

## ASCE HAWAII SECTION 2021 Outstanding Civil Engineering Achievement Award Winners



The American Society of Civil Engineers (ASCE) Hawaii Section is pleased to announce the 2021 Outstanding Civil Engineering Achievement (OCEA) Award winners. The purpose of this award program is to recognize projects that demonstrate important outstanding civil engineering accomplishments by Hawaii's design and construction professionals. To be eligible, projects were required to have been designed or constructed in Hawaii and completed within the last two years. Some of the key judging criteria included: Resourcefulness in planning and solving design challenges; contributions to the well-being of people and communities; pioneering use of materials and methods; Innovations in construction; minimization of impact on physical environment; and composite application.

The following projects and project teams were honored and presented with awards at the ASCE Hawaii Section OCEA Awards Ceremony, held virtually on Zoom on Thursday, September 30, 2021. Congratulations to our winners!

### 2021 Hawaii Section Outstanding Civil Engineering Achievement Award and 2021 Best Building and Structural Systems Project

**Project Name:** Opaekaa Bridge Repair/Rehabilitation

**Project Owner:** County of Kauai, Department of Public Works

**Submitted By:** KAI Hawaii, Inc.

The project involved the replacement of the

Opaekaa Bridge which crosses the Opaekaa Stream on the Island of Kauai. This single-lane, 73 ft. long bridge may be the only remaining British-built bridge in the United States, with steel trusses originally forged by Alexander Findlay & Company in Motherwell, Scotland in 1890. The bridge originally spanned the Wailua River in 1896, then moved to its current location in 1919. The bridge utilizes a Warren pony truss, the only one of this type on Kauai besides the Hanalei River Bridge. The Opaekaa Bridge was listed on the State Inventory in 1983 and on the National Register of Historic Places in 1983, as a Category 1 bridge, meaning it is one of the most highly rated bridges on the island for its unique historical representation and atypical engineering characteristics.

The design was innovative in how the existing

damaged members were strengthened to the point where they could be reused and not discarded. The design intent was to add new steel pieces only where absolutely necessary and to blend the newer pieces with the original members to maintain the original look. The goal was to strengthen the damaged truss members so they could support themselves for a minimum of 75 years while maintaining as many of the original steel members as possible. KHPRC insisted that no member be completely replaced. Both the design and construction of the bridge was complex in that the designers had to conduct a very thorough assessment of each truss member, determine which members could be reused as-is, and which members had to be strengthened in some way. The designers researched bridge construction and techniques used at the time. The bridge was fabricated to replicate exactly the look and shape of the steel members and the method of riveting the individual members together.

The "new" Opaekaa Bridge will enhance the public awareness of what engineers can accomplish. The local community will appreciate their old-style bridge for many years to come. This project will provide future value to Structural Engineers and Historic Architects because it has proven what can be accomplished with proper planning and communication with all of the stakeholders.

### 2021 Best Large Project

**Project Name:** Lahaina Wastewater Reclamation Facility Stage 1A Improvements

**Project Owner:** County of Maui, Department of Environmental Management

**Submitted By:** Jacobs Engineering Group

This project involved the restoration of reliable capacity to 9.0 MGD average dry weather flow





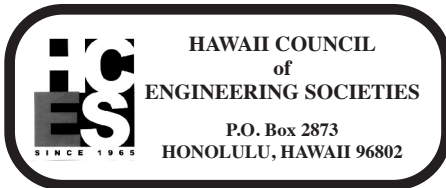
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**WILIKI MAILING LIST**

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.



HOME PAGE: [hceshawaii.org](http://hceshawaii.org)  
EMAIL: [hcesorg@gmail.com](mailto:hcesorg@gmail.com)

**2021-2022 OFFICERS**

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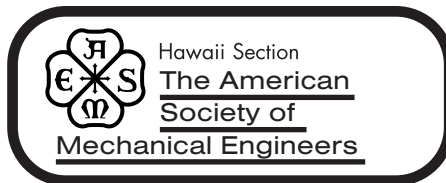


<http://www.hawaiiispe.org/>

**HSPE Officers for 2020-2021**

Acting Pres: Sara Doi  
[sdoi@bowersandkubota.com](mailto:sdoi@bowersandkubota.com)  
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Big Island Dir., NICET Chair '19-'20: Curtis Beck  
[curtbegood@mail.com](mailto:curtbegood@mail.com)

Nominations for the **Engineer of the Year** and **Young Engineer of the Year** candidates will be accepted the beginning of November 2021. Nomination forms will be available on the HCES website at <http://hceshawaii.org/> or by contacting Kurt Kunimune of HSPE at [kkunimune@bowersandkubota.com](mailto:kkunimune@bowersandkubota.com). The awardee will be presented at the Engineer's Week Banquet in February of 2022. Please contact Kurt Kunimune or HCES for nomination forms or with any questions. Please submit nominations to Kurt Kunimune by Monday, December 27, 2021. Mahalo.



[www.asme-hi.com](http://www.asme-hi.com)

**ASME-HI 2021-2022 Officers**

Chairperson: Derek Sato  
[derek.sato@hawaiianelectric.com](mailto:derek.sato@hawaiianelectric.com)  
Vice-Chair: Abel Siu Ho  
Secretary: Raymond Liu  
Treasurer: Kevin Dang  
[dangk001@hawaii.rr.com](mailto:dangk001@hawaii.rr.com)  
Member-@-Large: Shaun Idefonso  
Ed Chang

**ASME-HAWAII GENERAL MEMBERSHIP MEETING**

Date: October 29, 2021

As usual, all members, students and guests are invited and encouraged to attend our Zoom Conference Call meetings. Please contact Derek Sato for the link.

**GENERAL MEMBERSHIP MEETING September 24, 2021**

Our September Zoom Virtual meeting was held September 24, 2021 starting 5:05 PM (HST). Meeting was conducted by Chairperson Derek Sato with the following discussed:

- UHM DME Report by Dr. Woonchul Lee: Student Section membership is off to a very slow start. As of this meeting there are just three members who are also the officers.
- The Francis R. Montgomery Design Competition award tiers are still to be determined. Members will be given additional

time to consider the options and then vote during the next meeting. Considerations include reasonable prize monies making it worthwhile to the competing students while not adversely affecting the FRM fund. A Fall competition will again be included along with the usual Spring Competition. The Fall Francis R. Montgomery Design Competition is tentatively scheduled for December 10, 2021. Four teams will be competing. ASME judges are needed since Hawaiian Electric Company Mechanical Engineers may not be available.

• The speaker for this meeting was Kory Ikeda, Past-Chair ASME-Hawaii, District Director 2021-2022 of Toastmasters International, and Project Engineer with Hawaiian Dredging Construction Company. His presentation was titled the "Importance of Communication and Leadership Skills."

Zoom meetings have been occurring monthly with plans to continue into 2022.



**Hawaii Section 2021-2022 OFFICERS**

[www.aacehawaii.com](http://www.aacehawaii.com)

President: William Sparks  
Vice President: Christopher Baze  
Secretary: Mario Florez  
Treasurer: Jeanette Roberts  
Dir. Soc. Med.: Yong Shi  
Past President: Christopher Kanae

On September 24th, 2021, AACE Hawaii held a webinar – "The Technology Chessboard" presented by Mr. Garrett Harley at Oracle CEGBU (Construction and Engineering Global Business Unit). The webinar spoke about the technology "chessboard": how leading tech companies that serve our industry are moving toward fully interoperable smart platforms and ecosystems – with an eye on pragmatic steps that agencies and their supply chains can take in this direction. The webinar record has been published in AACE Hawaii Section website (<http://www.aacehawaii.com>)

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.

The local section, AACE Hawaii, was originally established in 1973. It achieved both the Platinum and Gold Award for seven consecutive years 2014-2020. 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](http://www.aacehawaii.com).



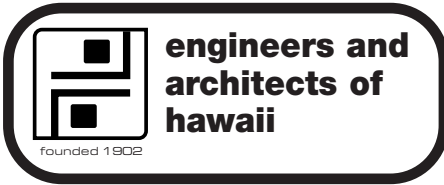
Website: [hawaii.apwa.net](http://hawaii.apwa.net)

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**Wiliki Advertisers Wanted**





**PO. Box 1901, Honolulu, HI 96805-1901**  
**An association for Hawaii's Engineers and Architects**  
**WEB address: [www.eahawaii.org](http://www.eahawaii.org)**

**EAH 2021 Officers**

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1st V. P.	Canaan Shon	845-3900
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EAH is currently only having Zoom Meetings until further notice.

Regular meetings are held 2 times per month on Fridays. Meetings start at NOON and have ended PROMPTLY at 1:00pm for over 119 Years.

Members, guests, and the Public are welcome to join EAH meetings. Email [eahawaii@gmail.com](mailto:eahawaii@gmail.com) to get the Zoom meeting links.

**November Program Chairs Maria Tome & Michael Angelo**

**Friday November 5th**

**Speaker: Dr. Kevin Davies, Assistant Researcher at the Hawaii Natural Energy Institute (HNEI)**

**Topic: "Review of Challenges and Opportunities in Electric Grid Distribution"**

Dr. Davies will summarize and provide insights into the aggressive integration and utilization of distributed energy resources (DERs) such as PV, batteries, and controllable loads in Hawaii and beyond. Specific topics will include the grid operational constraints associated with PV hosting, new technology for monitoring and controls at the distribution level, the role of DERs in providing grid services, and related research at HNEI.

**Friday November 19th**

**Speaker: Dr. George Poore – Retired Surgeon Jackson Hole, Wyoming**

**Topic: Covid 19 Vaccine Development and Timeline**

Dr. Poore is a retired surgeon living in Jackson Hole, Wyoming with interests in Virology and Epidemiology. He has followed and researched how the Covid 19 Vaccines were designed, developed, and tested in record time. He will talk about how prior work on the Coronaviruses family of viruses and how new mRNA vaccines were critical in the fast development and testing. He will explain how the various mRNA vaccines were designed in just days. He will also explain some of the myths surrounding the Vaccines.

**From: President Philip Blackman**

**The Following is a DRAFT Position Statement for "Save Ha'iku Stairs" has been submitted for eaH's membership and public comment.**

The engineers and architects of Hawaii (eaH) is in support of Preserving the Historic Ha'iku Stairs under Managed Access as recommended in the Final Environmental Impact Statement. Managed Access shall encompass the following minimum requirements:

- All Access to and from the trailhead shall be by official shuttle vehicles loaded and unloaded away from Ha'iku neighborhoods;
- Shuttle vehicle access to the trailhead shall be via the preferred old Ha'iku Road or other access road that avoids Ha'iku neighborhoods;
- 24/7 Security to prevent trespass through neighborhoods, the Ha'iku Stairs and Ha'iku ridge;
- A tiered fee structure for tourists and Kama'aina hikers;
- A limit of 80 hikers per day;
- Hiker groups escorted by official guides, who are trained in Ha'iku Stairs History, native and invasive plants, hiker safety, medical first aid and security;
- Hiker guides shall have secure communication with the operations office at all times;
- Responsible for maintenance and repair of the Stairs and Stair structure;
- Responsible for all costs for rescue and removal of hikers;
- Annual structural inspection of the Stairs by qualified structural engineer;
- Reserve fund for annual inspection and maintenance of connecting hiking trails.

**End of Statement**

**This year EAH is hosting selected**

**meetings edited to 30 minutes on Olelo Channel 53.** The Programs premiere on the 2nd Wednesday of the month at 6:00 pm and replay on Sunday's at 1:00pm. Visit the EAH Website for Olelo's On-line Links to the featured Programs

**Note: PBX21 convention has been moved to January 28,2022. EAH encourages interested students to apply for paid vendor apprenticeships during the week of the PBX21 convention!**

**Please submit inquires and comments to [eahawaii@gmail.com](mailto:eahawaii@gmail.com).**



**Hawaii Section Officers 2020-2021**

President	Samantha Nakamura, PE
Pres-Elect	Matthew Tio
Vice Pres	David Lebowitz
Secretary	Justin Choriki
Treasurer	Joshua McDonough

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 Chapter Technology Transfer Committee: Matt Tio  
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 Historian: Willie Diguc  
 Membership Promotion: Jeanessa Slaughter  
 Newsletter Editor: David Lebowitz  
 Chapter Programs: Les Taniyama & Marites Calad  
 Refrigeration: Josh Jackson  
 Research Promotion: Charles Chaloeicheep, PE  
 Student Activities: Eric Lum & Kelsey Koshi  
 Technology Transfer: Matt Tio  
 Webmaster: Kalani Castro  
 Chapter Electronic Communications: Diamond Pedro & David Lebowitz  
 Young Engineers of ASHRAE (YEA): Kelly Zheng  
 Sustainable Activities: Dan Mestas  
 Nominating Committee: Donna Kishi, Willie Diguc, Kevin Luoma



**HAWAII CHAPTER OFFICERS**

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 Coffman Engineers  
[bigtas@coffman.com](mailto:bigtas@coffman.com)  
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7 <sup>1</sup> / <sub>2</sub> " x 3 <sup>5</sup> / <sub>16</sub> " – (25□) (½ page) – \$160.00	4 <sup>7</sup> / <sub>8</sub> " x 2 <sup>5</sup> / <sub>16</sub> " (11□) \$72.00	
2 <sup>5</sup> / <sub>16</sub> " x 1 <sup>1</sup> / <sub>4</sub> " \$20.00		

The price for the ads will be based on a 1<sup>1</sup>/<sub>4</sub>" x 2<sup>5</sup>/<sub>16</sub>" module size which is 1/24th of the page, and be \$20.00 per month with a 15% DISCOUNT for a 6-MONTH RUN.



**2020-2021 ASCE Hawaii Section Officers**

- President: Dayna Nemoto-Shima, P.E.  
 email: [dnemoto@ascehawaii.org](mailto:dnemoto@ascehawaii.org)  
 Pres.-Elect: Clifford Lum, P.E.  
 email: [clum@ascehawaii.org](mailto:clum@ascehawaii.org)  
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 Past Pres.: Jason Kage, P.E.  
 email: [jkage@ascehawaii.org](mailto:jkage@ascehawaii.org)  
 YMF Pres.: Carly Kaneko, P.E.  
 email: [ckaneko@ascehawaiiyymf.org](mailto:ckaneko@ascehawaiiyymf.org)

**EXECUTIVE COMMITTEE MEETING**

Last held: TBD October 2021  
 Next meeting: TBD November 2021

**ASCE HAWAII SECTION DINNER MEETINGS**

The continued health and safety of our membership is our top priority and we will continue to monitor the COVID-19 pandemic. Future in-person ASCE Hawaii Section events, including our section dinner meetings, are still temporarily on hold. Zoom meetings will be scheduled in lieu of in-person meetings, date and time TBD. We will keep you informed via e-blasts and/or notices posted on our website at [ascehawaii.org](http://ascehawaii.org) when they will be scheduled. Please continue to stay safe, watch out for each other, especially our kupuna, and continue to be vigilant about best health practices.

NOVEMBER MEETING – Watch for an e-blast with information and a link to register for our next meeting.

Cost: None (RSVP via Eventbrite)

**ASCE's COVID-19 RESOURCES PAGE**

<https://collaborate.asce.org/covid-19/home>

Reminder that ASCE has launched a COVID-19 resources page with online tools and tips in one convenient place. The page includes links to free programs, training, and resources, the results of COVID-19 industry impact surveys, and relevant online discussions with fellow members. The page also offers several ways to work more effectively while at home and activities to take advantage of in the down time you may have – even fun things to do with the keiki! And don't forget that all members have 10 free PDHs! Now may be a good time to catch up on some of those technical on-demand webinars.

**COMMITTEE POSITIONS**

ASCE Hawaii is looking for volunteers for various committee positions, including History and Heritage Chairperson, 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 Dayna Nemoto-Shima, [dnemoto@ascehawaii.org](mailto:dnemoto@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](http://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 Eric Tomishima at [etomishima@ascehawaii.org](mailto:etomishima@ascehawaii.org).

**ASCE GOLF TOURNAMENT**

Save the date for next year's tournament, currently planned to be on Friday, Aug 5, 2022.

**ASCE JOB LISTINGS**

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

- **AECOM** (Civil Engineers II)
- **City and County of Honolulu** (Civil Engineer III, IV, V, Civil Engineer V (Geotechnical), & Electrical Engineer V)
- **Gray Hong Nojima & Associates, Inc.** (Junior Civil Engineer)
- **G70** (Civil Designer, Civil Engineer, Civil Project Manager, Construction Manager)
- **HDR** (Senior Civil Engineer, Project Manager, Senior Engineering Project Manager, Water/Wastewater Engineer)
- **Hawaii Housing Finance and Development Corporation** (Section Chief)
- **Kennedy/Jenks Consultants** (Project Manager, Honolulu Staff Engineer, Hawaii Staff Engineer)
- **Nagamine Okawa Engineers Inc.** (Structural Engineer)
- **R.M Towill Corporation** (Assistant Engineer I, Assistant Engineer II, Civil Design Engineer, Design Visualizer 3D Modeler)
- **SSFm** (Civil Engineer V, Structural Engineer IV)
- **Stantec** (Account Manager/Engineer-Water)

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



**2021-2022 YMF Officers**

- Claire Fukuoka, President  
[president.ascehawaiiyymf@gmail.com](mailto:president.ascehawaiiyymf@gmail.com)  
 Brandon Uejo, Vice President  
[vicepresident.ascehawaiiyymf@gmail.com](mailto:vicepresident.ascehawaiiyymf@gmail.com)  
 Lance Lam, Treasurer  
[treasurer.ascehawaiiyymf@gmail.com](mailto:treasurer.ascehawaiiyymf@gmail.com)  
 Rebecca Pitts, Secretary  
[secretary.ascehawaiiyymf@gmail.com](mailto:secretary.ascehawaiiyymf@gmail.com)  
 Carly Kaneko, Past President  
[pastpresident.ascehawaiiyymf@gmail.com](mailto:pastpresident.ascehawaiiyymf@gmail.com)

**YMF General Meeting**

The next YMF general meeting will be on Wednesday, November 3, 2021 at 6:00 PM via Zoom. Please send your RSVP to [yymf.hawaii@gmail.com](mailto:yymf.hawaii@gmail.com); details will be distributed to those who RSVP prior to the meeting. Please be sure to check out our website and social media channels for the most updated information on our upcoming 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 [yymf.hawaii@gmail.com](mailto:yymf.hawaii@gmail.com).

**YMF Contact List Update**

The Hawaii YMF has recently updated the contact list with new email addresses for all YMF officers and committee chairs! Please visit our website at [www.ascehawaiiyymf.org](http://www.ascehawaiiyymf.org) for a complete listing of all updated email addresses.

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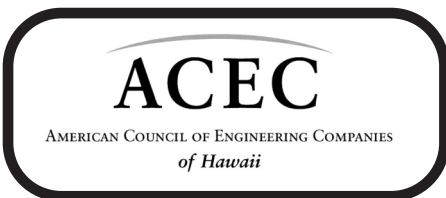
**2020-2021 Officers:**

President: Kelly Akasaki  
*Kelly.akasaki@honolulu.gov*  
 Vice Pres.: Jasmine Teramae-Kaehuaea  
*jkaehuaea@atahawaii.com*  
 Sec/Treas: Keoni Wasano  
*keoni@goldwings-supply.com*

The ITE Hawaii section held a virtual meeting on September 22nd. We heard from Aki Marceau, Director - Electrification of Transportation with Hawaiian Electric Co. (HECO). Aki's presentation focused on their current initiatives to shift toward clean energy and electrified transportation. They are working with several public and private entities to support the new electric buses, electric fleet vehicles, improve the state's electrical infrastructure, and update their 10-year strategic roadmap. She also demonstrated how the Charge Up Hawaii website allows for public input to make sure EV charging stations are reliable, conveniently located, and accessible to everyone.

On October 27th, the section held their 2021 Annual Meeting featuring Nicola Hedge, Deputy Director, and Alex Yee, Coastal and Water Program Manager, from the Office of Climate Change, Sustainability and Resiliency. They shared the latest about transportation-related actions in the newly-adopted Oahu Climate Action Plan (CAP) as well as plans underway to build resiliency of our communities and infrastructure to the local impacts of climate change, as they relate to the transportation sector.

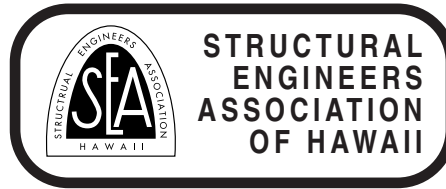
If you would like to be added to the ITE mailing list, please email Keoni Wasano at [keoni@goldwings-supply.com](mailto:keoni@goldwings-supply.com).

**ACEC Hawaii**

Website: [www.acechawaii.org](http://www.acechawaii.org)

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 Clifford Lau  
 Secretary: clau1@honolulu.gov  
 Treasurer: James Aoki  
*james.m.aoki@usace.army.mil*

**Upcoming Events**

For all events see [seaoh.org](http://seaoh.org) or email flyers.

**SEAOH Annual Scholarship Golf Tournament**

The Annual Scholarship Golf Tournament will be postponed until further notice. Updates will be provided to the membership via email.

**Education Committee**

We are currently looking for an individual to serve as Education Committee Chair. If interested, please contact a current board member for more information.

**2022 Board of Directors Nominations**

We are currently accepting nominations for the 2022 Board of Directors. If interested, please contact a current board member for more information.

**Next Meeting** on Wednesday, November 3, 2021. For information, contact SEAOH President John Uno at [john@mkellc.com](mailto:john@mkellc.com)

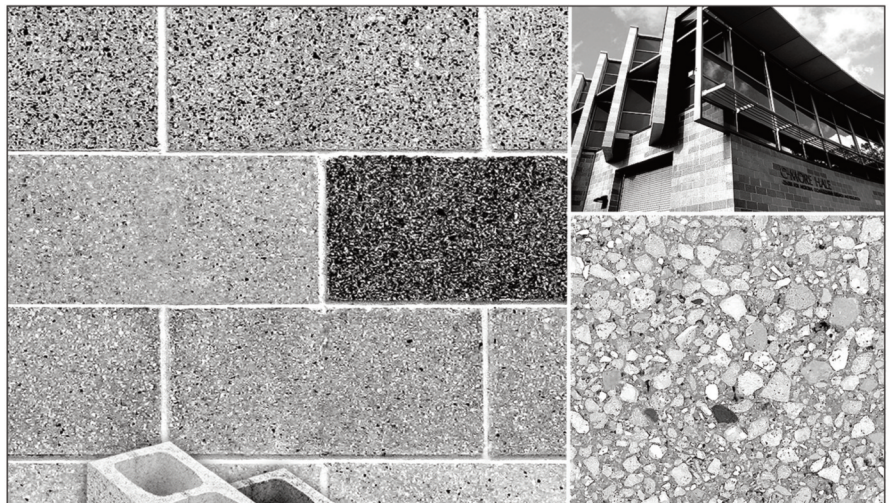
**ASCE YMF, from Page 4****Online PE Refresher Course**

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? There's a free 1-hour lesson you can check-out before committing to the program!

Cost of the course is \$289 and we are offering ASCE Hawaii YMF members a \$40 discount when registering. If interested in signing up for this course, please contact Nicole at [yfmf808.pecourse@gmail.com](mailto:yfmf808.pecourse@gmail.com) for more information.

**Honolulu Zoo Community Service Event**

On Saturday, September 25th, ten YMF members volunteered for a small, in-person community service event at the Honolulu Zoo. The team spent the morning "beautifying" the Zoo. YMF members helped to remove weeds and excess vegetation from fencing and landscaped areas, while enjoying a live musical performance by The Royal Hawaiian Band. After the event, the group enjoyed a delicious and well-deserved lunch from KYM Bento. This volunteer event was a great way to give back to the community and gave YMF members the opportunity to get their hands dirty!



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**ASCE OSCEA, from Page 1**

and accommodation of the maintenance of the existing Flexible Aeration Basin and Conventional Aeration Basin without relying on the aging 1975 plant, which is currently out of service. A new step-feed aeration basin was added, as well as process automation and an additional final clarifier with associated return and waste activated sludge pumping. This project also aimed to meet current discharge permit limitations and improved process treatment reliability for producing R1 reuse water for various users in the community.

**2021 Best Water/Wastewater/Environmental Project**

**Project Name:** Waianae WWTP Digester Rehabilitation and Biosolids Management Project

**Project Owner:** City and County of Honolulu

**Submitted By:** Kennedy/Jenks Consultants, Inc.

The goal of the project was to upgrade the existing solids digestion and dewatering facilities and improve the overall solids management process at the WWTP. The key elements of the digester project included: new covers, a new mixing system, a replacement gas management train, and flare replacement. The key elements of the solids dewatering project included new dewatering screw presses and an improved system for filling the storage bins with the dewatered solids. The result of this project was an average of two and a half tons less water hauled to H-Power for disposal every day; 13,000 cubic feet per day less methane released into the atmosphere and 18,000 fewer KWH of power used annually for dewatering operations.



**2021 Best International Project**

**Project Name:** The Tsubaki Tower

**Project Owner:** PHR Ken Micronesia, Inc.

**Submitted By:** BASE

The Tsubaki Tower is a 26-story, 476,000 SF luxury hotel with 325 guest rooms. The tower is situated on an escarpment overlooking Tumon Bay in the U.S. territory of Guam. Guam is home to one of the harshest building environments in the world, and it faces the dueling hazards of frequent and intense earthquakes and a high frequency of tropical cyclones. The Tsubaki Tower was the first performance-based design project administered through the Guam Department of Public Works. The performance-based design revealed minimal changes were required to meet the desired performance under the Maximum Considered Earthquake (MCE) level. For Tsubaki Tower, wind loads exceeded design seismic loads by far and wind story shears were generally over half of MCE story shears, which are conditions not typically found in other high seismic zones in the U.S. The Tsubaki Tower now stands finished and open to the public, ready and waiting for the full brunt of Guam's burgeoning tourism to return and prepared to protect its inhabitants and

withstand the many anticipated extreme conditions over its lifespan.



**2021 Best Studies and Research Project**

**Project Name:** Hawaii Cesspool Conversion Technologies and Finance Research

**Project Owner:** State of Hawaii, Department of Health, Wastewater Branch

**Submitted By:** Carollo Engineers, Inc.

Throughout the State of Hawaii, there are approximately 88,000 cesspools, releasing an estimated 53 mgd of wastewater to the environment. Given that over 90% of the State's drinking water supplies are from groundwater sources, cesspools pose a potential environmental and public health risk. This project included two types of evaluations: 1) cesspool conversion technologies and 2) cesspool conversion financing/funding. Some of the key findings and recommendations included: further evaluation of septic tank systems to provide direction on situations where septic tanks may or may not be cesspool conversion options depending on local site conditions; developing a coordinated strategy for methods of conversion to help homeowners understand their options; revising technology review and approval processes to incorporate best practices and lessons learned from other states; coordinating State legislative efforts to establish and facilitate a cesspool conversion program; identifying viable financing mechanisms and administrative resources; coordinating with and leveraging federal, state, and local entities to support conversions; and determining methods to equitably distribute financial aid.

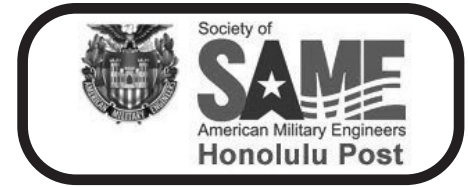
**2021 Best Humanitarian Project**

**Project Name:** Koae Workforce Housing Development

**Project Owner:** Mark Development, Inc.

**Submitted By:** Bow Engineering & Development, Inc.

The Koae Makana Workforce Housing project is an affordable housing development located in Koloa, Kauai. With the growing need for affordable housing, the County of Kauai selected Mark Development to construct a



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**SAME Honolulu Post 2021 Pacific Industry Forum and Scholarship Golf Tournament**

The SAME Honolulu Post 2021 Pacific Industry Forum was held virtually on September 28, 2021 at the Ala Moana Hotel, and simulcast live on Microsoft Teams Live. More than 170 participants from Hawaii, Guam, and the U.S. Mainland met together virtually for program briefings, keynote addresses, and small business networking.

This year we also held a Scholarship Golf Tournament at the MCBH Kaneohe Kipper Course on September 29, 2021. More than 75 individuals participated and enjoyed a beautiful trade wind afternoon on the links after a brief rainy start.

The keynote address included a panel of top military speakers (NAVFAC Rear Admiral Dean VanderLey, OSD Construction Seth Cutler, and USACE Brigadier General Kirk Gibbs) facilitated by Sal Nodjoman. The session consisted of in-depth discussion of the Department of Defense Pacific Deterrence Initiative and alternative delivery methods.

In addition, speakers from the US Air Force, USACE Pacific Ocean Division, NAVFAC Pacific, INDOCOM, and US Marine Corps Base Hawaii discussed their upcoming opportunities for the A/E/C industry. Small business representatives from NAVFAC Pacific, USACE Honolulu District, and Military Affairs Council provided an overview of their capabilities and services.

SAME Regional Vice President, Brian Duffy, attended in person from Alaska and shared some insight on the 2025 SAME Strategic Plan.

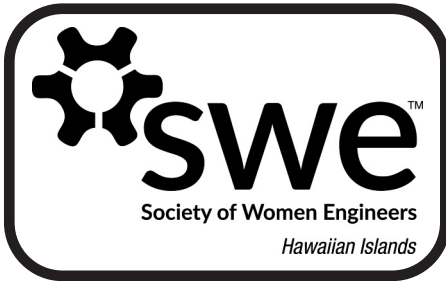
Proceeds from the forum and golf tournament help support SAME Honolulu Post's scholarship programs, construction camps, and youth outreach programs for Hawaii students pursuing their education in engineering or architecture.

The SAME Honolulu Post 2022 Pacific Industry Forum will be held in mid-September 2022. It will be an informative event with excellent networking opportunities. Please mark your calendar so you may be able to join us.



**ASCE OSCEA, from Page 6**

community that addressed the needs of the workforce and their families. This 134 unit, one-to-three-bedroom development was constructed on 11 acres of lush landscape next to Waikomo Stream. Spread out over 23 two-story buildings, the property also includes ample tenant and guest parking, a playground for the keiki, and a community center to support family activities. The project site was determined suitable due to its central location with a close commute to job centers, schools, shopping, and established residential communities. Adam Roversi of the Kauai County Housing Agency is quoted saying, "This much-needed and highly-anticipated project for our South Shore residents has proven to be worth the years of planning, hard work and leadership of our county and partners. The project is a great addition to the community, and we are exceedingly happy with the finished homes."

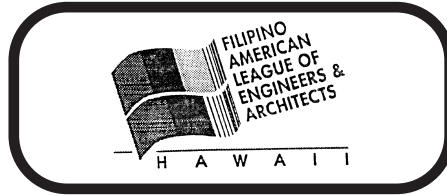


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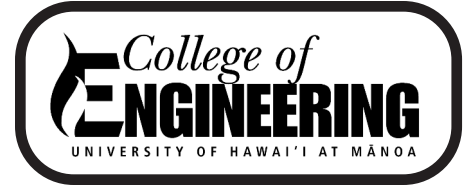


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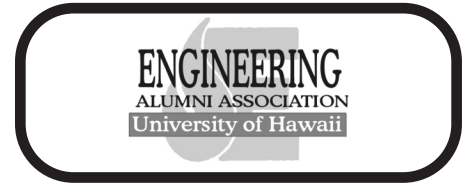
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