

FALL 2021 FRANCIS RHODES MONTGOMERY DESIGN COMPETITION RESULTS

The Fall 2021 ASME Hawaii Francis Rhodes Montgomery Design Competition (FRMDC) was held on Friday, December 10, 2021 via Zoom video conference. The annual event is in its 34th year and is cosponsored by the University of Hawaii at Manoa, Department of Mechanical Engineering, and the ASME Hawaii Francis R. Montgomery Foundation.

This Fall, under the guidance of Dr. Zachery Trimble, the design competition consisted of 4 project teams from the ME 481/482 design course. Teams performed a timed presentation detailing their project goals, challenges, application of engineering principles, and design results. The teams also were able to host timed poster presentations where judges were able to ask more detailed questions about each project. The teams utilized pre-recorded videos to demonstrate their projects. Due to the complexity and size of these projects, the videos were significant to demonstrate each of the projects functionality and successes.

Student projects included the University of Hawaii Drone Technologies (UHDT), an unmanned surface vessel for Autonomous Marine Robotics Research (Kanaloa), a telecommunication underground utility scanner (WeCDI), and improvements to Diamond Bakery Manufacturing processes (DBMI).

Despite the challenges of the pandemic, these students adapted extremely well especially when projects required integration with functioning businesses. All teams did a fantastic job planning, designing, problem solving and converting their design concepts into reality. Following the ASME/FRMDC scoring rubric and guidelines, the judges ranked the first and second place teams as follows: First place and \$500 went to Team UHDT, whose UAV will be competing in the 2023 Association for Unmanned Vehicle Systems International (AUVSI) Student Unmanned Aerial Systems (SUAS) Competition. In second place receiving \$300 was Team Kanaloa, whose project now provides the University of Hawaii with its second marine robotics research platform. All of the mechanical engineering student teams demonstrated the application of their cumulative engineering knowledge very well making final scores extremely competitive.



First Place: University of Hawaii Drone Technologies (UHDT)

Left to right, Alexine Niro, Jacob Decker, Niels Issac Daza, Kyle Daquiao, Nagahiro Ohashi, Deylen Nekoba, Jorge Foglesong

Team Project Descriptions:

First Place Team: Team UHDT: University of Hawaii Drone Technologies

The Team goal was to design and fabricate an autonomous drone capable of completing a waypoint flight path, while avoiding obstacles and delivery of a specified payload to a pre-designated location. Previous drones entered into the Student Unmanned Aerial System Competition were fixed wing vehicles that are fast in flight, but its speed increased its difficulty navigating waypoints and accurately delivering the payload. The customized rotary wing drone resolved many issues and provided a balanced approach to achieve a higher competition score.



Second Place Team: Team Kanaloa: Unmanned marine surface vessel

Team Kanaloa's objective was to recommission an unmanned surface vessel for the purpose of future autonomous marine robotics research. The vessel's re-design features manual differential control and additional sway motion. The team's newly developed electrical system is housed entirely with the twin hulls. Its on-board computer system publishes and records localization sensor data via wireless transmission with a fixed ground station computer.

Team DBMI: Diamond Bakery Manufacturing Innovations

Diamond Bakery needed assistance to optimize their cracker packaging and cookie cooling lines. To improve the cracker line efficiencies, a new chute transition was designed and implemented to reduce breakage and interruptions in the cracker wrapping process. The cookie cooling conveyor was improved with new ramps and enclosed chutes to maintain consistent cookie orientation, which is a prerequisite for future chicaning installation.

Team We Con-du-it

Hawaiian Telcom sponsored the design and development of a working prototype device capable of ultrasonically detecting underground conduits and cables. The device was designed to be portable and with continued development should have the potential to detect and differentiate between cable types.

Acknowledgements:

ASME Hawaii would like to thank Professor Zachary Trimble along with the UHM DME for leading and conducting the Fall 2021 Francis Rhodes Montgomery Design Competition. Thanks to all the Senior Design Course participants who worked extremely hard to develop and present their mechanical engineering projects. Finally, thanks to the judges Douglas Dye, Richard Leclerc, and Brianne Yamada who scored the projects. All judges are mechanical engineering volunteers from Hawaiian Electric Company where Francis R. Montgomery worked.



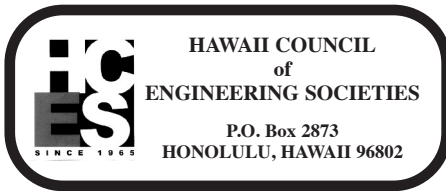
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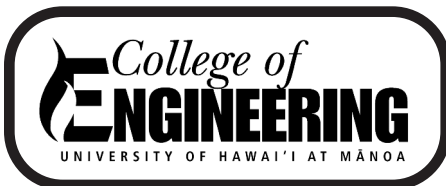
Additions and/or corrections to the Wiliki mailing list should indicate the proper society, institution or association. Corrections to email addresses should be submitted to your society coordinator.



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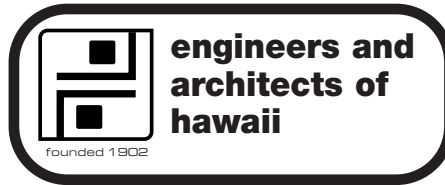
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WEB address: www.eahawaii.org

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EAH is restarting in Person Meetings at our old 301 meeting room in the Topa Tower starting at our February 4th Meeting.

Please email eahawaii@gmail.com if you plan on attending so we can get a head count. Lunch will be Free! Validated Parking \$2

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.

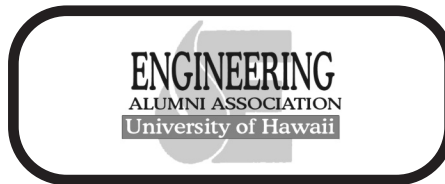
Members, guests, and the Public are welcome to join EAH meetings. Email eahawaii@gmail.com to get the Zoom meeting links.

March Programs

See EAH Website eahawaii.org

Friday March 4th - Speaker: TBA

Friday March 18th - Speaker: TBA



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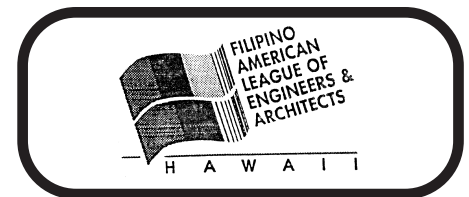
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EAH hosted the below meetings in February.

Friday February 4th. Speaker: Bob Sigall – Rear View Mirror – Star Advertiser, Eminent Speaker, Historian and Man For All Seasons. Topic: “The World As Seen From The Rearview Mirror”

Friday February 18th Speaker: Hans K Van Tilburg, PhD, Maritime Heritage Coordinator Pacific Islands Region, NOAA Office of National Marine Sanctuaries. Topic: “Falls of Clyde and the history of Scottish Shipbuilding”

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 Inaugural 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; A Heritage of Ruins – Dr. William Chapman; Save Historic Haiku Stairs.**



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Scholarship Awards

Congratulations to the following 2021 FALEA scholars:

- Marc Angelo Armas
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- Alexie Joi Realubit
Linfield University
Portland, Oregon
- Maria Stevenson
Creighton University
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- Neil Ryan P. Tegui
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www.asme-hi.com

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ASME-HAWAII GENERAL MEMBERSHIP MEETING

Date: March 2022 (Date not set.)

Agenda: TBA

Time: 5:00 pm

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

February 18, 2022

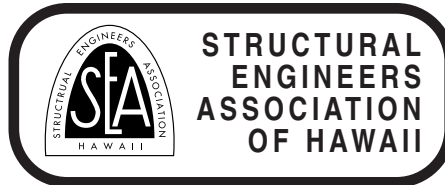
Notes of this meeting will appear in the April Wiliki issue.

NOMINATIONS FOR ASME-HAWAII 2022-2023 OFFICERS

ASME Hawaii Section is seeking ASME members who would like to start a new future promoting mechanical engineering as part of the ASME-HI team. All leadership positions are open including Chairperson, Vice-chair, Treasurer, Secretary, and three Member positions. It has been a tradition where an interested ASME member starts as a Member and climbs his or her way to Chairperson with the assistance of fellow officers. The term for all positions run from July 1 to June 30 each year. If you are interested in any position, please contact Chairperson Derek Sato or any other officer.

2022 MATHCOUNTS COMPETITIONS UPDATE

Hawaii MATHCOUNTS Coordinator, Nhut Pham, announced that the Oahu Chapter Competition was scheduled for February 17, 2022, and hosted online through the Art of Problem Solving (AoPS) Contest Platform, as last year. Pham went further saying that he was looking at staging the Hawaii State Competition in-person at the Ke'ehi Lagoon Memorial. This would take place Saturday, March 26, 2022. The logistics involved considering COVID-19 is still around will require much additional efforts arranging for PA system, projection equipment, and so forth. Volunteer scorers and proctors are needed for the March 26 competition. If you can help or need more information, you can contact Nhut Pham of Bowers & Kubota Consulting at 808-836-7787.



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PREVIOUS BOD MEETING

February 02, 2022

General Membership Meetings/Technical Seminars/Events

For all events see seaoh.org or look for email flyer for registration.

SEAOH Scholarship Golf Tournament

SEAOH held the 2021 golf tournament on Friday, 11 February at Hoakalei Country Club. 26 teams participated in the event with

wonderful food and drink options on the course as well as raffle prizes. First place was a tie between Team Sean Sadaoka, Shane Lawrence, Sze Quek, and Matthew Kato and Team James Kawaihalau, Shari Ishikawa, Joel Venegas, and Caleb Fatui with a net score of 49. Congratulations! The 2022 tournament is tentatively scheduled for October.

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.

Membership Applications

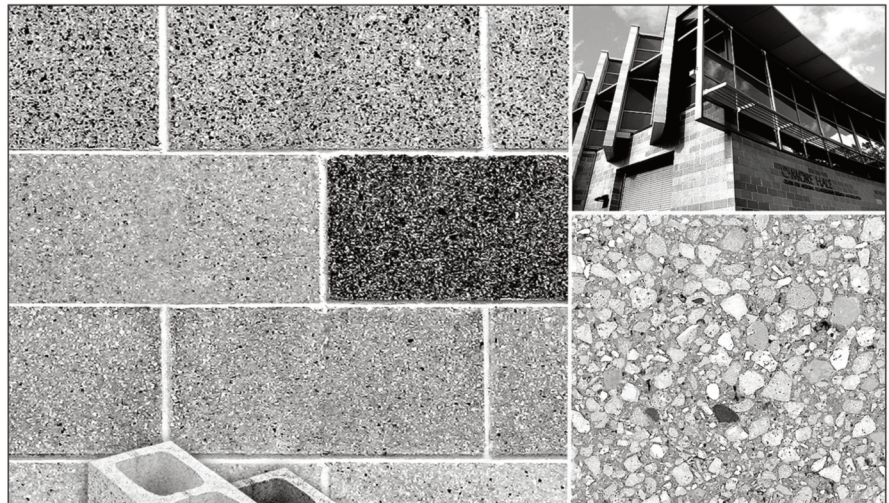
Applications were received from:

- Colin Sakamoto, Associate Member
- Christian Jones, Associate Member

Please contact any SEAOH Board Member by April 4, 2022, to file comments regarding any of the applicants.

Next Meeting on Wednesday, March 2, 2022. For information, contact SEAOH President Craig Meierhoffer at cmeierhoffer@baseengr.com

**Deadline for
Wiliki
 is March 15th**



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EXECUTIVE COMMITTEE MEETING

Last held: February 8, 2022
 Next meeting: March 8, 2022

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.

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

Cost: (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 Cliff Lum, clum@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 Sheila Uyeoka at suyeoka@ascehawaii.org.

ASCE GOLF TOURNAMENT

Save the date for this 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** (Hawaii/Pacific Transportation Business Group Manager, Senior Civil Engineer, Project Manager, Civil Project 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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president.ascehawaiiyfm@gmail.com
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 Lance Lam, Treasurer
treasurer.ascehawaiiyfm@gmail.com
 Rebecca Pitts, Secretary
secretary.ascehawaiiyfm@gmail.com
 Carly Kaneko, Past President
pastpresident.ascehawaiiyfm@gmail.com

YMF General Meeting

The next YMF general meeting will be on Wednesday, March 2, 2022 at 6:00 PM (Location TBD). Please send your RSVP to yfm.hawaii@gmail.com. Please be sure to check out our website and social media channels for the most updated information on our upcoming general meeting 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.

ASCE YMF Job Shadow Program

The Job Shadow Program is looking for students and industry professionals that are interested in becoming a mentee/mentor. Your interest and participation through this program will provide a valuable experience that will help guide students towards a successful path beyond graduation!

If you have any question and/or 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.

2022 PE Exam Update

The PE Exam will be computer-based with appointments available year-round at Pearson VUE test centers beginning April 1, 2022.

Information about how to register for the exam and purchase study materials 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? 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 for more information.



Website: hawaii.apwa.net

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As a member of the Board of the Council of Engineering and Scientific Specialty Boards (CESB), AAACE 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, AAACE Hawaii, was originally established in 1973. It achieved both the Platinum and Gold Award for nine consecutive years 2014-2022. 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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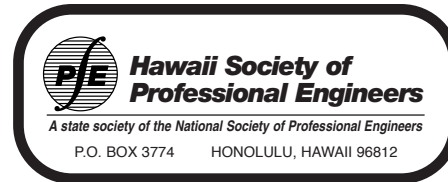
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 jkaehuaea@atahawaii.com
 Vice Pres.: Keoni Wasano
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 Sec/Treas: Mike Motoki
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The ITE Hawaii Section held a virtual speaker meeting on February 23, 2022. We heard from Lauren Armstrong, the Executive Director of Maui MPO, and Pam Eaton, the Planning Program Administrator at the County of Maui. Their presentation focused on the Ka'ahumanu Avenue Community Corridor Master Plan, which aims to create a "community corridor" that is a place to make it easy for people to take the bus and to walk, bike, and roll.

The Section also hosted a "Create Your Street" interactive display and provided Complete Street flyers and coloring books at Windward Mall on February 21 for the National Engineers Week display.

The ITE student chapter hosted a Virtual Resume Workshop to help UH students prepare their resumes for the College of Engineering Job Fair.

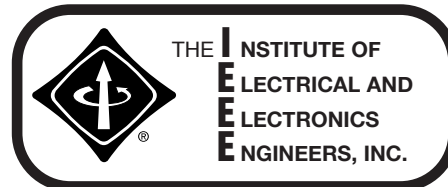
If you would like to be added to the ITE mailing list, please email Mike Motoki at micheal.motoki@honolulu.gov.



<http://www.hawaii-spe.org/>

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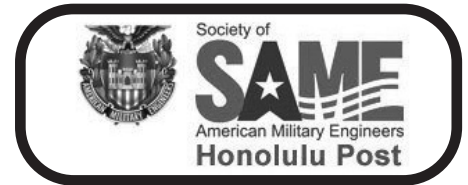
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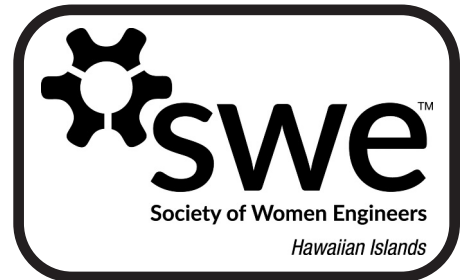
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Professional Directory

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