of Engineers and USARPAC leaders attended a Mission Command Facility (MCF) Charrette outbrief at the District in late February. The Corps is building the MCF at Fort Shafter for USARPAC and it will consolidate USARPAC Headquarters into one facility that will support Mission Command of Army or joint forces across the Asia-Pacific Area of Operations. Photo by Joseph Bonfiglio

U.S. Army Pacific (USARPAC) Senior Corps of Engineers, and IMCOM-Pacific leaders provided an on-site informational brief for Lt. Gen. David D. Halverson (center, back), Commander, U.S. Army Installation Management Command and Assistant Chief of Staff for Installation Management, on the construction status of the USARPAC Mission Command Facility (MCF) project in mid-April at Fort Shafter. The MCF, which the Corps is building for USARPAC, will consolidate USARPAC Headquarters into one facility that will support Mission Command of Army or joint forces across the Asia-Pacific Area of Operations. Photo by Dino W. Buchanan



EMPLOYEES OF THE QUARTER

First Quarter 2015



LISE DITZEL-MA

Was recognized for her continuing and tireless work on the U.S. Army Pacific Mission Control Facility (MCF) program. During this period Lise participated in numerous project site visits to the Phase 1 construction site, providing the overall program briefings with the USARPAC Assistant Chief of Staff- Engineering staff and our construction resident office to commanders, congressional delegation staff, and foreign government visitors. She successfully led the project delivery team and design team to complete the MCF Phase 2 design and beat the scheduled ready to advertise date. Concurrently she has been working with Headquarters USACE on workload and placement whip curves to establish a funding strategy for the incremental funded MCF Phase 3 project. Her leadership greatly contributed to a successful charrette in mid-February to refine the scope for the Support Operations wing of the MCF.



ROBYN AU & JONATHAN SWANSON

Robyn and Jonathan led the Office of Counsel Project Delivery Team (PDT) for the Alternative Disputes Resolution (ADR) presentation to the Armed Services Board of Contract Appeals (ASBCA) on the Repair Palau Road construction project in an exemplarity fashion. Their leadership and level and type of involvement of the PDT in the presentation was a first for Honolulu District. Not only did the presentation lead to a settlement of the contract appeal, the ASBCA judge complimented the government team and stated their presentation was one of the best he had seen in over 20 years during an ADR session.



Deloris Guttman, Historian and Board President of the African American Diversity Cultural Center Hawaii (AADCC) speaks to District employees about the history of African-Americans in Hawaii.

Remembering Diversity in Hawaii's Heritage

In honor of African-American Black History Month, the Honolulu District Special Emphasis Program Committee presented featured guest speaker Ms. Deloris Guttman, Historian and Board President of the African American Diversity Cultural Center Hawaii (AADCC). Guttman spoke about the history of African-Americans in Hawaii and several individuals who made lasting and significant contributions to the islands' heritage. The 2015 African-American Black History Month theme was: "A Century of Black Life, History, and Culture." Photos by Dino W. Buchanan



Honolulu District held our latest session in the annual series of Safety and Health Training classes for Small Business Contractors in early March. More than 25 contractors and safety personnel people attended the training that focused on developing accident prevention plans to protect our construction contractors and their employees. Photo by Dino W. Buchanan

Ho'omaluhia Botanical Garden Volunteer Recognition Event

In early April members of our extended Ohana participated in and were honored at a City & County of Honolulu-sponsored Ho'omaluhia Botanical Garden Volunteer Recognition event on Oahu. Civil engineers Lincoln Gayagas and Jessica Wiggs, and Honolulu District retiree Jim Pennaz attended the event, which also featured Honolulu Mayor Kirk Caldwell. Gayagas (above right) and Pennaz spoke to nearly 150 volunteers, community dignitaries, and Honolulu Botanical Gardens staff about the importance and historical significance of the Kaneohe-Kailua Dam, which was built by the U.S. Army Corps of Engineers across Kamo'oali'i Stream. Photo by Jessica Wiggs





District Regulatory Office Provides Public Outreach

In a continuing effort to assist the people of Hawaii and the Pacific region, the Honolulu District has been holding outreach events to explain the Corps' Regulatory Program and how to best work with Corps regulators. In early March, Shelly Lynch, chief of our District Regulatory Branch (top photo), briefed members of the Society of Military Engineers (SAME) during their monthly meeting at Fort Shafter's Hale Ikena. Lynch also briefed the General Contractors Association in mid-March. In April, Kate Bliss, (above photo) Senior Project Manager in the District Regulatory Office, briefed 30 members of the National Association of Environmental Professionals in Honolulu. These briefings were well-received and provided invaluable information about our Regulatory processes. Courtesy photos



District engineers volunteered their time to serve as event supervisors at the 11th Annual 2015 Hawaii State Science Olympiad State Finals held at Leeward Community College on Oahu in March. Chief, Engineering & Construction Division Todd Barnes (standing) supervised the Air Trajectory event. Prior to the competition, teams designed, constructed and calibrated a single device capable of launching projectiles into a target in order to collect data regarding device parameters and performance. In addition, District Department of the Army Interns Jason Krook and Jennifer Eugenio, along with Capt. Jerrauld Ma supervised the Wheeled Vehicle event. Competitors designed, built and tested a vehicle that used a non-metallic, elastic solid as its sole means of propulsion (i.e. rubber band) to travel a specific distance as quickly as possible and stop as close as possible at a specific point. Courtesy photo

Transitions

Welcome: Robert McMahan / Erleen Aoki / Rebecca Frager / Joey Padeken / Alma Wu

Welcome Back: Joan Kaumikaua / Kelly Jones / Jack Yamada / Randy Chun / Robert Lau

Goodbye: Ron Hirano / Athline Clark / 1st Lt. David Karwick / Ronald Lum / Maj. James Covington / Sgt. 1st Class Dennis Klass / Randy Chun / Lorrie Kaneshige / Lt. Col. Evan Ting / Lynnette Shaper / Ronnie Kirkland / Maj. Issac Floyd / Capt. Jerrauld Ma / Tyler Miyamoto / Bernard Mora / Dickson Ma / Steve Paahana

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