

## ENGINEERS WEEK IN HAWAII GOES VIRTUAL SEE PAGE 2 FOR DETAILS ON SPECIAL EVENTS

### 2021 HCES LIFETIME ACHIEVEMENT AWARD

#### DAVID G. WALLER (1948 – 2020)

The Hawaii Council of Engineering Societies (HCES) is pleased to announce that David Waller PE is posthumously 2021's HCES Lifetime Achievement Award recipient. Dave was selected for this prestigious honor for an engineering career of 46 years nationally and in Hawaii that was always directed to developing a resource essential for our modern society, energy. First in the petroleum industry as a chemical engineer testing oil wells in Montana and Canada and then as a refinery engineer at PRI in Hawaii. His work at Hawaiian Electric was redirected toward developing the best and most efficient ways to generate and use electricity. Dave was acutely aware of the need for Hawaii to develop renewable energy sources, especially in geothermal energy. After his retirement from Hawaiian Electric, he re-tooled his skills by adding geoscience to his resume by joining the Master of Geoscience for Professionals Degree Program at the University of Hawaii, where he co-authored seven papers on Play Fairway Analysis of Geothermal Resources Across the State of Hawaii.



In 1970, Dave earned his Chemical Engineering degree from Rose-Hulman Institute of Technology Terre Haute, Indiana. Dave worked in the oil industry for many years on the mainland before working at the PRI refinery in Hawaii. From PRI, Dave joined the Fuels Department at Hawaiian Electric where he negotiated and managed their fuel contracts. Dave became Director of the Technology Service Department where he worked with past Lifetime Achievement Awardee Alan Lloyd. Dave moved up to Manager and then Vice President of Customer Service.

*continued on page 5*

### 2021 YOUNG ENGINEER OF THE YEAR

#### KAPIOLANI STREET

The Hawaii Society of Professional Engineers is honored to announce that Ms. Kapiolani Street has been selected as the 2021 Young Engineer of the Year.

Kapiolani M. Street, P.E. was born and raised on the island of Maui and is a proud alumna of the Kamehameha Schools, Kapalama Campus. In 2013, she earned a BS in Civil Engineering and a BA in Anthropology from the University of Hawaii at Manoa, College of Engineering and the University of Hawaii at Manoa, College of Social Sciences, respectively. In 2020, she obtained her MBA from the University of Hawaii at Manoa, Shidler College of Business. She has over 7 years of experience on civil and sanitary engineering projects. She currently works as a Project Engineer at the Limtiaco Consulting Group in Honolulu, Hawaii. Her projects include stormwater erosion control design, wastewater system design, site development and utility design.



Ms. Street became a licensed professional engineer in the State of Hawaii in 2017. She currently serves as the Past President and Website Co-Chair for the American Society of Civil Engineers (ASCE) Younger Member Forum (YMF). Ms. Street is also active in the American Water Works Association (AWWA) and the annual Pacific Water Conference (PWC) Committee. She previously served as the AWWA– Hawaii Section Secretary, the 2019 ASCE Western Regional Younger Member Council (WRYMC) Conference Committee, the Chi Epsilon (XE) Alumni Association – Hawaii Section Secretary, and the ASCE YMF Wiliki Chair.

### 2021 HSPE ENGINEER OF THE YEAR

#### STEVE BALDRIDGE

The Hawaii Society of Professional Engineers is honored to announce that Mr. Steve Baldrige has been selected as the HSPE 2021 Engineer of the Year.

Steve Baldrige is the founder and president of BASE and leads BASE's pursuit of innovation and practical approaches to making buildings stronger, safer, and more cost-efficient. Steve received his BSCE from the University of Wisconsin – Madison and MSCE from the University

of Texas – Austin, and started his engineering career working in Chicago, Houston, and Dallas. Two downturns in the construction market led him to success in Hawaii: the first in 1990 that brought him to Honolulu to work with JAI and later Martin & Bravo, and the second in 1995 that led him to embark on a venture to start his own structural engineering firm.

In the late 1990s, to assist its clients working on government projects, Steve began providing antiterrorism/force protection (AT/FP), a relatively



**Steve Baldrige in Washington, DC, with the Moanalua High School ACE Mentor team, winners of the inaugural Construction Industry Round Table National Design Competition.**

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### 2021 HCES STUDENT ENGINEER OF THE YEAR

#### WILLY CHANG

This year's HCES SEOY is Mr. Willy Chang! With a cumulative GPA of 3.99 and a major GPA of 4.00, Willy is expected to graduate with a BS in Computer Engineering and a minor in Business Administration this Spring 2021. He will be continuing into the UH College of Engineering Electrical Engineering Master's program as a BAM (Bachelors and Masters) student. He is currently the Treasurer for the University of Hawaii's Manoa chapter of IEEE-HKN and also a member of the Hawaii'i Kai Jaycees and the PMA (Pre-Medical Association).



Entering the UHM as a Regent's Scholar, Willy wished to continue his academic career not only as an individual seeking awards and a Bachelor's degree, but one who satisfies his thirst for knowledge and practical applications. Even though enrolled in the College of Engineering as a Computer Engineer, he desired to be involved in the medical arena; thus, he got involved in a few related organizations such as the Pre-Medical Association and the Pre-Health Career Corps, and volunteered in JABSOM's Bioinformatics team under Drs. You Ping Deng and Masaki Nasu. In the summer of 2019, he interned at the UH Cancer Center under Dr. Muller Fabbri to analyze the interaction of certain miRNAs in the tumor microenvironment. He and his team then published the "Automated computer analysis of human blastocyst expansion from embryoscope time-lapse image files," in the American Society for Reproductive Medicine, 2019.

During this period where he dedicated himself to absorbing information within the medical field, Willy pursued opportunities to enhance himself as an

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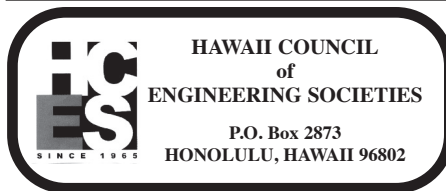
Published monthly by:

HAWAII COUNCIL OF ENGINEERING SOCIETIES

SERVICE PRINTERS, INC.  
1829 Dillingham Boulevard • Honolulu, HI 96819  
Telephone: (808) 841-7644 • Fax: (808) 847-1487  
ADDRESS ARTICLES FOR PUBLICATION TO:  
WARREN YAMAMOTO  
1526-C Pukele Avenue • Honolulu, HI 96816  
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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)

**2020-2021 OFFICERS**

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SAME	L. Wong	
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**Hawaii Section 2019-2020 OFFICERS**

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

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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.

**HAWAII ENGINEERS WEEK VIRTUAL EVENTS**

Engineers Week is being observed February 21-27, 2021, the week of President Washington's birthday. Virtual events are replacing the traditional Kick-off Luncheon and Anniversary Banquet.

**KICK-OFF EVENT**

Tuesday, February 23, 12 noon to 1:00 pm, ZOOM meeting.

Sponsored by the Society of Military Engineers and the Hawaii Council of Engineering Societies.

Speakers: CAPT Gordie Meyer, CEC, USN, Commanding Officer, NAVFAC Hawaii, and Brennan Morioka, PhD, Dean of the UHM College of Engineering, will discuss the Red Hill fuel: Fueling our National Security, Levering Technology.

Ceremony: Recognition of incoming officers of the Hawaii Council Engineering Societies.

To register: <https://tinyurl.com/HCESKickoff21>.

**AWARDS EVENT**

Friday, February 26, 12 noon to 1:00 pm, ZOOM meeting.

Sponsored by the Hawaii Council of Engineering Societies.

Annual Engineers Awards:

- 2021 Engineer of the Year, Steve Baldrige
- 2021 Young Engineer of the Year, Kapiolani Street
- 2021 Student Engineer of the Year, Willy Chang
- 2021 Life Time Achievement Award, David G. Waller

Speaker: Bill Chapman, Dean of the UHM School of Architecture

To register: <https://tinyurl.com/HCESAwards21>.

**ENGINEERING CAREER DAY**

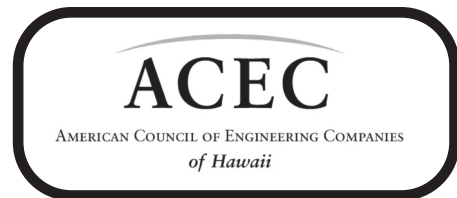
UH College of Engineering Spring 2021 Career Day  
Wednesday, February 24, 2021

9:00am - 12:00pm and 1:00pm - 4:00pm

Online via virtual platform

Register: [eng.hawaii.edu/event/careerday-s21/](http://eng.hawaii.edu/event/careerday-s21/)

Contact: Kimberly Perez Hults <[hults@hawaii.edu](mailto:hults@hawaii.edu)>



**ACEC Hawaii**

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

**2020-2021 Board of Directors**

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The local section, ACEC 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.aaacei.org/certification> and our local website [www.acechawaii.com](http://www.acechawaii.com).

**FEBRUARY VIRTUAL GENERAL MEMBERSHIP MEETING**

Thursday, February 4, 2021 Noon – 1:00 p.m.

**A Brief Introduction to Implicit Bias**

Most human behaviors are the result of choices and decisions that people make without conscious thought or with explanations that make perfect sense within their own mental models or frames of reference. Our minds gather some information and ignore other information based on what our experience has told us is important, relevant, or necessary for our success. Our assessments of other people often reflect this Implicit mental process.

The American Council of Engineering Companies of Hawaii (ACECH) member firms are invited to attend this presentation by **Gwen Crider**, leadership and organizational performance strategist with over 20 years of leadership experience in the private and non-profit sectors. This presentation will define implicit bias and how, without our awareness, it can influence our decisions and actions. It will also provide some practical tips and tools for recognizing and mitigating the influence of implicit bias.

A subject matter expert and deeply experienced facilitator in the areas of Diversity and Inclusion, Gwen is a coalition-builder, skilled at helping clients to establish and sustain diverse workplaces. She focuses on the design and delivery of innovative, strategic and transformative interventions that build engagement and involvement at all organizational levels, and among both internal and external stakeholders.

Attendance is free for ACECH members, but space is limited. Please contact Ginny Wright at [gwright@acechawaii.org](mailto:gwright@acechawaii.org) for information.

**THE 2021 ENGINEERING EXCELLENCE AWARDS GOES VIRTUAL**

Thursday, April 15, 2021

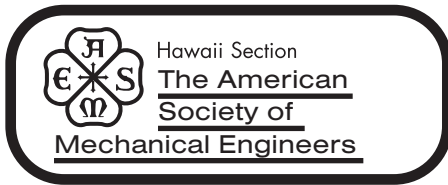
Save the date for the annual ACECH Engineering Excellence Awards (EEA), the "Academy Awards" for engineers in Hawaii. Each year, EEA provides an opportunity for engineering firms to showcase their best projects and to receive recognition from their peers through the EEA competition. Projects will be judged for innovative application of new or existing techniques; value to the engineering profession and perception by the public; social and economic considerations; complexity; and meeting or exceeding client needs.

Competition submission requirements and registration information will be provided as it becomes available.



**2020-2021 Officers:**

President:	Kelly Akasaki <a href="mailto:Kelly.akasaki@honolulu.gov">Kelly.akasaki@honolulu.gov</a>
Vice Pres.:	Jasmine Teramae-Kaehuaea <a href="mailto:jkaehuaea@atahawaii.com">jkaehuaea@atahawaii.com</a>
Sec/Treas:	Keoni Wasano <a href="mailto:keoni@goldwings-supply.com">keoni@goldwings-supply.com</a>



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

#### ASME-HI 2020-2021 Officers

Chairperson	Froilan Garma <i>Froilan.B.Garma@jci.com</i>	321-2691
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HCES Rep:	Derick Kam	
Alternate:	Froilan Garma	

#### NEXT ASME-HAWAII GENERAL MEMBERSHIP MEETING

Date: Date yet to be determined depending on COVID-19 status, such as current State Social Distancing proclamation relaxation, vaccine implementation, and depending if remote-virtual meeting conducted.

As usual, all members, students and guests are invited and encouraged to attend our meetings.

#### RESULTS OF ASME-HI 2020-2021 SURVEYMONKEY BALLOTING

Our annual ballot & survey ended December 31, 2020. The election results are as follows:

Chairperson: Derek Sato  
Vice Chair: Froilan Garma  
Treasurer: Kevin Dang  
Secretary: Raymond Liu  
Member at Large: Ronald Flegal  
Member at Large: Jason Frifeldt  
Member at Large: Abel Siu  
Group Page Administrator: Ed Chang

Congratulations to these fellow ASME members who have and will continue to help perpetuate the Hawaii Section. Their term in office ends June 30, 2021.

#### NEWS FROM OUR FELLOW MECHANICAL ENGINEERS IN MANOA

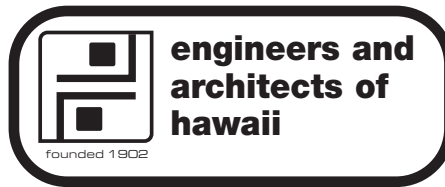
Dr. Sangwoo Shin reports, "Throughout the year, the university has been encouraging all faculties to switch to online classes. This will continue throughout the upcoming spring semester as well. The ME Department has been following the policy as much as possible except for certain courses that require lab sessions such as ME322 fluid mechanics, ME422 heat transfer, etc. These courses implemented hybrid system in which the regular lectures were held online while the lab sessions were given offline with limited number of students present in the lab. Senior Design course or Capstone Design II ME482 implemented a slightly different approach."

Here's Dr. Zac Trimble's update on ME482:

"Capstone Design II (ME 482) requires students to test and validate (and iterate or redesign if necessary) the designs they created during Capstone Design I (ME 481). In this challenging year of distance learning, the ME Department utilized validated simulations to represent the real world. I.e., students were provided a simulation environment and told to assume that simulation was the real world. Their design was then expected to be developed to operate in and be validated in this simulated

world. This methodology provided similar challenges as building a prototype for the real world. Namely, the students must develop understanding of the limitations of their models and assumptions vs the performance of their prototype within its actual operating environment. The students must test their designs in the simulated world and make adjustments and retest until their prototype works. Although the approach wasn't ideal, and the ME Department expects to return to physical prototypes when health concerns decrease, students certainly developed a hybrid set of skills, especially including rapid adjustment to new constraints, that prepared them for this new world."

Dr. Shin added, "The students have been handling the situation much better than the faculty had originally anticipated. Hopefully all the students can come back to the campus by the Fall of 2021."



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

WEB address: [www.eahawaii.org](http://www.eahawaii.org)

#### EAAH 2020 Officers

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Director	Joe Feind	
Director	Dave Martin	543-4504

All meetings are via Zoom. Email [eaHawaii@gmail.com](mailto:eaHawaii@gmail.com) for Zoom link.

#### Friday February 5th

Speaker: Sam Dannaway - VP Fire Protection Engineer - Coffman Engineers

Topic: Fire: As a Weapon of Mass Destruction

Sam returns to EAH with another story about the engineering of using Fire as a Weapon of Mass Destruction which all sides used during World War II. Sam will tell the story of how fire protection engineers and fire service professionals worked with the Army Air Force and the Royal Air Force during WWII to plan the firebombing of German and Japanese industrial and population centers. Based on the NFPA Publication Fire and the Air War.

#### Friday February 19th

Speaker: Hans K Van Tilburg PhD - Maritime Heritage Coordinator Pacific Islands Region, NOAA Office of National Marine Sanctuaries

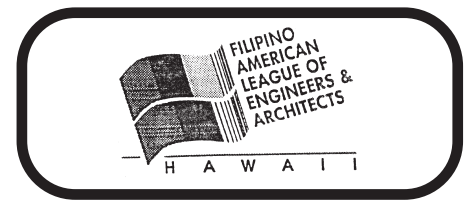
Topic: "Nanhai #1: A Window on the Maritime Silk Road"

Hans returns again to EAH to tell us about China's ambitious Nanhai #1 excavation project, initiated in 2007, which achieved an engineering milestone in the recovery of underwater cultural heritage that has never been replicated. The discovery of a 900-year old Song dynasty merchant vessel culminated in the removal of the adjacent seafloor along with the entire intact wreck, allowing for meticulous "in situ" excavation under environmentally controlled conditions within a specially-built lab on a nearby island. The

wealth of porcelains and trade goods found with the vessel demonstrates the extensive and vibrant past of the Maritime Silk Road, and archaeologists are only now reaching the lower levels of the vessel's cargo holds. The project is also relevant to today's resource and management issues in the South China Sea.

#### December Past Meeting:

The December 18th 2020, speaker was Stephen Cayetano, Deputy Executive Director HART and the topic was an Update on Honolulu's Rail Project HART. Stephen and his team provided EAH with a general update on Honolulu Rail Project. He also talked about the ongoing Dynamic Train Testing of running trains, Construction update to complete project by 2028 and the Project Survey. He then answered questions. This meeting will be featured on the EAH YouTube channel.



P.O. Box 4135, Honolulu, Hawaii 96812

Website: <http://www.falea.org>

#### 2020-2021 Officers/BoDirectors

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Public Rel. Off:	Maricel O. Guinto
Immediate Past President :	Gene C. Albano, Jr.
Directors:	Angelie L. Armas Riza Marie Gatdula/Cao Maritez A. Marquez Joey G. Resurreccion Elvi M. Sutherland Roger A. Urbi

The FALEA Foundation selected six deserving students in December 2020 to receive scholarships. Scholarship recipients are: Ms. Maria Stevenson, Ms. Adrienne Kaneshiro, Ms. Alexie Realubit, Ms. Loise Medina, Ms. Teresa Constantino, and Mr. Marc Armas. Through hard work, dedication, and community service, they have proven to be a student that FALEA wants to recognize and encourage to continue to excel in their educational effort. These young adults will be the future leaders of our community. Congratulations on a job well done!

**Deadline for  
Wiliki  
is February 15th**

**Wiliki  
Advertisers  
Wanted**



### 2020-2021 ASCE Hawaii Section Officers

President: Dayna Nemoto-Shima, P.E.  
 email: [dnemoto@ascehawaii.org](mailto:dnemoto@ascehawaii.org)  
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 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@ascehawaiiyfmf.org](mailto:ckaneko@ascehawaiiyfmf.org)

### EXECUTIVE COMMITTEE MEETING

Last held: January 8, 2021

Next meeting: February 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. 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.

### 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 to fill the following committee positions: Communications, Website, and Membership. 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).

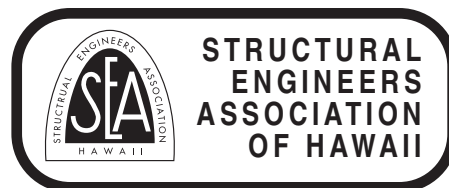
### ASCE HAWAII SECTION STUDENT SCHOLARSHIPS

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 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)
  - **G70** (Civil Designer, Civil Engineer, Civil Project Manager, Construction Manager)
  - **HDR** (Senior Civil Engineer, Senior Engineering Project Manager, Water/Wastewater Engineer & Water Business Group Manager)
  - **Kennedy/Jenks Consultants** (Project Manager, Staff Engineer for Honolulu Office and Staff Engineer for Hawaii Office)
  - **Nagamine Okawa Engineers Inc.** (Structural Engineer)
  - **R.M Towill Corporation** (Assistant Engineer I, Assistant Engineer II, Civil Design Engineer, Design Visualizer 3D Modeler)
  - **Stantec** (Task Order Manager, Office Engineer, Junior Office Engineer, Lead Engineer-Assistant Resident Engineer, Track Inspector, Sr. Project Scheduler, Account Manager/Engineer-Water)
  - **SSFm** (Civil Engineer V, Structural Engineer IV)
- For further information, please visit <http://www.ascehawaii.org/job-listings.html>.



PO BOX 3348, HONOLULU, HI 96801

Web Page URL <http://www.seaoh.org>

### 2021 BOARD OF DIRECTORS OFFICERS AND DIRECTORS

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[clau1@honolulu.gov](mailto:clau1@honolulu.gov)  
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 Director (Yr 1): Justin Matoi  
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 Director (Yr 1): Will Wong  
[wwong@gprmp.com](mailto:wwong@gprmp.com)  
 Past President: Danny Fujioka  
[dannyf@nagamineokawa.com](mailto:dannyf@nagamineokawa.com)

### Upcoming Events

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

- **Engineers Week Proclamations** – The Governor and Mayor issue proclamations each year to kick off Engineers Week festivities. Due to COVID-19 all ceremonies are virtual.
- **February Continuing Education Webinar:** CRSI Reinforcing Steel Options, Tuesday, 16 FEB at Noon. Be on the lookout for emails with signup information.

### • Membership Applications

Applications were received from:  
 • Patricia Paulino, MKE Associates, Associate Member

Please contact any SEAHO Board Member by March 1, 2020, to file comments regarding the applicant.

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



### 2020-2021 YMF Officers

Carly Kaneko, President  
[ckaneko@ascehawaiiyfmf.org](mailto:ckaneko@ascehawaiiyfmf.org)  
 Claire Fukuoka, Vice President  
[cfukuoka@ascehawaiiyfmf.org](mailto:cfukuoka@ascehawaiiyfmf.org)  
 Brandon Uejo, Treasurer  
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 Lance Lam, Secretary  
[llam@ascehawaiiyfmf.org](mailto:llam@ascehawaiiyfmf.org)  
 Kapiolani Street, Past President  
[kstreet@ascehawaiiyfmf.org](mailto:kstreet@ascehawaiiyfmf.org)

### YMF General Meeting

The next virtual YMF general meeting will be on Wednesday, March 3, 2021. Please send your RSVP to [yfmf.hawaii@gmail.com](mailto:yfmf.hawaii@gmail.com), link 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 [yfmf.hawaii@gmail.com](mailto:yfmf.hawaii@gmail.com).

### 2021 HCES STUDENT ENGINEER OF THE YEAR, from Page 1

engineer under the VIP Micro-Robotics Embryo Image Analysis sub-team. Here, he contributed in training a neural network and developing a standalone desktop application using MATLAB to segment and analyze embryo videos.

Following the summer of his sophomore year, Willy participated in the Hawaii Annual Coding Challenge with a few of his fellow engineering students. In the competition, they built a mobile application, "Data for the Future," to visualize the local community's involvement and their contribution to Hawaii's sustainable goals. Falling short of placing, he would compete in the same competition in his senior year. This time, they created a web application, "GameTheSystem," which proposed a procedure that would enhance the security of the IT building on campus, a project secured a second-place finish!

Willy started off as a volunteer at the Hawaii Space Flight Laboratory, where he helped develop and design dashboards to visualize incoming telemetry data from satellites, a position where he would work through the summer of 2020 and into his senior year. As a senior, he started off interning at University Health Partners working on a project to refactor a machine learning classification algorithm and started to work with the Cybersecurity team under Dr. Yao Zheng on a harmonic radar using GNURadio.

Understanding the importance of passing on knowledge to the next generation, Willy has been a math and science tutor at the Online Learning Academy since he started his tenure at UHM. He has worked as a teaching assistant in one core Computer Engineering course and a grader. He is currently a teaching assistant in EE 367, Data Structures & Algorithms.

This humble, dedicated, and disciplined student, and soon to be a computer engineer, is the type of graduate necessary to promote and inspire engineering to the youth of Hawaii!!!

**2021 HCES Lifetime Achievement Award, from Page 1**

While at Hawaiian Electric Dave was a director with the team that lead the program promoting the installation of hot water heat pumps at hotels and condominiums in Hawaii which provides significant energy savings. For this Hawaiian Electric was awarded the utility industry's top honor, "The Edison Award", which was "Presented in 1995 in recognition of its distinguished leadership, innovation and contribution to the advancement of the Electric Industry for the benefit of All."

At Hawaiian Electric, Dave as a director helped developed and managed the Demand Side Management (DSM) program in the 1990's, which was part of the beginnings of energy conservation programs in the electrical utility industry. He was also central to the developing the Basic Ordering Agreement (BOA) for energy conservation projects with all branches of the US Government, which resulted in renovation projects for lighting retrofits, hot water solar, electrical solar panels, and air conditioning projects. Projects included a nine-million-dollar central chilled water plant at Pearl Harbor Naval Shipyard, air conditioning chiller replacement at Schofield Barracks and solar projects for the US Coast Guard. While a Vice President of Hawaiian Electric he managed energy demand projects such as Direct Load Control programs and worked to transition Hawaiian Electric's generation to meet Hawaii's Clean Energy Initiative's goal for Hawaii to be 100% renewable energy by 2045.

Dave was a sailor and sailed his sailboat out of the Ala Wai Boat Harbor for many years and enjoyed riding his Harley-Davidson around the Island. Dave Waller was an inspirational leader that always led by example. He always had a cool, level head and thoughtful approach to problem solving and was a welcome member at any meeting. Dave was always striving to improve himself as shown in his educational accomplishments. He studied Chemical Engineering earning his Bachelor of Science degree. To fulfill his required military service during the Vietnam era, he enlisted in the US Air Force where he learned Russian and use it during reconnaissance flights. After working over a decade as a chemical engineer, he returned to college and earned his MBA at Manoa. In 2014, he returned again to Manoa and earned his Masters in Geoscience specializing in geothermal energy.

He actively supported professional and

community organizations monetarily and in officer positions such as ASHRAE and the Armed Service YMCA Hawai'i. As ASHRAE President in 2001-2002, ASHRAE's National convention was held in Honolulu, when about 3,000 ASHRAE members attended. This involved coordination of the convention facilities, schedule programs, hotel accommodations, field trips and all other activities for the 4-day event.

Dave's lifetime accomplishments first in discovery of new oil and natural gas energy sources, his work in electric utility energy conservation and renewable energy; and lastly in finding firm renewable geothermal energy sources in Hawaii will continue to benefit future generations and has made Hawaii a better place for all to live. Dave's accomplishments will be appropriately recognized and remembered through the HCES Lifetime Achievement Award.

Though Dave passed in late November of last year, Dave's wife Beth and their son Zander can look proudly on Dave's Lifetime Achievements. HCES's member societies thanks them for all their support of Dave's work and know Dave will always be respectfully remembered by his family, friends, and colleagues.

**2021 HSPE ENGINEER OF THE YEAR, from Page 1**

new specialty engineering service for the A-E industry. Since then, his firm has emerged as a leading structural engineering consulting firm addressing protective design. In 2006 Steve co-authored a publication entitled **Prevention of Progressive Collapse in Multistory Concrete Buildings** and he served as Director of the Applied Technology Council (ATC), a national technical non-profit professional organization dedicated to the advancement of engineering technology to mitigate natural hazards. During his tenure on the board, Steve helped steer the ATC to expand its focus to include the mitigation of manmade (terrorist) disasters.

In addition to protective design, Steve and his firm are one of the nation's foremost experts in engineering for high-risk environments with special expertise in designing structures that are resilient against high seismic activity, hurricane/tornado winds, or tsunamis. He served as ATC's project technical director for ATC-64, **Development of Design and Construction Guidance for Special Facilities for Vertical Evacuation from Tsunamis**, the seminal document that led to the ASCE Tsunami Design chapter. This work has a direct impact

on reducing the risks associated with tsunamis in Hawaii.

For nearly three decades Steve has shared his expertise in natural disaster mitigation through volunteering in areas hit by earthquakes and tsunamis including:

- 1992 – Hurricane Iniki
- 1993 – Guam Earthquake
- 2006 – Big Island Earthquake
- 2009 – American Samoa Tsunami
- 2010 – Haiti Earthquake
- 2015 – Nepal Earthquake
- 2017 – Hurricane Irma: US Virgin Islands, Virgin Gorda and St Maarten

The majority of these trips were pro-bono efforts for technical non-profits that often required staying in tents or hotel rooms with no power. His trip to American Samoa was recognized by the US Small Business Administration and Steve was a finalist for their Phoenix Award in 2011.

Steve also volunteers to work with Honolulu's youth with an emphasis on encouraging STEM. In 2001 he formed the Hawaii chapter of the ACE Mentor Program providing opportunities for high school students to learn about architecture, construction and engineering. In 2007 he travelled with a team from Moanalua High School to Washington, D.C., where they won the inaugural CIRT/ACE national design competition.

Steve is also a champion of efficient and sustainable structural design through optimizing structural systems to reduce material requirements on a project. Projects designed by BASE have changed the Honolulu skyline, such as Koula, Aeo, Aalii, Pacifica, The Ritz-Carlton Waikiki, Keaouhu Place, and 801 South Street, along with other not-so-tall but equally important projects. Under his leadership BASE has expanded to Guam, Chicago, Florida, and India with signature projects across all offices.



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

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