

SEE PAGE 3 FOR DETAILS ON ENGINEERS WEEK SPECIAL EVENTS

2024 HCES LIFETIME ACHIEVEMENT AWARD

FRANK V. HERMANN PE

Frank Hermann is a Civil Engineer with 60 years of engineering experience, nearly all of which was in Hawaii and the Pacific islands centered on the design and construction of airports, taxiways, aprons, and terminals. He is known throughout his field as an expert for all aspects in Airport design and construction. Starting in the mid 1960's Frank was a pioneer in the development of the modern airport designs we all utilize and take for granted in our jet travels today.



In the early 1960's Frank started his career at the Bureau of Public Roads (BPR), now the Federal Highway Administration, as an engineer in training for 3 years. While at BPR he earned a management degree in urban planning, and he had the opportunity to work on the "Penn-Jersey Traffic Study" which was the first traffic study to use a computer for data analysis. With that experience and training, Frank then had the opportunity to study aircraft impacts on urban highway transportation near early airport developments.

In December 1966, now with the FAA, his expertise led him to a trip to Hawaii to review the sighting of the proposed new Kona Airport on Hawaii island. What had been proposed was an expansion of the existing airport just blocks from downtown Kona. After walking the Keahole lava field site and studying the community, Frank submitted his recommendation to build the airport on the hill above the Keahole point coast. The proposed site could allow for future runway expansion and located the airport away from the Kona community. The previous decision had been to just expand

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2024 YOUNG ENGINEER OF THE YEAR

NICOLE NAKAOKA IMANAKA

Nicole Nakaoka Imanaka is a project engineer at R. M. Towill Corporation with over 10 years of experience in site development and wastewater engineering design. Nicole grew up in Kaimuki and attended Punahou School prior to graduating from Seattle University in 2012 where she earned her Bachelor of Science in Civil Engineering with Environmental Specialty while playing on the women's Division 1 tennis team.



Nicole is experienced in subdivision utility and roadway design, hydrologic stream modeling, and sewerline rehabilitation, working on a variety of projects including Storm Drainage, Sewer & Water Master Plans at University of Hawaii at Manoa, Hoopili Development, and DHHL Papakolea Sewer Improvements Project. She is passionate about sustainable and equitable infrastructure and acquired the Environmental Sustainability Professional (ENV SP) certification in 2017. Nicole obtained her Professional Engineer (PE) license in 2018. Nicole also co-leads her office's Employee Committee and organizes community service activities with agencies such as Kokua Kalihi Valley, the Genki Ala Wai Project, and YWCA.

Nicole currently serves as the American Society of Civil Engineers (ASCE) Younger Member Forum (YMF) PE Exam Refresher Course Chair and has previously served as President of the YMF and Technical Tours Chair for the 2019 ASCE Western Regional Younger Member Council Conference. She enjoys volunteering with the YMF with various

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2024 ENGINEER OF THE YEAR

TERRANCE ARASHIRO

Since 2013, Terrance Arashiro has served as only the 5th President of Austin, Tsutsumi and Associates, Inc. (ATA), a 90-year old kamaaina civil engineering firm established in 1934. After completing his B.S. in Civil Engineering from the University of Hawaii at Manoa in 1985, Mr. Arashiro earned project experience at Sam O. Hirota, Inc. and Wm. Dean Alcon & Associates, Inc. civil engineering firms before joining ATA in 1995 as a Project Manager, culminating in nearly 40 years of work experience within the local engineering community.



Some of Mr. Arashiro's earliest work experience has contributed to his perspectives of what should be instilled to being a well-rounded engineer. His first job was as a custodian in his church at age 14, while also working with his father, a middle school math teacher, during summer breaks renovating and painting homes. He says his dad was the hardest working person he knew and taught him how to approach any problem logically. Later, he gained his first engineering working experience through an internship and entry level position with Sam O. Hirota, Inc., where he enjoyed in-field work with survey crews, cutting lines and holding rods in deeply vegetated gulches and working on the master plan and design for the Hilton Hawaiian Village Resort's first major renovations which still stand to this day. He shared that the late Mr. Sam O. Hirota was the Territorial Engineer prior to statehood, and was an "engineer's engineer" who had an encouraging spirit to all staff. Eventually, moving to Alcon &

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2024 STUDENT ENGINEER OF THE YEAR

DYLAN SODETANI

The 2024 HCES Student Engineer of the Year is Mr. Dylan Sodehani! Well, there must be a mutation of the Covid virus going around as we have another perfect cumulative GPA of 4.00 and a major GPA of 4.00... Dylan is completing his BS EE under the systems and data sciences track and will graduate this semester. Of course, he's in the Honor's Program and on track for a MS EE, through the BAM (Bachelor's and Master's) program, in the following semesters. So, another 4.00/4.00 in engineering for all four years at UH Manoa!?! What is going on!?! By the way, he has been a UH Regent's Scholar and has made the Dean's List every semester that he has been enrolled at UHM! He is also a very proud alum of Pearl City High School!



While achieving this, Dylan currently is the President of HKN, the national electrical and computer engineering honor society, and an active member of the IEEE student branch.

Dylan formulated a strong interest in science and engineering well before he came to UHM. Through high school, his passion for STEM was built through participating in the math teams, the MATE underwater robotics competition teams, the HSSEF, and the civil engineering club and served as an ambassador for his Academy for Technology & Design. Above all, his participation in the Science Olympiad competitions fully cemented his passion for science and engineering. Besides earning 100+ medals in different STEM-based events at the state and national level,

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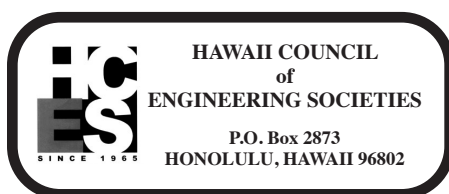
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WILIKI MAILING LIST

Additions and/or corrections to the Wiliki mailing list should indicate the proper society, institution or association. Corrections to email addresses should be submitted to your society coordinator.



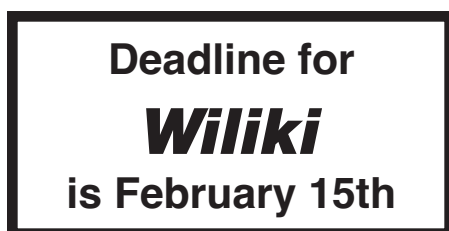
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Young Engineer of the Year, from Page 1

organizations including Special Olympics, Hawaii Food Bank, and those that expose youth to STEM and promote females in engineering. Nicole recently became involved with the joint American Water Works Association (AWWA) and Hawaii Water and Environment Association (HWEA) Pacific Water Conference as a member of the technical program committee.



HCES 2024 ENGINEERS WEEK BANQUET KEY NOTE SPEAKER

DR. KAREN MEECH



HCES's keynote speaker for the 2024 Engineers Week Banquet is Dr. Karen Meech, an Astronomer with the Institute for Astronomy at the University of Hawaii Manoa. As an Astronomer / Astrobiologist she investigates how habitable worlds form and explores the bigger picture of whether there is life elsewhere. She started her astronomical career investigating comets, which are icy leftovers from the birth of our solar system. She uses comets and other leftover pieces from our solar system's formation to understand how habitable planets are made.

Dr. Meech was a Co-investigator on three comet space missions: **Deep Impact**, **EPOXI** and **Stardust-NExT**. For all three of these missions, she coordinated the world's Earth-based and space-based observing programs. She is the principal investigator for the University of Hawai'i on the **NASA Astrobiology Institute's** lead team which focuses its research on "Water and Habitable Worlds".

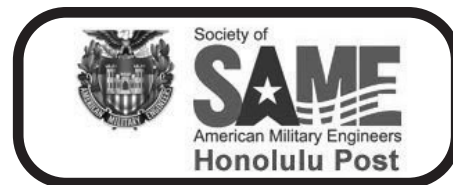
Her recent work has embraced the power of inter-disciplinary science, and she is combining geological field work, geochemistry, astronomical observations, theory, and space mission concepts to address fundamental questions about how Earth got its water. This includes the development of a Discovery class mission to explore water in our solar system's main asteroid belt.

She is also very active in professional-amateur collaboration and science teacher education and was the founder of the **Towards Planetary Systems (TOPS)** high-school teacher / student outreach program that helps educate science teachers in the Pacific islands. In her outreach activities she developed & secured funding for large outreach student/teacher enhancement programs for 360 high school teachers and students from Hawaii and Micronesia.

In 2018 Dr. Meech was a **TED Talk** presenter, where she talked about the historic discovery of the First Interstellar Object, which passed through our solar system in 2017 and was given the Hawaiian name Ou-mua-mua. She is now leading the teams observing and characterizing interstellar objects.

She obtained her BA in Space Physics from Rice University and her Ph.D. in planetary physics from MIT. After MIT she obtained a faculty position at the University of Hawaii's Institute for Astronomy in 1987 and is now the Faculty Chair. She has been the Principal Investigator for \$30 million in grants since arriving at UH. She has been the leader of conferences and workshops here and outside Hawaii.

Dr. Meech's most recent award was the **2023 Dannie Heineman Prize in Astrophysics** from the **American Institute of Physics**. Dr. Meech just returned from New Orleans where she was a speaker at the January 2024 meeting at the **American Astronomical Society**.



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SAME 2024 KICKOFF LUNCHEON KEY NOTE SPEAKER

REAR ADMIRAL MARC F. WILLIAMS
DEPUTY COMMANDER, NAVY CLOSURE TASK FORCE RED HILL



Rear Adm. Williams is a native of La Mesa, California. He is a graduate with merit of the U. S. Naval Academy where he earned a Bachelor of Science Degree in Ocean Engineering and commissioned in 1998. He also holds a Masters of Business Administration degree from the University of Cincinnati. He is designated a Seabee Combat Warfare Specialist, a licensed Professional Engineer in the state of Virginia, and a certified Six Sigma Green Belt. Williams affiliated with the Navy Reserve in 2006.

Williams' operational tours include assignments as engineering officer, Detail San Diego assistant officer in charge, and Air Detachment officer in charge, Naval Mobile Construction Battalion 3; officer in charge, Construction Battalion Unit 427; operations department, 1st Naval Construction Division; current operations officer, 1st Naval Construction Regiment; and executive officer, Naval Mobile Construction Battalion 27. His contingency tours include deployments in support of Naval Mobile Construction Battalion 3's mission with Joint Task Force Shining Hope and Task Force Falcon; 1st Naval Construction Regiment's mission with Operation Iraqi Freedom and Operation Enduring Freedom; and officer in charge, Cooperative Security in Jebel Ali, Arab Emirates.

His facilities and staff tours include assistant public works officer, Naval Base Coronado; assistant resident officer in charge of construction, Naval Base San Diego; staff engineer, U. S. Southern Command; staff engineer, Naval Facility Engineering Command Contingency Engineering Unit; and deputy chief of staff, Naval Facilities Engineering Systems Command Headquarters.

SCHEDULE OF HAWAII ENGINEERS WEEK EVENTS

Engineers Week is being observed February 18-24, 2024, the week of President Washington's birthday.

EWEEK KICK-OFF EXHIBIT

Monday, February 19, 10am to 2 pm. Public outreach event at Windward Mall. HCES welcomes you to help showcase science, engineering, math and technology by hosting an information table. Professional societies, government agencies and engineering-related companies are encouraged to reserve a table. Contact Kristen Yoshida (kyoshida@bowersandkubota.com) or Donna Kishi (dkishi@norman-wright.com) for more information.

KICK-OFF EVENT

Tuesday, February 20, 11:30 am to 1:00 pm, at Hale Koa.

Sponsored by the Society of Military Engineers and the Hawaii Council of Engineering Societies.

Speaker: U.S. Navy Rear Admiral Marc F. Williams; Deputy Commander, Navy Closure Task Force

To register: classic.same.org/honolulu.

ENGINEERING CAREER EXPO

UH College of Engineering Spring 2024 Career Expo, Friday, February 24, 2024, 1:00 to 4:00 pm, at the Campus Center Ballroom

AWARDS BANQUET

Saturday, February 24, 5 pm to 9:00 pm, at Koolau Ballrooms. Sponsored by the Hawaii Council of Engineering Societies.

Annual Engineers Awards:

2024 Engineer of the Year, Terrance Arashiro, P.E.

2024 Young Engineer of the Year, Nicole Nakaoka Imanaka, P.E.

2024 Student Engineer of the Year, Dylan Sodemani

2024 Lifetime Achievement Award, Frank Hermann, P.E.

Speaker: Dr. Karen J. Meech, Astronomer & Astrobiologist, Institute of Astronomy

To register, email kyoshida@bowersandkubota.com for registration form and online payment information. Checks will also be accepted.



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email: president.ascehawaiiyymf@gmail.com

EXECUTIVE COMMITTEE MEETING

Last held: January 9, 2024

Next meeting: February 5, 2024

ASCE HAWAII SECTION DINNER MEETING

We will keep you informed via e-blasts and/or notices posted on our website at ascehawaii.org with the meeting information and schedule.

Cost: (RSVP via Eventbrite)

COMMITTEE POSITIONS

ASCE Hawaii is looking for volunteers for various committee positions, including Advocacy Captain, Report Card Committee Members, and Water Resources Chairperson. If you are interested or have questions on any of these positions, please contact President Eric Tomishima, etomishima@ascehawaii.org.

MEMBERSHIP

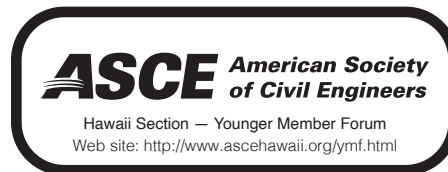
If you haven't already done so, please renew your ASCE membership, which includes 10 free PDHs. You can renew your membership at www.asce.org.

ASCE JOB LISTINGS

The following job listings are currently posted on the ASCE Hawaii Section website:

- **County of Hawaii, Department of Environmental Management Wastewater Division** (Civil Engineer I-IV)
- **Oceanit** (Civil Designer or Senior Civil Designer)

For further information, please visit <http://www.ascehawaii.org/job-listings.html>



2023-2024 YMF Officers

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YMF General Meeting

The next YMF general meetings will be in-person on Thursday, February 8, 2024, at 6:00PM and Thursday, March 7, 2024, at 6:00PM. Please check our website, social media channels, or weekly eblast for the latest information on our upcoming general meetings and events. If you are interested in attending and learning more about the various professional, social, and service opportunities available through YMF, please contact YMF at ymf.hawaii@gmail.com.

Kaha Native Plant Garden Volunteer Day at Kawaiui Marsh

By Meagan Nakamoto & Lauren Hill, Community Service Chairs

On Saturday, December 16, 2023, five members from the Hawaii Section ASCE YMF and two of their friends volunteered at the Kaha Native Plant Garden. YMF members learned about native Hawaiian plants in the garden, and about the Kawaiui Marsh Flood Control Project and how the marsh's hydrology has changed over time. YMF members worked

alongside other volunteers to help remove weeds and clean up the native plant garden. The gardening work was challenging but felt rewarding! Thank you to all the volunteers for coming out to help with this event and to Hui o Ko'olaupoko (HOK) for coordinating this event with the YMF.

"Kaha Native Plant Garden is a living example of how individual homeowners can help improve the local environment through the use of native vegetation and xeriscape gardens. The project replaced grass and invasive species along 150 yards of stream bank with native Hawaiian plants which can be used for soil stabilization, biofiltration, and water conservation."



HCES Lifetime Achievement Award, from Page 1

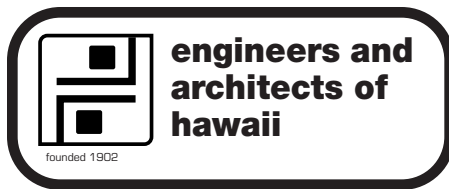
the existing airport on the edge of Kona. But Frank's recommendation for the Keahole site was approved. Due to minimal funds for design and construction, Frank, with an engineer from Bechtel, conceived the unique outdoor Kona Terminal buildings travelers enjoy today.

Keahole airport was the starting point for Frank's career in airport design throughout Hawaii and the Pacific. Next, he worked on the Reef Runway with Owen Miyamoto which reduced the need for planes to take off and land over Kalihi and downtown Honolulu. In community meetings his arguments for reduced airport noise with the building of the reef runway, resulted in community support for the project even to the point of hiring lawyers to argue in favor of the reef runway in a federal case in San Francisco that opposed the construction. The Reef Runway was the first airport project of its size to get formal environmental approval after submittal of the newly required Environmental Impact Statements (EIS) in the 1970's.

He guided the Reef Runway project from a concept through environmental planning, airfield layout, pavement strength and shore protection to become the World's first major runway built entirely offshore. The Reef runway opened in 1977 and was just recently repaved. He designed the improved drainage out of Keehi lagoon which had previously been dredged for seaplane operations for World War II. In Frank's words, the lagoon "was polluted and really a big mess". His design allowed for the natural mountain wash to flush the lagoon. Frank was involved with designs for Dan Inouye International Airport's Reef runway, 4-Right runway and other runways, taxiways, and airport aprons to be built for the next generation of "Heavy" aircraft i.e. 747's jumbo jets weighing one million pounds.

With the FAA and as a project manager with Parsons Hawaii, Frank led the development of airport facilities in Hawaii and across the Pacific. In Majuro he helped build an airport and terminal on a narrow strip of land on the atoll, which was between the ocean on one side and the atoll lagoon on the other side.

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An association for Hawaii's Engineers and Architects
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EAH February 2024 Wiliki Meeting Notice:

EAH meetings are held in Room 301 of the Topa Building Fort Street Tower and on Zoom - Noon to 1PM

Friday February 2nd

Speaker: Bob Sigall Eminent Speaker, Historian and Man For All Seasons

Topic: "The World As Seen From The Rearview Mirror"

Our speaker, Bob Sigall has spoken to EAH often times before, always with engaging, entertaining and humorous presentations. Today he will again share with us the wisdom he has gained looking back at what the moving finger has writ.

Friday February 16th

Speaker: Hans K Van Tilburg PhD

Maritime Heritage Coordinator Pacific Islands Region NOAA Office of National Marine Sanctuaries

Topic: "Ticking Timebombs? Potentially Polluting Wrecks of WWII"

Once again EAH is lucky to have marine archaeologist and underwater explorer Hans Van Tilburg bringing to us the exciting and challenging world of seafaring. On this occasion we will hear about those ships we saw sinking in the old war films and the oil still within them. What's the threat from that oil today? Hans is fresh back from an international conference in Jakarta, Indonesia, addressing that very question.

December 1st 2023 Meeting: Thirty Meter Telescope Engineering and Outreach

Speakers: Dr. Fengchuan Liu Astronomer & Project Manager TMT

Dr. Yuko Kakazu Astronomer & Public Outreach Specialist TMT

At the December 1, 2023, Engineers and Architects of Hawaii meeting Dr. Fengchuan Liu and Dr. Yuko Kakazu were in-person at EAH to present their work for the TMT. The engineering aspects of the project were covered, including adaptive optics to achieve orders of magnitude improvement to the best existing telescopes by correcting for atmospheric distortions. Mirrors of great dimensions and exceptional accuracy, and sensor assemblies of mammoth proportions several building stories in height. Despite the headwinds the project has encountered, about 82 percent of the subsystems off island are either in final design or in production with efforts of an international scope. About 80 of the 491 hexagonal mirror segments are polished, with the meticulous work ongoing.

The crown for most enormous telescope will likely go to a European project in the mountains

of Chile. The "extremely large telescope" will be thirty-nine meters in size. However, the TMT project on Mauna Kea would cover a different area of sky and be a complementary instrument in the current vanguard class of Really Big Telescopes.

Challenges to the project remain local community acceptance, which has been a focus of the team since highly visible protests to the project were made in 2015 and 2019. Alternate sites are possible, but unfavored due to the atmospheric conditions at Mauna Kea being undisputed as the most suitable on earth for astronomical observation.

The recently formed state agency Mauna Kea Stewardship and Oversight Authority (MKSOA) has taken over stewardship of the Mauna Kea summit area from the University of Hawaii, and currently is the final gatekeeper with the fate of the project dependent on their consideration for ultimate approval to use the site.

The project has recognized the existence of community relationship challenges and the time since the community protests has been spent by the TMT team engaging with the local community. The Team is taking a quiet approach including many one-on-one interactions with the intention to be non-adversarial and receptive to hearing concerns, with the hope that benefits arising from the project would reach a broader local community on the Big Island and within the State. More details on their efforts are available at their <https://www.tmt.org/website>.



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MATHCOUNTS Scorers

ASME is looking for volunteers to assist with scoring the MATHCOUNTS chapter competition on February 17, 2024 from 7:30 am to 12 Noon. Please contact Abel Siu-Ho at abel.siuho@hawaiianelectric.com for details if interested.

NEXT ASME GENERAL MEETING

Tentatively Friday, March 1st at 5:30 pm via Zoom. Please contact us for details at ASMEHawaii@gmail.com if interested.

REQUEST FOR SPEAKERS

ASME welcomes guest speakers to present any topic during our general meetings. If interested in presenting, please contact us at ASMEHawaii@gmail.com.

Student Engineer Of The Year, from Page 1

he served as the team captain, leading Pearl City to win their first-ever Science Olympiad State Finals Championship!!! Thus, over the past several years, Dylan has diligently worked

with the Hawaii State Science Olympiad (HSSO) director to help run the State finals tournament for the middle and high school divisions by organizing and managing the physics and engineering-related events. He is currently working towards organizing a Science Olympiad alumni association at UHM to bring together other motivated college students who are willing to volunteer their efforts to make the competition a success.

Taking his volunteer efforts further, Dylan has served as Hawaii's Elementary Science Olympiad tournament director since 2019. The program provides elementary school students an opportunity to compete in a wide array of STEM challenges ranging from testing their knowledge of planets to building the strongest tower out of pasta sticks. Every year, he has developed a catalog of science and engineering events for the tournament, organized competition venues and schedules, and interfaced with the teachers managing teams to provide them with the resources they need to fully support their students. It is important to note that he actually picked up this program when it was abandoned and has been working judiciously to deliver high-quality tournaments for hundreds of young students across the State. After each tournament, teachers have praised him for his impact on young students, and this fuels Dylan to do more!

Besides all the volunteering, Dylan has found time to develop his technical abilities through his work with the UH Manoa's Smart Campus Energy Lab (SCEL) since 2022. Through this lab, he has accumulated a strong understanding of embedded system design and PCB manufacturing through his work on the weather box project. This project develops sensor modules to collect weather data for generating forecasting algorithms that predict how much energy will be generated from renewable energy installations. His work has significantly progressed the communication capabilities and overall performance of the hardware of the modules and have served as the project lead for one of the hardware teams. In addition, he also served as SCEL's lab manager where he coordinated between sub-teams and organized all-hands meetings. Over the Summer of 2023, he has been transitioning from hardware development to the machine learning research. Under the guidance of Dr. Anthony Kuh, he has been investigating the foundational understanding of machine learning algorithms to aid his research efforts in federated learning and plans on utilizing machine learning as the main focus for his Honors undergraduate research and his future MS research.

Besides his volunteering and lab work, Dylan gained invaluable experience in industry through internships with Burns & McDonnell, which provided the opportunity to perform electrical design work for large-scale government facilities, and with Northrop Grumman, which provided experience with RF circuits for the electronics of protected satellite communication projects and provided an opportunity to learn and simulate critical transitions within the circuits and perform impedance matching to optimize the performance of the electronics. He is seriously considering returning to Northrop Grumman's RF & MS department to nurture and perfect his research curiosities.

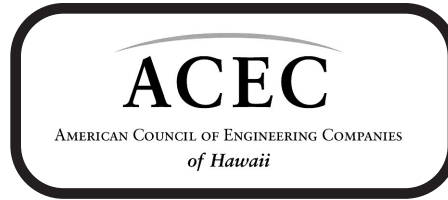
Engineer of the Year, from Page 1

Associates, he joined what would be a 3-man engineering company, doing all forms of work from field surveys and hand-plotting maps, to preparing invoices and managing clients. It was there that his understanding of what goes into running a business was honed. The company worked on a number of affordable housing projects for the Hawaii Housing Authority which helped shape Mr. Arashiro's understanding of serving communities with the most basic of needs, housing, and the sense of reward that it brought.

While much of his time today is focused on managing the ATA business, Mr. Arashiro is passionate about civil engineering, and continues to focus on all types of residential housing projects. His running joke or mantra (albeit true) is all civil projects start with grading and drainage. As he mentors other engineers at all levels, he remains actively involved in managing projects, most notably working on the Pulelehua and Honua'ula communities on Maui, the Rehabilitation of Streets and Complete Street projects for the City and County of Honolulu, and the Kukuiula development on Kauai. Within the walls of ATA, Mr. Arashiro is committed to fostering a strong company culture, building and growing a great staff of dedicated professionals. He participates in the company's Health & Wellness initiatives, ESOP activities and events, Olelo O ATA newsletter, and various outreach and Career Days. Under his leadership, ATA has received several top 3 company recognitions as Pacific Business News' Best Workplaces and Hawaii Business Magazine's Best Places to Work. He says, "The secret sauce is having a company of 'giving' people, and great people attract great people. It ultimately makes working at ATA highly rewarding."

Mr. Arashiro has served on the board of the American Council of Engineering Companies of Hawaii (ACECH), and currently serves the Employee Stock Ownership Program (ESOP) Association of Hawaii, the Board of Directors of Hawaii Baptist Academy, and his home church, Olivet Baptist. He has been recognized as a Hawaii Business News Black Book Top 250 Executive and Pacific Business News 40 Under 40 Honoree.

In his free time, Mr. Arashiro enjoys spending time with his grandchildren and family, volunteering with his church, skiing, golfing, surfing, painting, UH sports, and tinkering on home projects.



ACEC Hawaii

Website: www.acechawaii.org

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ACECH ANNOUNCES NEW EMERGING LEADERS PROGRAM COHORT #5

ACECH selected 18 members for the fifth cohort of its Emerging Leaders Program (ELP). "We are excited to launch another cohort of our flagship Emerging Leaders Program, and we welcome the 18 emerging engineering leaders to this year's cohort," said ACECH president, Kyle Kaneshiro.

Started in 2018 and modeled after the ACEC Senior Executives Institute (SEI), the program has since graduated 76 emerging engineering leaders in Hawaii representing 36 companies. The participants in this year's cohort will be featured in the next Wiliki. The first session begins on February 8 and will run through October of this year.

ACECH ENGINEERING SCHOLARSHIP

ACECH provides support to college students in Hawaii currently enrolled in an engineering program accredited by ABET. Those intending to pursue a career in engineering after graduation may qualify for a scholarship valued at up to \$1,000, applicable to the 2024 program year. To find out more and submit an application, please visit <https://acechawaii.org/acech-1000-engineering-scholarship/>.

HCES Lifetime Achievement Award, from Page 3

Unique was a Rain catchment system that was designed into the runway. Frank designed the shore protection of Kosrae Airport and later the designs for rebuilding the runway and terminal facilities. With the FAA in Pohnpei, he studied and recommended the location of the airport on an offshore island. He directed the designs for the runway, taxiways, terminal apron, and terminal. In Chuuk, he designed the new runway and terminal at the old Japanese coral runway. He included a runway turnaround which essentially allows for longer safer take-offs. In Guam he participated in the concepts for the new terminal layout and designed new taxiways and aprons. In Saipan, he helped design a new runway and the terminal to replace the World War II runway. In Yap he consulted in the early sight planning for the airport and later the airport apron repaving. In Palau, he consulted on the site planning and construction of the runway, taxiway, apron, and terminal and years later the rebuild of the runway. At Clark Air Base in the Philippines, he worked on building a new runway and the one of the first end around taxiways. He also consulted on the Taipei, Taiwan airport runways and taxiways.

At the age of 92, Frank is still an active contributing member on a number of national engineering society committees and attends via Zoom or in-person. Frank continues his active memberships in American Society of Civil Engineers (ASCE), Society of Military Engineers (SAME), Transportation Research Board (TRB), and the engineers and architects of Hawaii (eah).

Frank's overall breadth of work and his sustained engineering experience which he shared with others in his profession through his engineering societies and companies, clearly documents his lifetime achievements and contributions which have benefited and will continue to benefit Hawaii and the Pacific Islands. His work will allow the Pacific's airplane passengers and airport staff to travel and work efficiently and safely far into the future.

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