wiliki o hawaii
ENGINEER OF HAWAII
VOL. 55 NO. 10 SERVING 2000 ENGINEERS & LAND SURVEYORS DECEMBER, 2019

### American Society of Civil Engineers, Hawaii Section
## 2019 OCEA Grand Award and Best Special Project

The Keauhou Beach Hotel and Site Demolition project is an outstanding civil engineering achievement. The demolition of a 7-story, 309-room hotel is typically not a high-profile project. However, when it is built in and over tide pools and located close to coral reefs and on a parcel with 12 significant historic properties, including the remains of 4 ancient heiau, it becomes a permitting and design challenge - one which Belt Collins Hawaii and the consultant team undertook for Kamehameha Schools in the interest of redeveloping the parcel as the Kahalu'u Ma Kai educational center.

Due to the construction in the tide pools, the project's permits and approvals included a Department of the Army Nationwide permit, County of Hawai'i (County) building and grading permits, and a National Pollutant Discharge Elimination System permit for construction storm water discharges. Belt Collins also supported preparation of the Environmental Assessment, Site Plan Approval from the State of Hawai'i (State) Department of Land and Natural Resources (DLNR) Office of Conservation and Coastal Lands and a Special Management Area (SMA) permit from the County for the work.

The demolition scope of services included coordinating wetland determinations; preparing construction documents for the building and site demolition; processing agency and permit approvals; and coordinating the topographic surveying, hazardous materials abatement and water quality monitoring.

In the interest of maintaining site elevations in the Federal Emergency Management Agency (FEMA) VE and AE Zones, it was necessary to retain the existing hotel basement walls. From the available construction drawings and site investigations, the structural integrity of the walls was questionable. After assessing options, it was decided to construct new walls within the basement on the interior of the existing walls for support.

Soft demolition of the hotel commenced in May 2017 and was completed in September 2017 with the removal of all interior materials. The demolition of the hotel was completed in August 2018 and sequenced to remove the portion of the hotel located in and over the tide pool by March 18, 2018, corresponding to the Nationwide permit's expiration date.

The project met the client goal for sustainability by diverting more than 20,000 tons of construction material away from the West Hawai'i Sanitary Landfill. Over 90 percent of all construction material generated from the building and site demolition work was recycled or salvaged and reused. An adjacent heiau was not disturbed, and the green sea turtles continued to visit the area throughout the work.

***High reach structure removal. Photo provided by Kiewit Building Group, Inc.***

The demolition of the hotel in the tide pools and shoreline area required various federal, State, and County permits and approvals and compliance with the conditions therein. Project success required the timely satisfaction of the following elements.

- Consult with the US Army Corps of Engineers and State Department of Health, Clean Water Branch; prepare the Nationwide permit and Section 401 Water Quality Certification (WQC) application; and meet the conditions of the Nationwide permit and 401WQC.
- Coordinate with the Client's archaeological consultant to incorporate the State Historic Preservation Division requirements into the contract documents, including establishing buffer zones with temporary fencing and signage around historic features; educating construction crews on preservation area locations, buffer zones and restrictions; and having on-site archaeological monitoring including a pre-construction briefing.
- Complete the hotel and site demolition activities in accordance with the Final Environmental Assessment.
- Comply with all conditions of the State DLNR Site Plan Approval and County SMA permit.
- Coordinate the protection of the twelve significant historic properties with the State Historic Preservation Division.
- Consult with the State DLNR Division of Forestry and Wildlife and process a permit application to relocate an endangered Loulu palm (Pritchardia affinis) within the project site.
- Prepare approved Construction Drawings and Contract Documents for the hotel and site demolition, including the removal of hazardous materials and soft demolition of the building's interior.

***continued on Page 6***

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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.

**HAWAII COUNCIL of ENGINEERING SOCIETIES**
**P.O. Box 2873**
**HONOLULU, HAWAII 96802**

HOME PAGE: *hceshawaii.org*
EMAIL: *hcesorg@gmail.com*

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founded 1902

**PO. Box 1901, Honolulu, HI 96805-1901**
**An association for Hawaii's Engineers and Architects**
**WEB address:** *www.eahawaii.org*

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FILIPINO AMERICAN LEAGUE OF ENGINEERS & ARCHITECTS
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Website: http://www.falea.org

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**NOMINATIONS WANTED**

Nominations for the Young Engineer of the Year candidates will be accepted beginning in 1 November of 2019. Nomination forms will be available on the HCES website at http://hceshawaii.org/. The awardee will be presented at the Engineer's Week Banquet On February 22, 2020. Submit completed nomination forms and any questions to FALEA@falea.org. The deadline for nominations is December 27, 2019. Mahalo!

The Filipino American League of Engineers and Architects (FALEA) will hold their annual Christmas party at Max of Manila on Sunday, December 15. The Christmas party doubles as a scholarship award ceremony where FALEA presents $10,000 in scholarship awards to graduating high school and current college students. This year, FALEA raised funds through a golf tournament to recognize scholarship and community contributions.

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**2019 December EAH Program**

Program Chair: Aaron Erickson 1st VP

Upcoming meetings: December 6th and December 20th program to be announced. EAH's meeting location is Room 301 in the Topa Tower downtown Honolulu 745 Fort Street. Validated parking is available (enter from Nimitz). Visit *eahawaii.org* for directions and a map and any Program schedule or meeting location updates.

Meetings start at NOON and have ended PROMPTLY at 1:00 pm for over 110 years.

All are Welcome. Lunch is $10.00 for Members, $12.00 for guests and $5.00 for students. Drinks and refreshments are complimentary. Brown baggers welcome. $2.00 donation is gratefully appreciated if not having lunch.

**Meeting Notes** – September 6, 2019

Speaker: Fabrizio Medosi, Architect President Pacific Atelier

Subject: "Brunelleschi's Dome in Florence Italy"

Fabrizio provided excellent tour and history of Brunelleschi's Dome, we almost felt we were in Florence Italy. Fabrizio call Brunelleschi an Illusionist as how do you build a dome using only masonry bricks. He claimed to know and was commissioned to build the dome. Fabrizio

***continued on page 7***

**Hawaii Society of Professional Engineers**
*A state society of the National Society of Professional Engineers*
P.O. BOX 3774 HONOLULU, HAWAII 96812

*http://www.hawaiispe.org/*

**HSPE Officers for 2019-2020**

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| | Curtis Beck |
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**NOMINATIONS WANTED**

Nominations for the Engineer of the Year candidates will be accepted beginning in November of 2019. Nomination forms will be available on the HCES website at http://hceshawaii.org/. The awardee will be presented at the Engineer's Week Banquet on February 22, 2020. Please contact Kurt Kunimune of HSPE at *kkunimune@bowersandkubota.com* for nomination forms or with any questions. Nominations will be due by December 27, 2019. Mahalo!

**2020 HCES LIFETIME ACHIEVEMENT AWARD**

CALL FOR NOMINATIONS – Deadline: 18 December 2019

The "HCES Lifetime Achievement Award (LTAA)" is provided annually to recognize the lifetime achievements of an outstanding retired engineer and is bestowed upon this individual who has contributed significantly to the development of engineering in the State of Hawaii, and who has made a noteworthy impact to the local engineering community. This award will be presented at the HCES Engineers Week Banquet on 22 Feb 2020.

The LTAA Selection Committee will select the recipient. Nomination packages shall be preferably submitted via email to *kyoshida@bchdesign.com* or may be mailed to:

Belt Collins Hawaii LLC
2153 North King Street, Suite 200
Honolulu, Hawai'i 96819
Attention: Kristen Yoshida

**Nominations must be received via email or postmarked prior to 18 December 2019.**

**Deadline for *Wiliki* is December 15th**

HWEA
HAWAI'I WATER ENVIRONMENT ASSOCIATION
wef Member Association

P.O. Box 2422 Honolulu, HI 96804
*www.HWEA.org*

**2019-2020 Officers**

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| Deleg-at-Lrg: | Lance Manabe<br>*lmanabe@fukunagaengineers.com* |

**NEXT EXECUTIVE COMMITTEE MEETING**
December 18, 2019, 11:30am, CSM Baseyard – 99-989 Iwaena St

**2020 PACIFIC WATER CONFERENCE (HWEA/AWWA, 7th ANNUAL)**

| | |
|---|---|
| Dates: | Tuesday-Wednesday-Thursday, February 4-6, 2020 |
| Location: | Hawaii Convention Center |
| Co-Chairs: | Jessica Agsalda, Ken Kawahara, Amanda Tanaka |
| Email: | pacificwatercon@gmail.com |
| Donations: | pwchidonations@gmail.com |

Registration is open, go to: (*http://pacificwaterconference.com/registration-info/*)

**Main Conference:**

Early Bird (by Nov 29th, $400 for members; $250 for operators)

Regular (by Jan 3rd, $450 for members; $300 for operators)

Late (by Jan 17th, $550 for members; $400 for operators)

Student rate: $10

Pre-conference: Early Bird - $150 (members/operators), $10 (students)

Regular - $175 (members/operators), $10 (students)

Late - $200 (members/operators), $10 (students)

**Pre-Conference:** Tuesday, February 4, 2020 at Hawaii Convention Center, 8:00am-4:00pm. Program agendas for 5 concurrent sessions are available online (One Water, Wastewater Treatment, Wastewater Operator, Water Operator, Young Professionals).

**Conference:** Wed-Thur, February 5-6, 2020 at Hawaii Convention Center, 8:00am-5:00pm. Technical Program agenda is available online with 6 concurrent tracks, containing 14 presentations in each. Meet and Greet Reception on February 5th at 5:00pm in the Exhibit Hall. Over 100 equipment vendors and other exhibitors will be present. Conference Banquet on February 6th at 5:00pm in the main hall.

**Golf Tournament:** Friday, February 7, 2020 at Hawaii Prince Golf Course. 10:30am registration, 12:00 noon shotgun start. Registration is Open, sponsorship opportunities available. Registration DEADLINE: Friday, December 27, 2019.

**Community Service Project:** Saturday, February 8, 2020, 8:00-noon at loi at Kapalai (916E Auloa Rd, Kailua). RSVP by Friday, January 31 to Kapiolani Street (*kapiolani@tlcghawaii.com*).

ACEC
AMERICAN COUNCIL OF ENGINEERING COMPANIES
*of Hawaii*

**ACEC Hawaii**
*Website: www.acechawaii.org*

**2019-2020 Board of Directors**

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**ACECH Awards**

**Tyler Tsuchida** of **R. M. Towill Corporation** was awarded the $5,000 American Council of Engineering Companies (ACEC) Life/Health Trust Scholarship for the 2019 academic year and was recognized at the 2019 ACEC Fall Conference in Chicago on October 15, 2019. Tyler is working toward a master's degree in Civil Engineering at the University of Hawaii, and is a 2016 graduate of the University of Hawaii with a B.S. in Civil Engineering. Tyler was selected from among a national pool of scholarship applicants based on his interest and commitment to the business and management of the consulting engineering profession, professional experience, grade point average and extracurricular college activities.

***(L-R): ACEC President and CEO Linda Bauer Darr, Tyler Tsuchida, ACEC Chair Mitchel Simpler, ACEC Fellows Committee Chair Dennis Ford***

Funding for the ACEC Life/Health Trust Scholarship is exclusively provided by the Trust which has dedicated its efforts to supporting the health, vision, dental, life and disability insurance needs of ACEC member firms across the country.

**Lennox Nishimura** of **ECS, Inc.** received the American Council of Engineering Companies (ACEC), College of Fellows, Distinguished Service Award at the 2019 ACEC Fall Conference in Chicago on October 15, 2019. Over the past 16 years, Lennox has continuously served ACEC and the Fellows Committee and has made significant contributions to the ACEC awards and scholarship programs. In further recognition of Lennox's tireless efforts, ACEC will also award a one-time scholarship, to be named *The Lennox Nishimura Scholarship*, in 2020.

***Lennox Nishimura (left) and ACEC Felllows Committee Chair Dennis Ford***

Lennox is a member of the ACEC College of Fellows and has served as chair of the ACEC Fellows Committee as well as chair of the Scholarships, Young Professional and Community Service subcommittees. In 2010, Lennox was awarded the prestigious ACEC Chairman Emeritus Award in recognition of dedicated service and outstanding contributions to ACEC and the engineering industry. Lennox is also a past-president of the American Council of Engineering Companies of Hawaii (ACECH), the state affiliate of ACEC.

ACEC is a national federation of more than 5,300 member firms representing over 600,000 employees throughout the country. Its mission is to contribute to America's prosperity and welfare by advancing the business interests of its member firms. ACECH is the State's only nonprofit organization dedicated to enhancing the business climate and promoting the professional environment of engineers, surveyors and industry specialists. ACECH represents a roster of over 66 member firms, employing over 1,500 employees throughout the State of Hawaii. As the state affiliate of ACEC, ACECH is an advocate for laws and policies that protect, enhance and promote the business interests of private engineering companies in Hawaii.

On behalf of ACECH and its member firms, we extend our warmest congratulations to both Tyler and Lennox!

ite HAWAII SECTION
INSTITUTE OF TRANSPORTATION ENGINEERS

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ASCE American Society of Civil Engineers

Hawaii Section — Younger Member Forum
Web site: http://www.ascehawaii.org/ymf.html

**2019-2020 YMF Officers**

Kapiolani Street, President
*kstreet@ascehawaiiymf.org*
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Brandon Uejo, Secretary
*buejo@ascehawaiiymf.org*
Nicole Nakaoka, Past President
*nnakaoka@ascehawaiiymf.org*

**YMF General Meeting**

The next YMF general meeting is scheduled for Wednesday, December 4th, 2019 at 6:00 pm at Bar35. If you are interested in attending and learning more about the various professional, social and service opportunities available through YMF, please contact YMF at *ymf.hawaii@gmail.com.*

**Golf Outing**

On Sunday, October 20th, YMF held a driving range outing at the Newtown Driving Range in Aiea. Six YMF members attended, helped each other out with tips to improve their skills, and also played a little game of who could get their ball closest to the different stakes/objects out in the range. Overall, everyone enjoyed the beautiful afternoon refining their golf skills and networking with other engineers. Thank you to all who participated in this event and much mahalo's for the second time comers. Please keep checking the YMF website for information regarding the next YMF Golf Outing!

**Makapuu Hike**

On Sunday October 27th, fifteen YMF members and 3 furry friends participated in a short morning hike on the Makapuu Trail. The weather was perfect – with a lot of cool breeze and blue skies. Just before Halloween, we had an ice breaker to share our Halloween costumes. After reaching the summit, conversations were shared along with some snacks provided. It was a great hike to kick off the many social events to come!

**Girl Scouts STEM Fest 2019**

On November 2nd, six ASCE YMF members participated in the annual Girl Scouts STEM Fest at the Pearl Harbor Aviation Museum. The YMF volunteers helped the Girl Scouts learn about civil engineering through two activities – designing for earthquakes with spaghetti and marshmallow towers on a shake table and constructing bridges to support the weight of dinosaurs.

Thank you to the Girl Scouts for inviting YMF to be a part of the event – we enjoy coming out and seeing the creativity and problem solving skills in all the girls! Thank you to the YMF members who volunteered their time and to the student chapter members who graciously helped out with the YMF activities in addition to their own!

Hawaii Section ASCE American Society of Civil Engineers

**2019-2020 ASCE Hawaii Section Officers**

| | |
|---|---|
| President: | Jason Kage, P.E. |
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| | email: *earakawa@ascehawaii.org* |
| YMF President: | Kapiolani Street, P.E. |
| | email: *kstreet@ascehawaiiymf.org* |

**EXECUTIVE COMMITTEE MEETING**

Last held: Nov 7, 2019
Next meeting: Dec 4, 2019

**ASCE HAWAII SECTION DINNER MEETING**

There will be no dinner meeting in December. Please have a safe and happy Holiday season.

Our next dinner meeting will be in January 2020. Check our website at *ascehawaii.org* for updates and an email will be sent out to membership with more information.

**Committee Positions**

ASCE Hawaii is looking for volunteers to fill the following committee positions: OMPO Representative. 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:

- **Belt Collins** (Chief Engineer, 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 V (Geotechnical), Civil Engineer III, V, VII, Mechanical Engineer V)
- **HartCrowser** (Geotechnical Engineers – Principal Level & Project Level)
- **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 Manager, Staff Engineer for Honolulu Office and Staff Engineer for Hawaii Office)
- **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)
- **Zane & Associates, LLC** (Facility Planners)

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

The Society of FIRE PROTECTION ENGINEERS

**HAWAII CHAPTER OFFICERS**
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Coffman Engineers
*bigtas@coffman.com*
Vice President: Derick Kam
NAVFAC Hawaii
Secretary: Ferdi Guinto
NAVFAC Hawaii
Treasurer: Sam Dannaway
Coffman Engineers
Director: Mel Harano
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Director: Bob Lohaus

**HAWAII SFPE SEMINAR PRESENTATION**

**2019 NFPA 72**

**National Fire Alarm Code**

The **Hawaii Chapter of the Society of Fire Protection Engineers** are sponsoring this excellent three-day seminar through a special arrangement with the National Fire Protection Association.

Sponsored by: **HAWAII SFPE**

Date & Time: Three-day Seminar
**Wednesday January 29 to Friday January 31, 2020**
8:00 AM - 4:00 PM each day. Registration on Wednesday day is at 7:30 AM

Location: **Hale Ikena, Fort Shafter Golf Clubhouse**

Cost: **$ 1295 per person. The following discounts apply for registrations submitted on/before January 15:**
**$ 1195** for Individual registration
**$ 895** per person for organizations that send 3 or more persons.

For information contact:
Program Chairman, Hawaii Chapter SFPE.
Tel (808) 526-9019 /
Email: *dannaways@coffman.com.*

**ONLINE REGISTRATION & PAYMENT AVAILABLE AT**
***http://sfpehawaii.memberlodge.org***

Hawaii Section
The American Society of Mechanical Engineers

*www.asme-hi.com*

**ASME-HI 2018-2019 Officers**

| | | |
|---|---|---|
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| Vice-Chair | Derick Kam<br>*derickFPE@gmail.com* | |
| Secretary | Jason Frifeldt<br>*frifelj@yahoo.com* | 358-6322 |
| Treasurer | Kevin Dang<br>*dangk001@hawaii.rr.com* | 737-1708 |
| Past-Chair | Derek Sato<br>*derek.sato@hawaiianelectric.com* | |
| HCES Rep: | Froilan Garma | |

**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.
Agenda: A copy of the agenda will be on the Section website.

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.

**ASME HAWAII SECTION AND THE ASME NORTHWEST REGION**

ASME is reaching out to Sections to reestablish the once strong ties after many years of being left alone. It starts with monthly regional leader teleconferences. Hawaii was originally assigned to the Southwest Region (SWR) that includes nine states including California and Texas. We were befriended by the Northwest Region (NWR), includes Washington, Oregon and four Canadian Provinces. The NWR teleconferences are planned for 7 to 8 p.m. Pacific Time slot apparently more convenient for Hawaii than the SWR which are scheduled for 4:30 to 5:30 pm Central Time.

ASME is investing more time and resources in their Professional and Student Sections. Evelyn Taylor was appointed new Director, ASME Sections, Houston office. Three Coordinators have been or are in the process of being hired to act as direct point of contact for Section support.

Nine regions throughout the world were formed and Regional Leaders and Student Section Coordinators appointed by ASME. As part of the NWR, our leader is Judith A. Bamberger PhD, PE. She plans to propose that Hawaii and California be moved to the NWR.

Any Hawaii Section member can attend the monthly teleconferences. Contact Chairman Froilan Garma if you wish to attend.

**PASSING OF NATHAN HENRY "HANK" GELLERT, III**

Hank Gellert, 1984-1985 Hawaii Section Chairman passed away in August 2019. He formed The Gellert Company in 1985 by combining the machinery departments of Hawaiian Equipment Company and Durant-Irvine Company. His business is still located on Waiakamilo Road. When we last heard from Hank, he expressed concern that mechanical engineers were usually passed up for the annual engineer awards, and that we need to try harder and find the deserving MEs and nominate them. MEs can help alleviate this concern by submitting names and biographies of themselves or fellow deserving MEs. Send this information to Ed Chang (*change025@hawaii.rr.com*) at least between November 1 to the end of December each year or sooner.

AACE HAWAII SECTION
Association for the Advancement of Cost Engineering
*HAWAII SECTION*

**Hawaii Section 2019-2020 OFFICERS**
*www.aacehawaii.com*

| | |
|---|---|
| President | Christopher Kanae |
| Vice Pres. | Kristy Kastner, PSP |
| Secretary | Will Sparks |
| Treasurer | Jeanette Roberts |
| Dir. Soc. Med. | Yong Shi, CCP |
| Cont. on the Board of Directors | Maelyn Uyehara (Past Pres.) |

On October 10, AACE held the fifth Networking Event at Catamaran Sunset Cruise. We welcomed 20 members and project control professionals who had a great time socializing and networking with other engineers. Thank you to all who participated in this event. Also, much gratitude to Encore Group for sponsoring this event.

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.*

## ASCE OCEA, from Page 1

• Provide appropriate Best Management Practices as required for the protection of the tide pool, wetlands, and historic properties.

With the cooperation of Kamehameha Schools, the US Army Corps of Engineers, State of Hawai'i, County of Hawai'i, cultural descendants of the area, other stakeholders, Kiewit Building Group, and the consultant team, all deadlines and milestones were successfully achieved. Major achievements were:

• Removing a 7-story, 57,476 square foot structure partly built over tide pools makai of the shoreline and adjacent to a cultural site in compliance with all permits, without incidents, including footing removal from the tide pools.

• Maintaining site elevations in the Federal Emergency Management Agency (FEMA) VE and AE Zones allowing reuse of nearly 1-acre of the site for cultural and educational activities.

• Recycling, salvaging or reusing over 90 percent of the material generated from the building and site demolition work.

• Coordinating with on-site wildlife monitors to ensure no disturbance to endangered or threatened species.

***continued on Page 7***

***In-progress work. Photo provided by Kamehameha Schools.***

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The mission of the Society of Women Engineers is to empower women to achieve full potential in careers as engineers and leaders, expand the image of the engineering and technology as a positive force in improving the quality of life, and demonstrate the value of diversity and inclusion.

**Section News:**

On November 7-9, members of the Hawaiian Islands Professional Section (SWE-HI) and the University of Hawaii at Manoa Collegiate Section (SWE-UHM) attended SWE annual conference WE19 in Anaheim, CA. WE19 attracted over 16,000 attendees attending hundreds of professional development workshops, technical tours and talks, networking events, and panel discussions. This meet-up fosters the mentorship and connection among students and professionals of SWE-HI and SWE-UHM sections.

SWE-HI section leaders led a lot of events at this conference. Pearl Yamaguchi led a panel and Dian Nguyen was a panelist of "Talk Story – Shared Cultural Experience within Affinity Groups." Kristen Yoshida and Dian Nguyen represented the WE Local conference as members of the Local Host Committee and Local Advisory Board. Val Mencias spearheaded the roundtable discussion of the Asian Connections Affinity Group, which supports the Asian community in the workforce and leadership. Last but not least, SWE-HI was proud to receive the Gold Mission Award (the highest honor for SWE groups) and two Best Practice Awards (SWE Resource Promotion and Membership Retention & Engagement.)

See you at WE20 in New Orleans!

***SWE-HI received Mission Awards at WE19***

***Members (Oahu, Maui, Big Island, Arizona, California, Missouri) and friends of SWE-HI.***

***Members of SWE-HI and SWE-UHM sections in front of Anaheim Convention Center***

## ASCE OCEA, from Page 6

• Maintaining public beach access around the construction zone throughout the duration of the work.
• Completing the in-water and over-water work within the permit coverage period and avoiding permit extensions.
• Avoiding disturbance to marine habitat and archaeological/cultural sites in proximity to the work area.

The demolition of the Keauhou Beach Hotel, located in tide pools, is a major engineering achievement demonstrating the benefits resulting from the civil engineer's comprehensive understanding of the design, regulatory, environmental, and cultural requirements to meet client expectations. With the completion of the hotel demolition, the 22.73-acre shoreline parcel will be redeveloped into an educational center that will focus on Native Hawaiian 'āina-based science, technology, engineering and mathematics (STEM) programs and arts education for keiki and kūpuna.

***Over-water structure removal. Photo provided by Kamehameha Schools.***

## EAH, from Page 2

asked which geometric shape does the dome most resemble a cone, egg, cylinder or a triangle? Fabrizio answer was a triangle as the dome is made from a series of curved triangles. The dome was a construction method to build a clear space without the obstruction of interior columns. The entire Iolani Palace could fit inside the space created by the dome, with an inner diameter of 136 feet. The interior height is about 280 feet or about a 20-story modern building. The exterior height is over 360 feet or over a 25-story building. Construction of the dome started in 1420 and was completed in 1436. 4 million bricks were used. There are 2 domes, an inter structural dome and outer plaster dome. The inner dome is 7 feet thick, with a 4-foot passage and a 3 foot outer dome. It was built with brick because the Roman formula for concrete had been lost.

**Meeting Notes** – October 18, 2019

Speaker: Renee Espiau, AICP Complete Streets Administrator

Subject: "Complete Streets: On A Roll"

Renee provided a very complete brief on the Complete Streets program for Honolulu. It is actually a City Ordinance 12-15. Some of the goals are safety, accessibility and mobility for all, best practices, energy efficiency, opportunities for physical activities, incorporate trees and landscaping. She noted that for accidents between vehicles and people at 20 mph 1 in 10 will be killed, at 30 mph 5 of 10 are killed and at 40 mph 9 of 10 are killed. She reported that since the King St bikeway was installed in 2014 there has been about an 80% reduction of pedestrian accidents. On South Street they will be testing permeable paving to allow more rainwater to pass through it rather then going into the storm drains. Some of the changes they have been making are two-way protected bike lanes, buffered bike lanes and curb extensions. Not everything works, but they can revise and change as they learn what works and what doesn't. The success of the Biki bike rental business is an indication that Honolulu has reached a certain level of bike friendliness.

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