

UHM ROCKET TEAM EARNS 2ND PLACE IN NATIONAL COMPETITION



University of Hawai'i at Mānoa's **Team Hōkūlele** won second place in the **Friends of Amateur Rocketry (FAR) 1030** Competition on June 5. The team members from the College of Engineering successfully launched their 15-foot rocket and payload in the national competition in Mojave, Calif.

The students launched their rocket called **Kuamo'o (Milky Way)** in the competition's 30,000-foot category, a cruising altitude for some commercial airplanes. Seven other teams competed in the 30,000-foot division.

"Absolute chicken-skin moment that has me both nervous and excited. When I saw the rocket gain altitude, I knew that all of our hard work had paid off," said **Kailer Okura**, Team Hōkūlele member.

Kuamo'o was the first two-stage/motor rocket for Team Hōkūlele, which was established in 2019. The rocket reached a height of approximately 30,000 feet and protected its components from liftoff to touchdown. The team also created a radio-controlled rover capable of traveling a distance of at least 10 feet after touchdown.

The students ran into several issues with their rocket leading up to the competition, however, they were able to solve all of them before the launch. "I was relieved that everything fired as expected, the two stages separated as expected, and all the recovery systems deployed as expected," said **Leah Toma**, Team Hōkūlele member. "I'm really glad that

everything else went much better than we had expected and was recovered in really good condition."

Vertically integrated project



Team Hōkūlele is part of **UH Aerospace Technologies**, a Vertically Integrated Project (VIP). VIPs are uniquely designed to include

faculty mentors, graduate student researchers and undergraduates from freshmen to seniors. The more experienced members mentor newer members, passing down their knowledge and expertise, and the process repeats itself annually.

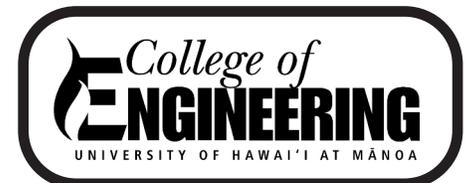
The team comprises two separate groups: VIP students and students from a **Department of Mechanical Engineering** senior design course. They are mentored by UH Mānoa's **Hawai'i Space Flight Laboratory** Specialist and Project Manager **Trevor Sorensen**, Assistant Specialist and Deputy Director **Miguel Nunes**, Hawai'i Space Grant Consortium Rocketry Coordinator **Jacob Hudson**, AeroPAC President **Jim Green** and ARLISS Coordinator **Becky Green**.

Team Hōkūlele received approximately \$19,500 in funding and support from several organizations, including the College of Engineering, Engineers Council of the University of Hawai'i, RM Towill Corporation, Fiberglass Hawaii, Pacific Instruments, 'Iolani School, Coffman Engineers, Hawaiian Dredging and Universal Manufacturers. Pacific Air Cargo also offered to transport the rocket from Hawai'i to California and back.

This project is an example of UH Mānoa's goals of **Excellence in Research: Advancing the Research and Creative Work Enterprise (PDF)** and **Enhancing Student Success (PDF)**, two of four goals identified in the **2015-25 Strategic Plan (PDF)**, updated in December 2020.

This article reprinted with permission from UH News, June 7, 2021.

Related *UH News* story: Engineering students prep rocket to launch in national competition, May 30, 2021.



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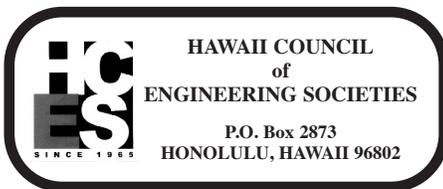
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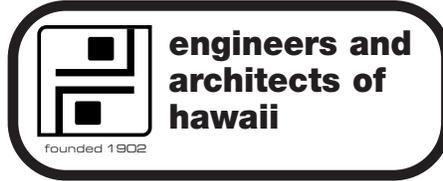
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EAH is currently only having Zoom Meetings until further notice.

Regular meetings are held 2 times per month on Fridays. Meetings start at NOON and have ended PROMPTLY at 1:00 pm for over 110 years.

Members, guests, and the Public are welcome to join EAH meetings. Email eahawaii@gmail.com to get the Zoom meeting links.

July Programs

See EAH Website eahawaii.org

Friday July 9th and Friday July 23rd

EAH hosted the below meeting in June Programs

Friday June 18 Meeting

Speaker: Barbara Shideler AIA, Mason Architects Inc

Topic: Preserving Plantation Housing in Hawai'i

Barbara returned to EAH to talk about her work Preserving Plantation Housing and the article on this subject which will be published in "Architectural Conservation in Australia, New Zealand and the Pacific Islands. The article was edited by John H. Stubbs with the World Monuments Fund. Barbara is Principal & Historical Architect with Mason Architects. Her first preservation project, as a university student, involved the restoration of the Taman Ujung Water Palace in Bali.

Friday June 25 Meeting

Speaker: William Brooks, VP Ferraro Choi
Topic: "A Short History: How Ferraro Choi Became Known for Sustainable Design"

Bill talked about how his and Joe Ferraro professional histories shaped the firm's sustainable focus. He discussed 9 key projects from 1982 to 2020 that shaped their focus. Mr. Brooks is well known for his sustainable and educational work in Hawaii. He was Principal in Charge and Architect of Record for the Hawaii Gateway Energy Center, which in 2005 became one of the world's first projects to achieve LEED Platinum certification. His current projects include the new Honolulu Middle School. The Kekelaokalani Learning Center at Kamehameha School's Kapalama Campus, and the Ka Umeke Kao Charter School in Hilo.

This year eAH is hosting past meetings on Olelo Channel 53.

The 30 minute Programs air on Wednesday, June 9 at 6:00 pm & Sundays, June 13 – July 4 at 1:00pm. Visit EAH Website for Olelo for On-line Links to these Programs:

Restoring Lehua Island; China Clipper Inaugural Passenger Flight 1936; Haiku Stairs History; Subterranean Robot Challenge; 52 Years of Architecture - Geoffrey Paterson; Dan Eckert Photographer - Topic Hyperlapse.



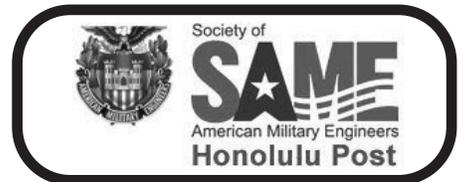
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As a member of the Board of the Council of Engineering and Scientific Specialty Boards (CESB), AACE International offers a range of certification levels from technician to professional to expertise level including CCT, CCP, CEP, EVP and PSP Certification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

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.



P.O. Box 31218, Honolulu, HI 96817
Web page: www.samehonolulu.org

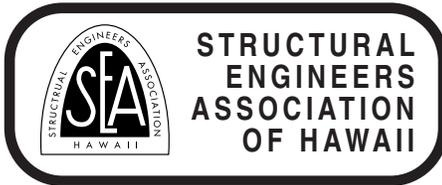
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2021 SAME Honolulu Scholarship Program

The 2021 SAME Honolulu Post Scholarship Program is now accepting applications. **Application deadline is July 16, 2021.** Applicants must be accepted into a College of Engineering or School or Architecture at a 4-year university with an accredited Engineering or Architecture program. 4-year scholarships worth \$6,000 are available to current high school seniors entering their freshman year of college and 1-year scholarships worth \$1,500 are available to continuing college students.

For more information on the 2021 scholarship program categories, eligibility, and scholarship application submittal requirements, download the 2021 SAME Honolulu Scholarship Application at www.samehonolulu.org. For any questions or inquiries, contact Jennifer Kamo at Scholarship@samehonolulu.org.



PO BOX 3348, HONOLULU, HI 96801
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Upcoming Events

For all events see seaoh.org or email flyers.

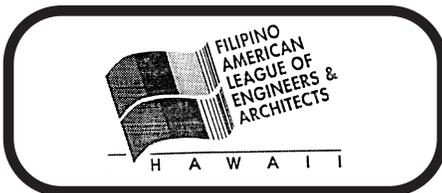
SEAOH Annual Golf Tournament

- Annual golf tournament is scheduled for October 22nd.
- Be on the lookout for the SEAOH scholarship application form that will be posted on the website soon.

Membership Applications

Application from Jose Mandawe for Associate Member was approved.

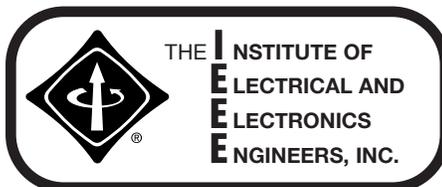
Next Meeting on Wednesday, July 7, 2021. For information, contact SEAOH President John Uno at john@mkellc.com.



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The ITE Hawaii Section held a virtual meeting on Wednesday, June 23rd. We heard from Mark Spencer, a Senior Principal and Vice President at W-Trans: California Traffic Engineering Consultants. W-Trans worked with the City of Menlo Park to complete their Transportation Master Plan which outlined a multimodal vision for its future mobility by identifying projects, priorities, and strategies for moving forward. Mark's presentation covered lessons learned and how the integration of policies, funding mechanisms, and public engagement elevated a list of projects into a plan that could be implemented.

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

UH engineering student awarded by Kingdom of Saudi Arabia

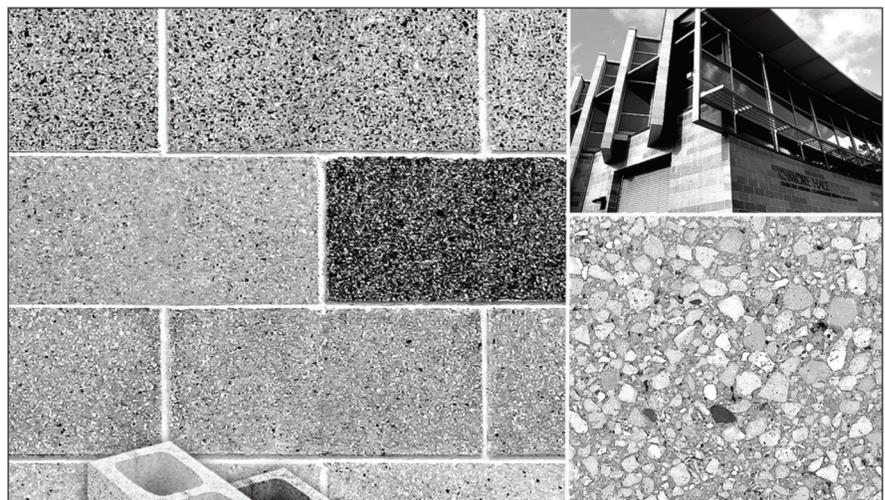
CEE Ph.D. student Abdulrahman A. Alghamdi is the recipient of a scholarship from the Government of Saudi Arabia. The Kingdom of Saudi Arabia provides this scholarship to Saudi students who have successfully completed the first semester of a Ph.D. program (9 study units) with a GPA of 4 out of 4, in the major of medicine, engineering or qualitative scientific research as determined by the Saudi Ministry of Education. This scholarship is managed and administered by the Cultural Mission of the Royal Embassy of Saudi Arabia (SACM) and has the following benefits:

It provides tuition funding to the sponsored student from Spring 2021 to Spring 2023.

The scholarship covers the full tuition and other relevant required academic fees.

The scholarship provides full and comprehensive health insurance (medical and dental) with no deductible to the student and their family.

Abdulrahman received both his BSCE (Fall 2018) and MSCE (Summer 2020) from the Dept of Civil and Environmental Engineering at UH Mānoa. Currently, Abdulrahman focuses his Ph.D. study on Connected Automated Shared Electrified (CASE) Infrastructure Planning under the guidance of Prof. Guohui Zhang. Abdulrahman currently serves as president of the UH Student Chapter of the Institute of Transportation Engineers (ITE). Congratulations to Abdul!



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EXECUTIVE COMMITTEE MEETING

Last held: June 9, 2021
Next meeting: July 8, 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 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.

JULY MEETING – TBD – Information to be sent by email.

ASCE Hawai'i Section 2021 Outstanding Civil Engineering Achievement Awards

CALL FOR NOMINATIONS & AWARDS BANQUET ANNOUNCEMENT

The American Society of Civil Engineers (ASCE) Hawai'i Section seeks nominations for the 2021 Hawai'i 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 those projects that demonstrate innovative and outstanding civil engineering accomplishments by Hawai'i's design and construction professionals.

Nominated projects and research/studies will be considered for eleven award categories. A select panel of judges will determine the applicable award category for each nomination. Awards may be given in all categories if a sufficient number of worthy nominations are received. Only one project will be selected as the overall winner, and recognized as the 2021 Hawai'i Outstanding Civil Engineering Achievement Award Winner.

- Best Large Project (Construction value >\$10 Mil)
- Best Medium Project (\$2 Mil < Constr. Value <\$10 Mil)
- Best Small Project (Construction value <\$2 Mil)
- Best "Green"/ Sustainable/ Envision Project
- Best Transportation Project
- Best Water/Wastewater/ Environmental Project
- Best Building and Structural Systems Project
- Best Studies and Research Project

GOLF TOURNAMENT

The 14th Annual Scholarship Golf Tournament in Honor of Steve Fong will be held on **Friday, August 6, 2021**, at Pearl Country Club. Deadline to register for the tournament is July 23, 2021 (early registration closes July 9, 2021). For more information, please contact Ms. Lori Fong at 955-4441 or Ms. Emi Kiyoi at 382-6717. Registration forms have been mailed directly to members.

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. If you are interested or have questions on any of these positions, please contact President Dayna Nemoto-Shima, 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.

ASCE HAWAII SECTION STUDENT SCHOLARSHIPS

Please help us increase our scholarship endowment so that we can recognize

- Best Special Project
- Best Humanitarian Project
- Best International Project

ELIGIBILITY AND JUDGING CRITERIA

To be eligible, projects must have been designed or constructed in Hawai'i and completed within the last two years. The judging panel will award projects and research that demonstrate important and outstanding civil engineering accomplishments. Some of the key judging criteria include:

- Contribution to the well-being of people and communities
- Resourcefulness in planning and solving design challenges
- Pioneering in use of materials and methods
- Innovations in construction
- Minimization of impact on physical environment
- Composite application

NOMINATIONS DUE FRIDAY, AUGUST 13, 2021

One electronic copy of the nomination package consisting of the enclosed Official Nomination Form and supporting materials must be submitted by **Friday, August 13, 2021**. Refer to the nomination form for format and preparation guidelines for supporting materials. Only Electronic submissions will be accepted.

Submit Nominations to: **ASCE Hawai'i Section Awards Committee**

Norman Leong, nleong@ascehawaii.org
Susan Mukai, smukai@ascehawaii.org

If files are too large to email, please contact

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.

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)
- **Stantec** (Account Manager/Engineer-Water)
- **SSFm** (Civil Engineer V, Structural Engineer IV)

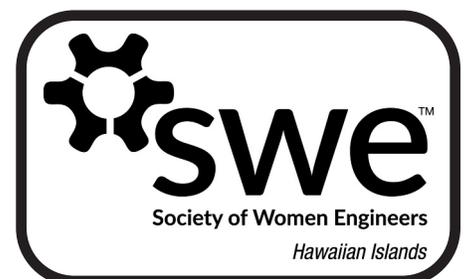
For further information, please visit <http://www.ascehawaii.org/job-listings.html>.

the awards committee chairs via email to coordinate delivery before the August 13, 2021 deadline.

An electronic version of the Nomination Form can be downloaded from the ASCE Hawai'i Section website at www.ascehawaii.org. For any questions or concerns, contact the ASCE Hawai'i Section Awards Committee Chairs.banquet

AWARDS BANQUET

Due to the improving local environment and loosening of restrictions, we would like to hold an in-person OCEA Banquet this year. However, we are still making a final decision about the banquet and will provide an update when an official decision is made. The virtual or in-person awards banquet is tentatively planned for mid to late September or early October.



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ASCE American Society of Civil Engineers
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 Web site: <http://www.ascehawaii.org/yfm.html>

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YMF General Meeting

The next virtual YMF general meeting will be on Wednesday, July 7, 2021 at 6pm via either Zoom or Gather.town. Please send your RSVP to yfm.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 and for details on virtual 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.

CCPI Presentation

On Wednesday, May 12th, Kirk Hashimoto, CCPI, presented about the progress being made in reducing carbon contribution of concrete in construction and the CCPI's role as a resource for the design and construction of projects utilizing concrete. Twenty-two ASCE YMF members attended the virtual presentations, which included a live question and answer session. CCPI is a non-profit organization of concrete producers and affiliates founded in 1965 that seeks to facilitate concrete design and construction through sharing of product information and design resources. As part of this presentation, Hashimoto discussed the importance of considering all aspects of a material's life cycle (cradle to grave) when doing comparative studies.

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 yfm808.pecourse@gmail.com for more information.



ACEC
 AMERICAN COUNCIL OF ENGINEERING COMPANIES
 of Hawaii

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Website: www.acechawaii.org

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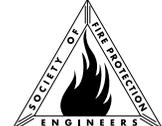
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