

CHAMBER OF COMMERCE HAWAII CONVENES ENGINEERING SECTOR PARTNERSHIP WITH BUSINESS CEOS, EDUCATORS, AND OTHER STAKEHOLDERS

The Chamber of Commerce Hawaii has an Engineering Sector Partnership, which is an employer-led and Chamber-convened initiative that continues to build a talent pipeline for local youth to enter the Engineering Field. The sector partnership has three targeted focus areas, each having a supportive workgroup to execute its initiatives. The workgroups include a Career Awareness workgroup for K-12 students to explore a career in engineering through work-based learning; a Women in STEM workgroup that seeks to build gender equity in the engineering sector; and a Math Readiness workgroup that promotes math literacy and preparation for a career in engineering. The Chamber's Education and Workforce Development team acts as a convener to support the work of the sector partnership. Through the sector partnership, the Chamber supports industry-led initiatives to build this important local talent pipeline.

Engineers Week

Earlier this year, the Engineering Sector Partnership had its second annual Engineers Week. The week included eight employer-led events and reached over 850 Hawaii Department of Education K-12 students. One example was the work of Community Planning and Engineering Inc., volunteering at three elementary schools including Iroquois Point Elementary, Waiahole Elementary, and Kaneohe Elementary. The engineers, who worked under the Math Readiness workgroup, led a math and engineering challenge where the students had to create a flotation device for a package of SPAM. This activity gave the students an insight into what a career in engineering would look like and also showed the students that math is fun. One teacher from Iroquois Point Elementary mentioned, "My students and I thoroughly enjoyed this experience. My students were asking when the

engineers were coming back on our walk back to the classroom."



During Engineers Week, students from Waiahole Elementary show off their winning SPAM flotation device with the Community Planning and Engineering Inc. engineers.

Additional employers led sessions via the work of the Career Awareness workgroup. Booz Allen Hamilton led Ewa Makai Middle School students in an Engineering Consultation project using Legos; MKE Associates LLC shared its experience and expertise with Castle High School; Bowers and Kubota engaged Campbell High School students with an all-day bridge-building contest that was centered around the Engineering Design Process; PacMar Technologies shared the innovative work they are doing with Waipahu High School students by leading an activity inventing something new with school materials. Engineers Week successfully engaged employers and students with career awareness and access. The Chamber is excited to support the sector partnership in scaling this initiative in the future.

Engineering Expeditions

The Engineering Sector Partnership worked together to bring Engineering Expeditions to high school and elementary school students. This included hands-on activities and site visits.

This past April, the Engineering Sector



At the Downtown High School Engineering Expedition, high school students used the engineering design process in a hands-on activity.

Partnership had its second Downtown High School Engineering Expedition, where students visited various downtown engineering firms to learn more about their possible future careers. Students from Waipahu High School, Campbell High School, and Castle High School participated in this event. WSP USA, Hensel Phelps, Booz Allen Hamilton, G70 WWSP, AECOM, and Swinerton graciously engaged with the students. The companies shared presentations of what it was like being an engineer in their company, gave the students a tour of their office, and engaged the students with hands-on activities. It was great to see the engineers and students actively engaging and interacting with each other. One student from Campbell High School stated, "The field trip was a unique and highly valuable experience for me. I have never visited any engineering companies or had any first-hand experience with what a career in engineering is like. This opportunity of having a field trip furthered my interest and gave me more confidence in

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Campbell High School students focus on an engineering activity led by Bowers and Kubota during Engineers Week.



High School students learned about different engineering firms during the Downtown High School Engineering Expedition.



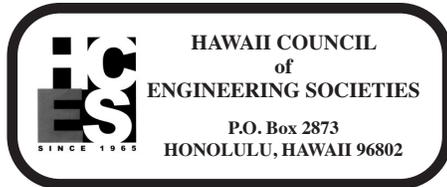
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Additions and/or corrections to the Wiliki mailing list should indicate the proper society, institution or association. Corrections to email addresses should be submitted to your society coordinator.



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Marites Calad, Josh Jackson, David Lebowitz, Samantha Nakamura, PE

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132 elementary school students smiled for the camera after a day of engaging in engineering activities during the Inaugural Elementary Engineering Expedition.

studying and pursuing a career in engineering.”

Later in April, the Engineering Sector Partnership also put on its inaugural Elementary Engineering Expedition at Campbell High School, where 4th graders from Iroquois Point Elementary and Kahaluu Elementary learned about engineering and participated in hands-on activities. Engineers from the Naval Facilities Engineering Systems Command (NAVFAC) Pacific Public Works, Grace Pacific Rocky Mountain Prestress LLC (GPRM), Bowers and Kubota, and Community Planning and Engineering participated in the event and acted as part-time teachers for the day.

The fourth graders learned key skills to become an engineer. The students began the day by participating in a math competition to illustrate the importance of math in engineering. The engineers then led the students in an activity where they had to build a mechanical claw and design it to complete certain tasks. The engineers showed the students how to use the engineering design process to help them be more successful in the activity. The students ended the day learning about different types of engineering as well as looking at local engineering projects that they could relate to.



At the Inaugural Elementary Engineering Expedition, engineers also taught students soft skills including a firm handshake and having confidence.

One Iroquois Point Elementary teacher stated, “My students really enjoyed the Elementary Engineering Expedition. They were actively involved in the learning and continued to talk about it a week later. It was a great opportunity for young students to see different aspects of engineering.”

Mana Wahine Engineering Panel

The Engineering Sector Partnership’s Women in STEM workgroup created the Mana Wahine Engineering Panel, bringing female engineers representing Hawaii’s top engineering firms together to hold panel discussions for

elementary and middle school students. It is their hope to inspire students, especially girls, to get involved in STEM activities and careers by seeing real-life examples of how the field can be exciting, lucrative, and fulfilling here on the islands. The Mana Wahine panel had its inaugural panel during STEMworks Introduce a Girl to Engineering Day and hopes to visit local middle schools to inspire young women to go into STEM during the next school year.

Ready to get involved?

The Chamber of Commerce Hawaii and the Engineering Sector Partnership are excited about all the excellent work already done and what is still ahead. Ready to get involved? The Engineering Sector Partnership has four quarterly meetings throughout the year where they share important action that has been happening in the sector, identify the barriers, and plan for joint efforts.

Be a part of this important work by marking your calendars for our next meeting via Zoom on Thursday, August 3rd from 3:00 PM – 4:30 PM. Please email sectorpartnerships@cochawaii.org to be added to the email distribution list.

This article authored by Keala Peters, Lord Ryan Lizardo, Katie Kaahanui, and Sophia Wibholm; Chamber of Commerce Hawaii; Education and Workforce Development Team



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www.aacehawaii.com

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As a member of the Board of the Council of Engineering and Scientific Specialty Boards (CESB), AACE International offers a range of certification levels from technician to professional to expertise level including CCT, CCP, CEP, EVP and PSP Certification Programs.

Congratulations to our newly elected 2023-2024 AACE Hawaii Section Board of Directors as listed above.

The local section, AACE Hawaii, was originally established in 1973. It achieved both the Platinum and Gold Award for seven consecutive years 2014-2023. Our local area continues to achieve CCP, CEP, CST and PSP certifications. For more information, please visit <http://web.aacei.org/certification> and our local website www.aacehawaii.com.



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EXECUTIVE COMMITTEE MEETING

Last held: June 6, 2023
Next meeting: July 6, 2023

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 Reyn Hashiro, rhashiro@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 HAWAII SECTION STUDENT SCHOLARSHIPS

Please help us increase our scholarship endowment so that we can recognize deserving students. We continue to accept tax-deductible donations with the goal of increasing the annual scholarships. Make your check payable to 'ASCE Hawaii Section' and include the note 'Walter Lum Scholarship Fund' and mail to: ASCE Hawaii Section, P.O. Box 917, Honolulu, HI 96808-0917. If you have any questions, please contact Steven Doo at sdoo@ascehawaii.org.

ASCE GOLF TOURNAMENT

The 20th Annual Scholarship Golf Tournament in Honor of Steve Fong will be on Friday, August 4, 2023. Registration is now open. Early registration closes on July 7. Deadline for all entries is July 22.

ASCE JOB LISTINGS

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

- Bowers & Kubota (Civil Designer I, Civil Designer II, Civil Designer III, Civil Engineer)
- Oceanit (Civil Designer or Senior Civil Designer)
- EnviroServices & Training Center LLC

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

ASCE OCEA NOMINATIONS REQUESTED

The ASCE Hawaii Section seeks nominations for the 2023 Hawaii Outstanding Civil Engineering Achievement (OCEA) Awards, which honors the best and the brightest achievements within the local civil engineering industry. Various awards will be given to projects that demonstrate innovative and outstanding civil engineering accomplishments by Hawaii's design and construction professionals. Nominations are due by Friday, August 4, 2023, to the ASCE Hawaii Section Awards Committee, nleong@ascehawaii.org, dnemoto@ascehawaii.org, & smukai@ascehawaii.org. The awards banquet will be held on Thursday, September 21, 2023, at the Ko'olau Ballrooms. We will be celebrating the 2023 OCEA nominees as well as recognizing winners from the past two years. For more information on nominations and the awards banquet, please visit <http://www.ascehawaii.org/>.



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YMF General Meeting

The next YMF general meetings will be in-person on Wednesday, July 5, 2023, at 6:00 PM and Wednesday, August 2, 2023, at 6:00 PM. 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 yfm.hawaii@gmail.com.

A/E Softball Tournament

By Matt Murakami, Softball Chair

On Sunday morning, June 11th, 2023, ASCE Hawaii YMF Softball team competed at the A&E Spring tournament at Kapiolani park. Members

Deadline for
Wiliki
is July 15th

got to get some sun, swing for the fences, turn left, and most of all had fun! Thanks to all that came out to play or cheer the team on! ASCE Hawaii YMF will also be playing in the upcoming A&E Summer Season! Everyone is welcome to play regardless of experience. If you are interested please contact softball.ascehawaiiyfm@gmail.com. Hope to see you on the field!

ASCE YMF Job Shadow Program

The Job Shadow Program is looking for students and industry professionals interested in becoming a mentee/mentor. Your interest and participation in this program will provide a valuable experience that will help guide students toward a successful path beyond graduation! If you have any questions and/or want to sign up*, please email the Job Shadow Program directly at yfmhawaii.jobshadow@gmail.com

*Note: Information collected will help the Job Shadow Program pair mentor(s) and mentee(s) up based on their experience and interest.

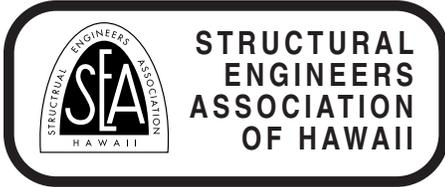
2023 PE Exam Update

The PE Exam is now computer-based, with appointments available year-round at Pearson VUE test centers. Information about how to register for the exam can be found on the YMF website: <https://ascehawaiiyfm.org/pe-exam-information>

Online PE Refresher Course

The Hawaii YMF has partnered with Pathceed, an online PE Exam refresher course that covers the breadth portion of the civil engineering exam. This course features 12-hours of on-demand course materials that may be accessed for a 6-month period and a one-time free access should you not pass the exam. Curious, but want a sample of the course? You can check out a free 1-hour lesson before committing to the program! The course cost is \$289, and we offer ASCE Hawaii YMF members a \$40 discount when registering. If you are interested in signing up for this course, please contact us at yfm808.pecourse@gmail.com for more information.





PO BOX 3348, HONOLULU, HI 96801
Web Page URL <http://www.seaoh.org>

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Previous BOD Meeting

June 5, 2023

Upcoming Events

For all events see seaoh.wildapricot.org. Look for email flyers for registration of upcoming events.

- SEAHO July Meeting – Wednesday, July 12, 2023. Presentation on Innovative Performance Corrosion Resistance Reinforcing Bars for Extending Service Life of Structures in the State of Hawaii by Ben Sadawi of Performance Reinforcing Steel.

2023 SEAHO Convention

SEAHO is partnering with the Structural Engineers Association of California (SEAOC) to host a joint convention on Maui scheduled for September 6 – 9, 2023 at the Hyatt Regency Maui Resort in Ka'anapali. Registration and room booking is now open. Please visit the SEAHO website at seaoh.wildapricot.org for additional information. Any questions, please contact Craig Meierhoffer at cmeierhoffer@baseengr.com.

2023 SEAHO Scholarship

SEAHO will be awarding scholarships to students entering or currently attending an accredited college or technical school as full-time students. A request for applicants and the scholarship application form has been posted on the SEAHO website.

2023 SEAHO Scholarship Golf Tournament

SEAHO is planning to hold the 11th annual scholarship golf tournament in October. Be on the lookout for a save the date flyer with more information.

SEAHO Board of Directors

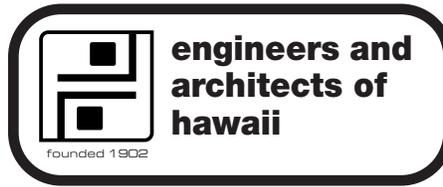
SEAHO is looking to fill spots for the 2024 Board of Directors. If interested in serving on this prestigious board, please contact Craig Meierhoffer at cmeierhoffer@baseengr.com.

Membership

The following membership application has been approved:

- Lisa Kim, Masonry Institute of Hawaii, Affiliate Member

Next Meeting on Wednesday, August 2, 2023. For information, contact SEAHO President Mike Greer at mgreer@wje.com.



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An association for Hawaii's Engineers and Architects

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Friday July 7; Speaker: Frank Hermann – Airport Engineer; Topic: Hawaii's Airports, a look back at their development.

eaH Emeritus Member Frank Hermann's talk will center on his long career working on Hawaii's airports. Frank Herman joined eaH in 1984 and could be joining our century group of members in just a few years. Frank has been living in Las Vegas for a number of years and attends various engineering conferences around the country. We have been seeing more of Frank thanks to our hybrid Zoom meetings. Join us and visit with Frank and his interesting stories on Hawaii's Airports.

Friday July 21; Speaker: Dr. Karen Meech - Institute for Astronomy; Topic: Visitors from Outside our Solar System

The discovery of the first interstellar object (Oumuamua, passing through the solar system in 2017) with the second one being discovered less than 2 years later has provoked intense, sustained interest. These objects provide clues to the planet formation process elsewhere. The characteristics of the second were quite different from what was expected from the first interstellar object (ISO) which was expected to look like a comet, but the second one, Borisov, did look cometary. Incorporating a diverse range of scientific disciplines, this discovery has really energized a new interdisciplinary awareness in the study of planet formation because ISOs enable the close-up study of material from other planetary systems. In this lecture I will share how these objects were discovered and characterized. I will highlight some of the remaining mysteries and controversies and what we can do in the future with regard to a space mission exploration of the next interstellar object.

Riding out Typhoon Sarah on Wake Island 1967

By: Martin McMorrow PE HI
Captain US Navy Retired
Past eaH President

In 1967, I was part of a federal team sent to Wake Island in response to a wrecked Standard Oil tanker. The SS RC Stoner had beached itself on the reef during a storm. Navy salvage vessels and a Navy Salvage Team arrived about the same time. The goal was to remove the ship and the 6 million gallons of aviation fuel onboard. However, before very much could be done, **Typhoon Sarah** hit the island with winds speeds of 140-mph. The 140-mph wind speed

was measured just before the anemometer blew off the terminal building roof. THEN the wind got bad! The typhoon winds tore the Stoner apart and all the fuel onboard washed or was sucked out of the tanks and was never seen again. We who fight the war on pollution do not adhere to "The solution to pollution is dilution". But this may have been a valid exception. After the storm, the ship was blasted to the waterline by the salvage team and is now part of Wake's unintended artificial reef system.

Typhoon Sarah was my first experience with storms that strong. The FAA was running the island in the 60's. I had checked with the safety officer, and he assured me that our quarters were designated "hurricane proof" by the FAA. He said if I was worried, I could take refuge in the concrete terminal building, but our wooden quarters would be safe. He added the safest place in our quarters was the bathroom because the walls are closer together and gave added strength and support. I decided to stick with my friends in their little duplex.

The typhoon really whipped that night. Our quarters were constantly bombarded all night with flying sheetmetal and empty oil drums. My two friends were both divers and they were both experienced with storms at sea. One laid down on his bunk and slept through the whole thing. The other was wide awake through it all because as he told me, "I have been on oceanographic ships when we measured wave heights over 100 feet". Wake's highest elevation was just 12 feet and that was the rubbish dump!

As the eye passed directly over the island everything stopped! As I was contemplating running to the terminal building for the second half, down the hall from the room next to the bathroom comes a little man. He has been there by himself in his closet with the doors shut for the last 4 hours. The wind was beginning to pick up and I suggested he stay with us. I pointed to the bathroom and told him how it was the safest spot in the building if things go bad. Unfortunately, the wind started shaking us again. As I pointed to the floor of the bathroom, the glass cover for the ceiling light came crashing down practically exploding at the spot I was pointing at. The little man quickly turned and returned to his closet, sliding the doors shut. I never saw him again.

The next day we were air evacuated off Wake. 150 people left on a Northwest 707 while myself and a lady with a little child left on a C-124. "Old Shaky", as she was called, can carry 100 troops plus a tank or two at about 250 mph with its 4 propellor engines at max power. Many hours later we landed at Hickam and were greeted on the ramp stairs by a corpsman asking if we needed a stretcher. Well, I think that's what he said. By that time, I had been deafened by the engines.

Years later, on a return trip to Wake, I learned that the quarters were now designated "Typhoon Resistant". Like a Seiko watch that sells as "Water Resistant" not "Waterproof".

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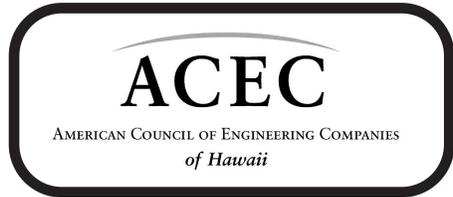
In June, we had our first hybrid meeting on Thursday, June 22, 2023. Peter Koonce, who is the Interim Director of the Traffic Systems and Operations Group at the City of Portland and also a candidate for the ITE International Board of Directors, did a presentation on Vision Zero and the MUTCD.

Save the date! Join us for a virtual meeting on July 19, 2023. Dr. Roger Chen from the University of Hawaii at Manoa will be doing a presentation on a pedestrian project that they've been working on. More information to be provided via email.

Registration for the 2023 Joint ITE International and Western District Annual Meeting on August 13-16, 2023 in Portland, Oregon is still open! This year's theme for the Joint ITE International and Western District Annual Meeting and Exhibition is Connecting People and Communities. This meeting will take place in the Oregon Convention Center (OCC) and its headquarters hotel, the brand new Hyatt Regency hotel, just across the river from

downtown Portland. The OCC and hotel are steps from Portland MAX light rail, convenient to many local and regional attractions, and a gateway to the Pacific Northwest, making it a great opportunity for both individual and family travel. For more information and registration, please visit <https://www.iteannualmeeting.org/>.

If you would like to be added to the ITE mailing list, please email Michelle Agustin Lindsey at magustin@wilsonokamoto.com.



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Website: www.acechawaii.org

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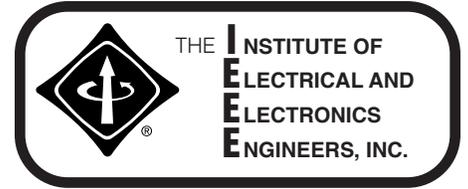
We would like to welcome our new Board of Directors.



2023-2024 Board of Directors at the 2023 ACECH Symposium

ACECH Updates

Visit us on our website to sign up for our monthly newsletters at www.acechawaii.org and follow us on our social networks @ACECHawaii on LinkedIn, Instagram, and Facebook for more ways to reach us and stay updated with upcoming events, programs and community support.



IEEE Hawaii Section

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 Student Rep: Gwyneth Raquepo
 HCSE Liaison: Eugene Chang

IEEE Seminar: Trustworthy Machine Learning (Free)

July 11, 5:30pm – 7:00 pm at Entrepreneurs Sandbox

Sponsored by:

O IEEE Signal Processing Society, Hawaii Chapter

O High Technology Development Corp (HTDC)

O Entrepreneurs Sandbox

O Hub Coworking

Abstract, Speaker's bio, and registration:

bit.ly/3J1r1l2



www.asme-hi.com

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