

UH ENGINEERING STUDENTS DEVELOP MENTORSHIP PROGRAM AT CASTLE HIGH SCHOOL



AT CASTLE HIGH SCHOOL

The UH Mānoa College of Engineering has launched a new academic mentorship and coaching program, EngineeringHI, in partnership with James B. Castle High School in Kāne'ohe to create a bridge between high school and college students, allowing high-performing undergraduates to connect with and mentor high schoolers benefiting from extra assistance in math, science, and engineering classes on a nearly peer-to-peer level.

Project overview

EngineeringHI, a pilot project made possible by a nearly \$27,000 Harold K.L. Castle Foundation grant, was created this spring and employs a select group of outstanding engineering students from the University of Hawai'i at Mānoa's College of Engineering to provide one-to-one academic coaching sessions via Zoom to high school students from Castle High School in STEM subjects including algebra, trigonometry, pre-calculus, physics, chemistry, and more. Through resources available via UH's Online Learning Academy (OLA) Program, tutors have been trained in building relationships with students and in teaching relevant content in a way that is accessible.

The College has leveraged its Engineering Student Ambassadors, a group of top-performing engineering students who are trained to provide outreach to our local schools and mentor/advise fellow students, as well as students from its student engineering organizations and other qualified individuals, to offer a new approach to tutoring and mentorship. 12 EngineeringHI mentors are currently on staff, many working with students over the summer to support those taking math classes in June and July. The pilot program will run through September 30, 2021, and after that date, program administrators will seek to extend the program and make it permanent by securing outside funding and possibly expanding its reach in the future by bringing in additional educational partners.



Three engineering student ambassadors turned high school mentors from the College of Engineering.

Goals and projected outcomes

"We have been very intentional in establishing this program as a special opportunity afforded to Castle students," said Kim Perez Hults, program supervisor and Director of Marketing and Outreach Relations for the College. "Our tutors are introduced as 'engineering mentors.' In addition to providing traditional tutoring on individual classes, some sessions may also be reserved for working with students in a true mentorship capacity on academic challenges. Castle teachers have identified a need for mentorship with areas such as: guiding students with STEM-related projects and brainstorming concepts for science fairs, providing students with feedback on STEM projects and presentations, and offering special sessions including teacher-requested content reviews."

Over the course of the 7-month program, organizers project they will be able to serve over 150 students and deliver over 1,500 hours of intensive STEM tutoring. Additionally, they aim to demonstrate a measurable improvement in participants' understanding and comprehension of target subjects and concepts, as evidenced by pre- and post-tutoring surveys administered to tutees and/or their teachers and tutors, and provide relevant, meaningful employment to participating undergraduate engineering students, empowering them as mentors to their younger counterparts and providing them with a rewarding experience as evidenced through their post-program survey feedback.

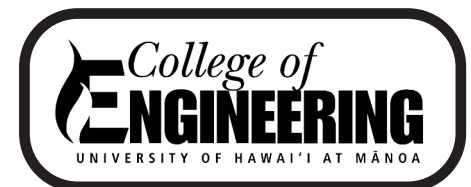
Partners in education

Castle High School and the College of Engineering are no strangers to collaboration – the two institutions have in fact worked closely together over the years, including as partners in the current Hawai'i Engineering Sector Partnership involving K-12, college, and industry partners as well as the Chamber of Commerce Hawai'i. This program serves to build on those efforts and bolster student

learning in science and math to prepare them for college and the workforce.

"Our goal is to ensure that students are prepared for the academic rigor of any postsecondary program in the field of STEM," said Castle High School Principal Bernadette Tyrell. "This summer, Castle engineering students will receive support from a mentor. Successful completion of higher-level math requirements will help students better align with UH Mānoa College of Engineering certification and degrees."

Engineering Dean Brennon Morioka is appreciative of the unique opportunity to develop such a program and has high hopes for the outcome. "We are extremely grateful to the Castle Foundation for having the confidence in the College of Engineering in providing mentorship to our Castle High School community," said Morioka. "And this is a great way for our own students to learn and understand their own responsibility as engineers and as leaders of the importance of not only being a part of a greater community but also lead in Hawai'i's efforts."



2540 Dole Street, Holmes Hall
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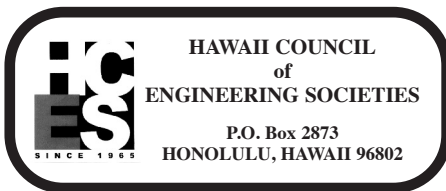
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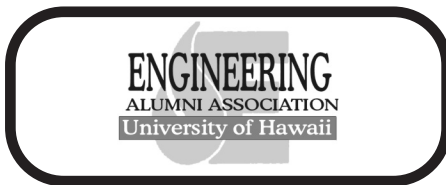
Additions and/or corrections to the Wiliki mailing list should indicate the proper society, institution or association. Corrections to email addresses should be submitted to your society coordinator.



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EAAUH GOLF TOURNAMENT

Friday, August 27
Pearl Country Club
Shotgun start at noon
\$170 per person includes green fees, cart fees, bentos for lunch and dinner, prizes
Limited to 160 golfers
For additional information, email Carrie Matsuzaki (cmatsuzaki@hawaii.edu)



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email: ckaneko@ascehawaiiyfm.org

EXECUTIVE COMMITTEE MEETING

Last held: July 8, 2021
Next meeting: August 11, 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.

AUGUST MEETING – Joint meeting with HWEA/AWWA

Date: AUGUST 12 at 5:30 pm
Location: via Zoom
Time: 5:30 pm
Cost: None (RSVP via Eventbrite)

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.

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>.



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Claire Fukuoka, Vice President
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Brandon Uejo, Treasurer
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Lance Lam, Secretary
llam@ascehawaiiyfm.org
Kapiolani Street, Past President
kstreet@ascehawaiiyfm.org

YMF General Meeting

The next YMF general meeting will be on Wednesday, September 1, 2021 at 6pm, location TBD. 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 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 yfm.hawaii@gmail.com.

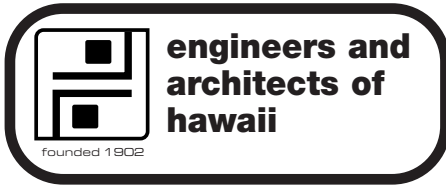
Online PE Refresher Course

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.

YMF Headshots Fundraiser

Looking for a new digital headshot at an affordable price? Update your LinkedIn or Company Website photos and do a photoshoot with us on August 28, 2021 at the office of MKE Associates! Photos will be taken by YMF member, Leah Miyasato, who has a background in digital media. Pricing will be \$15 for a basic package and \$20 for a deluxe package. Please see the following website for descriptions of the packages and to schedule your appointment: <https://calendly.com/yfmhawaii/headshots-fundraiser?month=2021-08>. All proceeds from this event will support the ASCE Hawaii YMF programs and events.



PO. Box 1901, Honolulu, HI 96805-1901
An association for Hawaii's Engineers and Architects

WEB address: www.eahawaii.org

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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 110 Years.

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

August Programs

See EAH Website eahawaii.org

Friday August 6th

Speaker: Andrew G. Stanton, President at Start Out! Inc.

Topic: "The Opportunities and Challenges of Remote Work."

Andrew will talk about some of the challenges and opportunities related to working remotely, predating the pandemic, as he has worked remotely at times throughout his career as a software developer.

Friday August 27th

Speaker: Apryl Syed, Author, Business Strategic Coach, Advisor/Consultant at Apryl Syed Consulting

Topic: "How To Unleash Your Success Ritual"

Apryl will share some excerpts from her book "Unleash Your Success Ritual, Discover the Process to Recreate Your Success".

EAH hosted the below meetings in July Programs

This year EAH is hosting past meetings on Olelo Channel 53. The 30 Minute Programs premieres on the 2nd Wednesday of the month at 6:00 pm and will replay on Sunday's at 1:00pm until the new premier on the following month. Visit the EAH Website for Olelo's On-line Links to these Programs: **Restoring Lehua Island; China Clipper Inaugual Passenger**

Flight 1936; Haiku Stairs History; Subterranean Robot Challenge; 52 Years Years of Architecture – Geoffrey Paterson; Dan Eckert Photographer -Topic Hyperlapse; Ala Wai Ahupua'a – 5 Step Solution.



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keoni@goldwings-supply.com

In July, ITE held the 2021 Joint Virtual Annual Meeting with ITE International. The 3-day Technical Program featured U.S. Secretary of Transportation Pete Buttigieg as the Plenary session keynote speaker. The rich program was designed to not only offer traditional transportation topics, but also the essential issues that address the challenges communities face as they recover from the pandemic, as well as the emerging opportunities in the areas of funding, technology, and practice. In support, the Hawaii ITE section did not host a meeting and encouraged members to attend the annual meeting in its place.

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

Upcoming Events

For all events see seah.org or email flyers.

SEAOH Annual Scholarship Golf Tournament

- Annual Scholarship Golf Tournament is scheduled for Friday October 22, 2021.
- 2021 SEAOH scholarship application form is now posted on the website. The application deadline is Friday September 10, 2021.

Membership Applications

Application from Juan Gonzalez for Associate Member was approved.

Application was received from Ryan Kunihisa for Associate Member. Please contact any SEAOH Board Member by July 29, 2021 to file comments regarding the applicant.

Next Meeting on Wednesday, August 4, 2021. For information, contact SEAOH President John Uno at john@mkellc.com



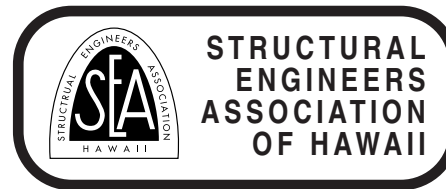
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AACE Hawaii held a webinar on June 25, Automation in Architecture, Engineering and Construction, presented by Mr. Christopher Baze, BIM Manager at Hawaii Dredging Construction Company. In his presentation, Mr. Baze presented an overview of software, hardware, and trends that are increasingly impacting our industry. Machine learning and AI, digital twins, and robotics are changing the way that we plan, design, and build our projects. A focus will be placed on AACE relevant topics including project management, estimating, planning and scheduling, cost engineering, and risk management. The webinar record has been posted in our website: <https://aacehawaii.com/>.

Our local Board Meetings are held monthly. Feel free to contact us with suggestions or interest. For more information, please visit our website www.aacehawaii.com.



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