The 2020 American Council of Engineering Companies of Hawai‘i (ACECH) Engineering Excellence Awards (EEA) culminated in a banquet held on Saturday, January 25, 2020 at the Ko'olau Ballroom in Kaneohe. This year’s event had a total of 10 entrants and was one of the most well-attended EEA Banquets in recent history, with over 180 people in attendance.

The program aims to recognize outstanding engineering projects that demonstrate elements of innovation and ingenuity while making positive impacts to the community. Top winners from Hawai‘i can also enter the ACEC National Competition, one of the most prestigious design competitions in the world.

This year, the top project receiving the highly coveted Grand Conceptor Award was earned by the Umauma Stream Bridge, Hawai‘i Belt Road, Hakalau, Hawai‘i. The project was submitted by KSF, Inc. RM Towill Corporation’s Interstate Route H-1 Shoulder Work and PCC Pavement Rehabilitation, Austin, Tsutsumi & Associates, Inc.’s Iao Surface Water Treatment Plant Upgrades, KAI Hawaii’s Espacio “The Jewel of Waikiki” Kowa Waikiki Beachside Hotel Renovation, and Sam O. Hirota’s Engineering Excellence Awards for the Future projects were each awarded Excellence Awards.

The aged Umauma Stream Bridge, part of the Hawai‘i Belt Road on the Hāmākua Coast, Big Island, was classified as structurally deficient with insufficient roadway width. Despite the preservation of the important historic features of the steel trestle bridge. Innovative elements included Triple Pendulum Isolators to reduce seismic forces, negative batter Mechanically Stabilized Earth to remove lateral loading on the existing abutment, precast deck panels and Ultra-High Performance Concrete to accelerate construction, and two-way post-tensioning to minimize the possibility of cracking of the concrete deck. The bridge was also designed with no expansion joints in the deck to decrease future maintenance and increase longevity.

Continued on page 3

Hawaii Society of Professional Engineers (HSPE) Educational Foundation’s 37TH MATHCOUNTS® Oahu Chapter Competition was held on February 8, 2020 in the Kamehameha Schools Kalama Dining Hall, and with no surprises, taking first place was Washington Middle School. Speaking with Washington Coach Sung Park during the competition he mentioned this would be Washington’s tenth consecutive first place in MATHCOUNTS Oahu Chapter Competition. This dominance began in 2011. Park proudly said that no other school has accomplished this feat. In second place was Iolani followed by Kamehameha Middle School Kapalama in third, Punahou fourth, Highlands Intermediate fifth, and Mililani Middle in sixth. These six teams move on to compete in the March 14th Hawaii State MATHCOUNTS Competition also in the Kamehameha Schools Kalama Dining Hall. The 7th through 10th place teams were Niu Valley Middle School, King Intermediate, Laie Elementary and Kaimuki Christian, respectively.

Competing in this 37th Oahu Chapter Competition were 25 Oahu public and private middle/intermediate schools with about 240 middle school students hoping to do well to compete in the State. Each school is allowed up to ten participating students of which four are designated as the school team. Note that Laie is an elementary school which means 6th graders placed 9th among the 24 middle schools competing.

After several hours of timed math tests, the test sheets scored, and the results tallied, the top ten scoring mathletes from first to tenth were Sangyuk Lee of Washington, Hyun Seo of Washington, Arthur Chehshr of Washington, Keisuke Kwong of Washington, Brandon Yoshioka of Highlands, Derek Mei of Iolani, Justin Lu of Iolani, Iris Xu of Punahou, Michael Roberts of Mililani, James Be of Iolani and Justin Lu of Iolani. They competed in the exhibition, lightning-fast Countdown Round pitting the top 10 individual scorers against each other in pairs for single-elimination competition. The pairing starts with the lowest scores. The Countdown Round focuses on speed and accuracy, which always amazes the spectators. Students have a maximum of 45 seconds per problem without a calculator. In the end, Keisuke Kwong defeated Arthur Chehshr for first place and became the star of the competition. The Countdown Round is a required event at the State Competition to determine which four mathletes go to the Nationals.

Continued on page 7
Ross Sasamura (left), Director of the City and County of Honolulu Department of Facilities and Maintenance, met with this year’s Engineers Week awardees: Sam Dannaway, Rika Okino, Carly Ann Kaneko, and Ken Kawahara, for the signing of the Mayor’s Proclamation of Engineers Week in Honolulu.
Supply's (DWS’s) Central Maui system that provides drinking water to residences and businesses in Wailuku-Kahului area. The WTP is unique in that the entire flow of water from the Iao-Waikapu Ditch to DWS’s Central Maui Water System is by gravity. Another feature is the on-site chlorine generation system that generates sodium hypochlorite from salt, which was the first installation by DWS. The custom-built SCADA system for the WTP enables the operators to view and operate the system anywhere, as long as they have access to a secure network.

Excellence Award Winner: Espacio “The Jewel of Waikiki” – Kowa Waikiki Beachside Hotel Renovation
Entering Firm: KAI Hawaii, Inc.
Client/Owner: Kowa Waikiki LLC/Kowa Company, Ltd.

The Espacio Hotel was a complex, environmentally sustainable reuse of an existing building that transformed an existing 12-story 80-unit hotel into an ultra-luxury hotel and spa with 9 single floor suites. The Espacio reduced environmental impacts, supplies the demand for larger luxury accommodations to visitors, contributes to our local economy through higher generated tax revenues and employment, and enhances the overall appearance of Waikiki. The building reuse and renovation required gutting the original 1966 building to its shell, removing the existing elevator core and retrofitting a new concrete core to bring the lateral seismic system up to code. This proved to be the biggest structural challenge; all without the original record drawings. Careful planning, creative solutions, and team effort of the engineer, architect, contractor, and owner; the project team overcame the complexity of the project which included numerous unforeseen conditions encountered during the intricate renovation while successfully fulfilling the owner’s vision.

Excellence Award Winner: Iao Surface Water Treatment Plant
Client/Owner: County of Maui, Department of Water Supply

The new Iao Water Treatment Plant (WTP) uses state of the art membrane filtration units to treat surface water from the Iao-Waikapu Ditch to produce potable drinking water that meets all state and federal requirements for safe drinking water. The WTP can produce an average daily flow of 3.2 million gallons per day to supplement the County of Maui Department of Water Supply’s (DWS’s) Central Maui system that provides drinking water to residences and businesses in Wailuku-Kahului area. The WTP is unique in that the entire flow of water from the Iao-Waikapu Ditch to DWS’s Central Maui Water System is by gravity. Another feature is the on-site chlorine generation system that generates sodium hypochlorite from salt, which was the first installation by DWS. The custom-built SCADA system for the WTP enables the operators to view and operate the system anywhere, as long as they have access to a secure network.

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2020 ACECH Awards, from Page 3

Honor Award Winner: Kewalo Basin Harbor Improvements
Entering Firm: Coffman Engineers
Client/Owner: Kewalo Harbor Development Company/Howard Hughes Corporation

Coffman Engineers, Inc.’s engineering services significantly transformed this historic and deteriorated harbor into a safe, secure, and modern facility. The project team helped elevate the harbor’s public image and functionality through this project that upgraded facility aesthetics, improved safety and security systems, and provided amenities like security gates, Wi-Fi, and CCTV. The project team designed improvements to the existing slips and the 45 new harbor slips.

The project met the client’s strict budgetary requirements, and saved money by re-using existing components where possible. Coffman’s designs also helped provide the client with the potential for increased revenue through the added amenities and the 45 new slips. The Coffman team delivered the project while conquering the complexities of the various project elements. Through careful coordinated phasing, our team adhered to the client’s schedule, while minimizing the project’s impact on the marine environment, the existing tenants and the harbor’s ongoing operations.

Honor Award, Installation of Precast/Prestress Concrete Slab Sections in Progress

Honor Award Winner: Consolidated Car Rental (ConRAC) Facility, OGG
Entering Firm: Bowers + Kubota
Client/Owner: State of Hawaii Department of Transportation

Kahului Airport’s roadway system is a one-way street, requiring all traffic to pass through the Airport terminal’s frontal road, creating a congestion nightmare, particularly during peak travel hours. A consolidated rental car facility was constructed to provide a centralized, on-Airport facility, situated prior to the terminal building. An electric tram replaced petroleum-powered bus fleets, transporting passengers to and from the facility. The ConRAC’s location and tram greatly reduces Airport traffic. Due to structural design inefficiencies, the construction manager and contractor worked together to hire a separate structural engineering firm that later submitted a value engineering design change to resolve the issues. This resulted in a net shared savings of over $3.4 million, assisting the project to come in on time and on budget.

DOT-A’s vision for Kahului Airport and the ConRAC facility recreates the historic Maui plantation feel, while still utilizing state of the art sustainable practices and conveniences. The new LEED Silver certified consolidated rental car facility accomplishes just that!

Honor Award, ConRAC Aerial with Water Feature

Honor Award Winner: Ke Kilohana, Ward Village
Entering Firm: Wilson Okamoto Corporation
Client/Owner: Howard Hughes Corporation

Ke Kilohana is one of several towers constructed as part of the Howard Hughes Corporation’s 60-acre Ward Village redevelopment. Ke Kilohana is a 43-story high-rise condominium offering much needed affordable units for the community. The residential tower also includes ground floor commercial/retail space, anchored by Longs Drugs. Wilson Okamoto Corporation (WOC) was the civil engineer. WOC’s scope of services included design of site layout, grading, roadway modifications, driveways, sidewalks, sewer system, storm drainage and storm water quality system, and domestic and fire protection water service. Sewer design included construction of a 24-inch sewerline in Ward Avenue, from Auahi Street to Ilaniwai Street. This sewerline will accommodate sewer demand for other developments in the Ward/Kakaako area.

Ke Kilohana is a welcome residential development that meets affordable housing needs for the community, as well as re-energizing this part of Ward Avenue. The project was constructed from November 2016 to March 2019 and for approximately $219 million.

Honor Award, Ke Kilohana Under Construction

Honor Award Winner: Kaiser Permanente (KP) Moanalua Medical Center Water Tanks
Entering Firm: Coffman Engineers
Client/Owner: Kaiser Permanente

Coffman Engineers, Inc.’s design of a reliable, clean domestic water supply was critical to Kaiser Permanente Moanalua Medical Center’s future operations and patient care and should a prolonged city water service interruption occur. The designed system provides an emergency water supply of 75,000 gallons to sustain 5.2 days of operations for domestic use. Coffman’s mechanical and electrical engineering team designed a dependable, pressurized system that saves the client energy costs and reduces maintenance costs. The project team delivered the fully redundant system that enables the hospital to meet the water supply standards of an emergency hospital and designed the system to adapt to fit a significantly tight project site. The Coffman team met the client’s budget and adhered to the project’s schedule. Coffman met the challenges posed in design and construction without interruption in water service or to hospital operations.

Honor Award, A view showing the proximity of the steep hillside beside the site, and the camouflage of the surrounding vegetation.

Congratulations to all of this year’s award recipients, all projects were commendable and exemplary examples of engineering. Mahalo to this year’s sponsors, the event would not be possible without their support and generosity.

Hawaii Section 2019-2020 OFFICERS

www.aacehawaii.com

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Secretary      Will Sparks
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AACE Hawaii Section is pleased to announce an upcoming seminar, by Christian Heller, the Director of Technical Guidance at AACE International Headquarters, and Penny Whoolery, the Manager, Certification & Membership at AACE International Headquarters. An overview of the AACE’s eight certifications will be examined, outlining eligibility requirements and examination objectives. Please RSVP at aacehawaii@hawaii.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.

Wiliki
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YMF President: Kapiolani Street, P.E.
email: kstreet@ascehawaiiymf.org

EXECUTIVE COMMITTEE MEETING
Last held: Feb 4, 2020
Next meeting: Mar 5, 2020

ASCE HAWAII SECTION DINNER MEETING
Program: T.B.D

Check our website at ascehawaii.org for updates and an email will be sent out to membership with more information.

Speakers: T.B.D
Date: T.B.D.
Location: T.B.D.
Time: 5:30pm Social Time
6:30pm Dinner
7:00pm Program
Menu: Multi-entrée buffet
Cost: $35.00 for ASCE Members
$40.00 for Non-Members and Guests
$20.00 for ASCE Student Chapter Members

COMMITTEE POSITIONS
ASCE Hawaii is looking for volunteers to fill the following committee positions: Local Legislative Affairs Chair and Student Practitioner Advisor. If you are interested or have questions on any of these positions, please contact President Jason Kage, jkage@ascehawaii.org.

MEMBERSHIP
If you haven’t already done so, please renew your ASCE membership. You can renew your membership at www.asce.org.

ASCE JOB LISTINGS
The following job listings are currently posted on the ASCE Hawaii Section website:
- AECOM (Civil Engineer II)
- Belt Collins (Civil Engineer II, Civil Engineer P.E., Senior Project Manager)
- Booz Allen Hamilton (Senior Civil Engineer and Wastewater Specialist)
- City and County of Honolulu (Civil Engineer III, IV, V, Mechanical Engineer V, & Electrical Engineer V)
- G70 (Civil Designer, Civil Engineer, Civil Project Manager, Construction Manager)
- HDR (Senior Civil Engineers, Senior Federal Project Manager, Project Manager – Transportation Group, & Water/Wastewater Engineer)
- Hirata & Associates (Geotechnical/Civil Engineer – Project Engineer)
- Jacobs (Civil Engineer)
- Kennedy/Jenks Consultants (Project
- Nagamine Okawa Engineers Inc. (Structural Engineer)
- PGH Wong (Change and Claims Manager, Change and Claims Specialist, Civil/Building Inspector, Office Engineer, & Scheduler)
- SSFM (Civil Engineers V, Structural Engineer IV)
- US Army Corp of Engineers (USACOE) (Interdisciplinary Project Manager, GS-12)

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

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lauren@bondedmaterials.net
Past President    Kevin Nakamoto
pukapig@yahoo.com

Deadline for Wiliki
is March 15th

Upcoming Events
For registration, see seaoh.org or email flyers.
- MIH Seminar – Masonry Code Updates and Design of Tall Masonry Walls. March 12, 2020, 8:00 a.m. to 1:30 pm, at Pearl Country Club. Contact Rod Haraga at 808-782-8661 for additional information.
- MIH Seminar – Masonry Mortar and Grout Specifications. April 16, 2020, 7:30 a.m. to 11:30 a.m., at Pearl Country Club. Contact Rod Haraga at 808-782-8661 for additional information.

Membership Applications
Applications were received from:
- Noemaikealoha’ulei Lum, MKE Associates, Associate member
- Leah Miyasato, MKE Associates, Associate member

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

Next Meeting on March 4, 2020. For information, contact SEAOH President Danny Fujioka at dannyf@nagamineokawa.com
End PROMPTLY at 1:00 pm for over 110 Fridays. Meetings start at NOON and have location updates.

Validated parking is available (enter from Topa Tower downtown Honolulu 745 Fort Street.

Past President    Dave Martin                        543-4504
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WEB address: [www.eahawaii.org](http://www.eahawaii.org)

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

March 20: Kase Kaneko and Eric Matsumoto, Structural Engineers KSF, Inc.; will present their ACECH award winning project – Engineering the future’, Kosasa Community Redevelopment Project at Punahou School. Prime consultant for this $88 million dollar Grades 2 thru 5, Punahou School, was Design Partners, Inc. This certified Gold - LEED project was educational inquiry-based learning philosophy to further its sustainability and green building goals:

a. to make its students aware of living things, careful of resources and to understand the preciousness of water.

b. to create innovative uses of existing stormwater treatment, management and resource techniques in harvesting of rainwater and distributing to gardens.

c. to teach its students as learning tool in classrooms for sustainable water resource in natural environment.

March 20: Brandon Uejo, Secretary buejo@ascehawaiiymf.org

MATHCOUNTS
On Saturday, February 8th, eleven YMF volunteers assisted in scoring this year’s MATHCOUNTS Honolulu Chapter Competition—an island-wide math competition for 6th, 7th, and 8th graders. MATHCOUNTS, a national foundation, organizes programs and competitions dedicated to the enrichment of middle-school mathematics. YMF sends congratulations to all of the participating coaches and mathletes on a great contest and wishes good luck to the winners, who will be advancing to the State Competition in March.

The current Group Leadership Team (GLT) is still seeking candidates for Section offices for the next ASME fiscal year, July 1 to the following June 30. The GLT includes the Section Chairman, Vice-Chairman, Treasurer, Secretary, Group Page Administrator, and two Members. Since the list of confirmed GLT members (officers) must be sent to ASME by June 30 each year, the deadline this year for volunteer nominations submittals is April 30, 2020.


NEXT ASME-HAWAII GENERAL MEMBERSHIP MEETING
Date: (Date yet to be determined)
Time: from 5:30 pm to 7:00 pm
Place: Johnson Controls, previous meeting was held at the 550 Paiea Street office.

As usual, all members, students and guests are invited and encouraged to attend our meetings. There are always lots of complimentary refreshments. Please contact Chairman Froilan Garma for directions and for more information, such as parking.

PROFESSOR CHOU CELEBRATES 100th BIRTHDAY
Professor James Chou celebrated his centennial January 13, 2020. He is currently one of three Department of Mechanical Engineering, University of Hawaii at Manoa, Emeritus Faculty. Being quite old myself I remember Dr. Chou when I was an ME student long ago in the late 60’s. Dr. Chou retired from teaching at the age of 68, doing the math that was back in 1988. Nowadays Dr. Chou can be seen in the Pearl City-Aiea areas, especially at the 24 Hour Fitness Pearl City. Advice he usually shares is, “You need to be nice to people; every action receives a reaction.” Happy 100th Birthday Dr. Chou!

CALL FOR VOLUNTEER NOMINATIONS
The current Group Leadership Team (GLT) is still seeking candidates for Section offices for the next ASME fiscal year, July 1 to the following June 30. The GLT includes the Section Chairman, Vice-Chairman, Treasurer, Secretary, Group Page Administrator, and two Members. Since the list of confirmed GLT members (officers) must be sent to ASME by June 30 each year, the deadline this year for volunteer nominations submittals is April 30, 2020.


NORTHWEST PROFESSIONAL SECTION LEADERS MONTHLY CALLS
Hawaii Section Leaders call in to monthly telecon. These monthly calls are for one hour with email follow up with notes of meeting, agendas and newsletters. The next call is Tuesday, March 17.

A new Sections Support team was formed with a goal to improve communications with the volunteer section leaders by sending monthly newsletters sharing highlights and best practices while keeping leaders informed of important upcoming events and deadlines.

ASME is committed to ensuring members have an opportunity to engage with fellow members within their section. Section leaders play a crucial role in welcoming members, and sections are crucial to members’ satisfaction. To help facilitate this opportunity, ASME assembled a team of professionals with experience with non-profit organizations. Their focus is on supporting Professional and Student Sections by opening lines of communication, building relationships and engaging volunteers.

Dog Day Social
On Sunday, February 9th, eight YMF members and four of their furry friends came down to Bark Park near Diamond Head to have a fetching morning. The skies were clear but there was a gentle breeze to make it a paw-fect weather for the dogs to run around and members to hang out with their friends and play with their canine companions. It was paw-some to watch the dogs make new friends and inspired us all to be as social as them. Thank you all the YMF members for coming and making it a fun and relaxing day. It would not have been paw-sible without you!
Hawaiian Electric volunteers at the piko of the Kamehameha Middle School Campus

2020 MATHCOUNTS RESULTS, from Page 1

Hawaiian Electric volunteers at the piko of the Kamehameha Middle School Campus

As with more recent competitions over 100 volunteers were needed for scoring, tallying, proctoring, scoring judges, and for the refreshments crew. The volunteers came from Hawaiian Electric Company, U.S. Army Corps of Engineers (USACE), ASC Young Members Forum (YMFF), ASME, and the Department of Education. Thanks to Kevin Araki for recruiting USACE volunteers, and to Sadielyn Arakaki and Shane Sasaki who assembled the ASCE YMFF volunteers.

Helping with the awards presentation this time were Dr. Steve Caley, Vice Principal, Kamehameha Middle School Kapalama; Joseph Manfre, Mathematics Educational Specialist, Department of Education; Robert Isler, Vice President Power Supply, Hawaiian Electric Co., Inc.; and Sara Doi, President, HSPE. The Master of Ceremonies was again, Lou Muzzarini, retired USACE, who doubles as the competition moderator. Rosella Motoki, Hawaiian Electric Co., assisted Muzzarini with the competition moderator. Thanks to Kevin Araki for recruiting the volunteers and for the refreshments crew. The volunteers came from Hawaiian Electric Company, U.S. Army Corps of Engineers (USACE), ASC Young Members Forum (YMFF), ASME, and the Department of Education.

Hawaii MATHCOUNTS thanks Kamehameha Schools for again hosting the Oahu Chapter and State Competitions.

The 2020 MATHCOUNTS Oahu Chapter and State Competitions will have the six Oahu schools competing with two outer island schools to determine the Hawaii team. They will also host the State Competition on Saturday, March 14, 2020. The State Competition will have the six Oahu schools competing with two outer island schools to determine the Hawaii team competing in the 2020 Raytheon MATHCOUNTS National Competition on May 9-12, 2020 in Lake Buena Vista, Florida.

US Army Corps of Engineers Scorers & Tallyers

Hawaiian Electric volunteers at the piko of the Kamehameha Middle School Campus

NEXT EXECUTIVE COMMITTEE MEETING
March 18, 2020, 11:30am, Location TBA

WEF MEMBER ASSOCIATION EXCHANGE (WEFMAX) MEETING
April 15-17, 2020, Ala Moana Hotel Registration open: www.wef.org/member-ship/wef-member-associations/wefmax

BIOSSOLIDS/NET ZERO ENERGY CONFERENCE
May 20, 2020, Manoa Grand Ballroom

The 2020 ITE Joint Western and Mountain District Annual Meeting will be held in Honolulu this year! Please join us June 28th-July 1st at Hilton Hawaiian Village for the conference. Early registration ends on April 30th. Regular registration (regular pricing) begins on May 1st. For additional information please visit the meeting website at https://www.westernite.org/annualmeeting, or email Jasmine Teramae-Kaehuaea at jkaehuaea@atahawaii.com.
Professional Directory