

Electric Lighting of the Kingdom of Hawaii 1886-1888 RECEIVES Global Recognition as an IEEE (Institute of Electrical & Electronics Engineers) Milestone *Iolani Palace honored for Lighting the Way*

By Sophia Tang, IEEE Hawaii Milestone Award Chairperson

What started out as a conversation at a monthly dinner meeting among members of the IEEE Hawaii Section 1½ years ago evolved to a Milestone team of four from the IEEE Power and Energy Society Hawaii Chapter meeting with the Friends of Iolani that became a celebration of 130 years of amazing, technical achievement in electric lighting of Honolulu since 23 March 1888.

On March 23, 2018, we celebrated the dedication of the **IEEE Milestone Award** to Iolani Palace with a proclamation from Gov. Ige and several speeches including the IEEE President James Jefferies, President of the University of Hawaii David Lassner, Executive Director of Iolani Palace Kippen de Alba Chu and Vice President of Public Affairs at Hawaiian Electric Scott Seu followed by a tour of Iolani Palace and reception.

Electric Lighting of the Kingdom of Hawaii 1886 – 1888

In November 1886, electric light illuminated Iolani Palace's grounds for King Kalakaua's 50th birthday celebrations. By March 1887, the Palace had 325 incandescent lights installed within the 104 rooms. The king's action promoted economic development and accelerated implementation of electric lighting of the town of Honolulu on 23 March 1888

An opportunity arrived in time for the IEEE Hawaii Milestone Award Team visiting Iolani Palace during the annual Queen Kapiolani Evening Tours commemorating Her Majesty's birthday on December 29-30, 2017, including the Throne Room with the 72 electric lights on the original 6 chandeliers. Also, in view is a replica of a telephone installed in 1883 that was used during the monarchy era near the Blue Room. "The first phones (library, Queen's bedroom, chamberlain's office and boat house) were installed in 1881 during construction. *The Pacific Commercial Advertiser* commented that in addition to having internal communications, the king would be able to call the other 75 subscribers. [King] Kalakaua as a result had telephones 6 years before he installed electric lights." said historian, Zita Cup Choy, of Iolani Palace.

The IEEE Milestones program established in 1983 honors significant technical achievements in the history of Electrical and Electronic Engineering, Technical Communications and other designated fields. IEEE Milestones recognize the technical innovation and excellence

for the benefit of humanity found in unique products, services and honor the achievement, rather than a place or a person. To be proposed as an IEEE Milestone, an achievement must be at least 25 years old, have benefited humanity, and must have had at least regional importance. Proposed milestones undergo an extensive process of approval by an advocate, IEEE History Committee and IEEE Board of Directors.

The historic timeline for this Milestone Award is listed below:

- 08/15/1881: On His Royal Highness (HRH) World Tour, King David Kalakaua visited the International Exposition of Electricity in Paris, France.



Fig.1: IEEE group picture at Iolani Palace Milestone Award dedication ceremony.



Fig.2: Iolani Palace Throne Room with 72 electric lights on six chandeliers.

continued on page 4

35th ANNUAL HAWAII STATE MATHCOUNTS COMPETITION RESULTS

The Hawaii Society of Professional Engineers (HSPE) announced the 2018 Hawaii MATHCOUNTS team on Saturday, March 10, 2018. The team includes Coach Sung Park of Washington Middle School and Mathletes Taylor Ann Agena of Highlands Intermediate School, Jared Lo of Punahou School, and Minjae Seo and Felicity Zhou of Washington Middle School. They will represent Hawaii at the 2018 Raytheon MATHCOUNTS National Competition on May 12-15, 2018 in Washington, D.C. The four will be among 224 final Mathletes from 50 states, U.S. territories, State Department and

Department of Defense schools, competing for the title National Champion.

The Hawaii team was determined at the 35th Annual Hawaii State MATHCOUNTS Competition at Kamehameha Schools Kalamia

continued on page 7



2018 Team. L-R: Robert Isler, Coach Sung Park, Taylor Ann Agena, Jared Lo, Felicity Zhou, Minjae Seo, and Barry Nakamoto.



Published monthly by:

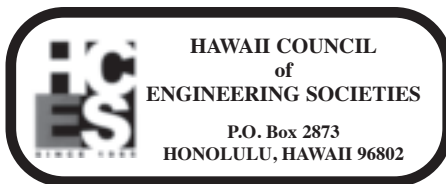
HAWAII COUNCIL OF ENGINEERING SOCIETIES

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 Pukey Avenue • Honolulu, HI 96816
 Telephone: 732-5216

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

2018-2019 OFFICERS

Chair: Kristen Yoshida
 Vice-Chair: Bill Lee
 Secretary: Joe Uno
 Treasurer: Donna Kishi

SOC	Representative	Alternate
AACE	J. Uno	
ACECH	M. Adolpho	
APWA	J. Hiramatsu	
ASCE	T. Goshi	
ASHRAE	D. Kishi	B. Lee
ASME	F. Garma	D. Kam
CMAA	C. Namumnart	R. Ho
EAH	M. Albright	
FALEA		
HSPE	M. Kamaka	K. Kunimizu
IEEE	G. Torigoe	
ITE	W. Yamamoto	
SAME	L. Wong	
SEAOH	R. Lawton	
SFPE	S. Dannaway	
SWE	K. Yoshida	
UHM CoE	S.K. Choi	

Precision, consistency, and firepower! Come see the best of the best when it comes to Hawaii's automotive engineering. The Rainbow Warrior Racing team will be unveiling the 2018 edition of UH's Formula SAE racecar this month. Check it out at the First Hawaiian International Autoshow on April 13-15, 3rd floor of the Honolulu Convention Center.

2018 SAME Honolulu Pacific Industry Forum, Icebreaker Reception, and Golf Event, May 1-3, 2018

SAME Honolulu Post will hold its annual Pacific Industry Forum, Golf Event, and for the first time an Icebreaker Reception. Once again, the events will be open to all SAME sustaining and individual members as well as non-members.

Date/Time/Location:

Icebreaker Reception: May 1, 2018 | 4:30 pm – 7:30 pm | Gordon Biersch Honolulu.
 Pacific Industry Forum: May 2, 2018 | 7:30 am – 3:00 pm | Ala Moana Hotel.
 Golf Event: May 3, 2018 | Tee Times between 12:00 pm and 1:00 pm | Kaneohe Klipper Golf Course | MCBH.

The icebreaker reception, forum and golf event proceeds will support SAME Honolulu Post's scholarship program, construction camps, and youth outreach programs for Hawaii students pursuing their education in engineering or architecture.

The 2018 Pacific Industry Forum will bring SAME sustaining and individual members, non-members, and senior leaders from the Federal, State and County Governments for program briefings, a luncheon, and small business networking opportunities.

To register, visit SAME Honolulu home page at www.samehonolulu.org.

For more information about the Pacific Industry Forum and Icebreaker Reception, email info@samehonolulu.org.

For more information about the optional SAME Honolulu Golf Event, email Matt Stimpson at mstimpson@dudek.com.



Website: hawaii.apwa.net

2017 Officers

President	Ryan Char ryanc@g70.design	523-5866
Vice-Pres	Darin Izon dizon@BrwnCald.com	523-8499
Secretary	Rouen Liu rouen.liu@hawaiianelectric.com	543-7245
Past Pres	Victor Valdez vvaldez@ssfm.com	356-1281

National Public Works Week, May 20-26

National Public Works Week is traditionally sponsored and observed during the third full week in May. During May 20-26, the Chapter will maintain an exhibit of various recent public works projects to energize and educate the public on the importance of the contribution of public works to their daily lives.

This year's theme "The Power of Public Works" gives voice to the impact the many facets of public works have on modern civilization. From providing clean water to disposing of solid waste, to building roads and bridges or planning for and implementing mass transit, to removing snow on roadways or devising emergency management strategies to meet natural or manmade disasters, public works services determine a society's quality of life. APWA

**Save the date!
 18th Annual College of Engineering Dinner**

Thursday, April 19, 2018
 5:00 p.m. - Student/Faculty Exhibits and Cocktails
 6:30 p.m. - Dinner and Program
 Hawai'i Convention Center
 Kalakaua Ballroom, 1801 Kalakaua Ave.

The College of Engineering invites you to an evening with students, faculty, alumni, and friends to honor their achievements in academic and research excellence and outstanding service and leadership.

- Student Project Presentations
- Distinguished Alumni Award
- Outstanding Service Award

Individual seat: \$250

Table sponsorships: Platinum \$10,000, Gold \$5,000, Silver \$3,500, and Bronze \$2,500. Tables seat 10. With your permission, we would like to seat a faculty member or student at your table.

All proceeds will be used to benefit current and prospective College of Engineering students. Last year, more than \$100,000 was raised in support of the College of Engineering.

SPECIAL AWARDS

Distinguished Alumni:

- Ken Kawahara (President, Akinaka & Associates, Ltd.)
- Russell Young (President, Albert C. Kobayashi, Inc.)

Outstanding Service:

- Jonathan Suzuki (Director, EAAUH)
- Edward Yoshimura (Director, EAAUH)

proudly honors the vital contribution public works professionals make every day to communities all across North America, and it invites the public to celebrate their quiet dedication and indispensable influence on our way of life.

Instituted as a public education campaign by APWA in 1960, the Week calls attention to the importance of public works in community life. Through the Week and other efforts, APWA seeks to raise the public's awareness of public works issues and to increase confidence in public works employees and professionals who are the often-unsung heroes of our society. Additional information may be found at www.apwa.net.

25th Annual Education Fund Golf Tournament, April 6

The 25th Annual Education Fund Golf Tournament will be held Friday, April 6 at the Ala Wai Golf Course. Proceeds will sustain the Chapter's education fund which provides annual monetary awards at the Hawaii State Science and Engineering Fair and annual partial scholarships towards higher education tuition to eligible students who major in a public works-related field. Interested golf players may contact Rouen Liu at 543-7245 or rouen.liu@hawaiianelectric.com. Scholarship applications will be available at hawaii.apwa.net.



2017-2018 ASCE Hawaii Section Officers

President: Lara Karamatsu, P.E.
email: lkaramatsu@ascehawaii.org

President-Elect: Eric Arakawa, P.E.
email: earakawa@ascehawaii.org

Vice President: Jason Kage, P.E.
email: jkage@ascehawaii.org

Treasurer: Dayna Nemoto-Shima, P.E.
email: dnemoto@ascehawaii.org

Secretary: Clifford Lum, P.E.
email: clum@ascehawaii.org

Past President: Timothy Goshi, P.E.
email: tgoshi@ascehawaii.org

YMF President: Jordan Urabe, E.I.T.
email: jurabe@ascehawaiiyfmf.org

EXECUTIVE COMMITTEE MEETING

Last held: Wednesday, March 7, 2018
 Next meeting: April 5, 2018

Hawaii Section Members at the Society Level – Horst Brandes

Horst joined the College of Engineering at the University of Hawaii at Manoa in 1996 and is currently a professor of Geotechnical Engineering. He is also president of Applied Geosciences, LLC., a local geotechnical engineering consulting company that he founded in 2004.

Horst is a registered professional Civil Engineer in the state of Hawaii and a member of the American Society of Civil Engineers where he has held the status of Fellow since 2010. He currently serves on several of ASCE's committees at the national level including: Raise the Bar, Civil Engineering Body of Knowledge, Civil Engineering Technologist Body of Knowledge. Horst has also served as Region 8 Governor from 2011 to 2014 and was President of the ASCE Hawaii Section from 2002 to 2003. Horst is also a corresponding member of the Committee on the Civil Engineering Technologist (CET), which advances the integration of CETs into the civil engineering profession and promotes the role of a CET on the engineering team. Horst has contributed to several ASCE publications, two of which will be presented at ASCE's 2018 Education Annual Conference and Exposition in Salt Lake City, Utah.

INFRASTRUCTURE REPORT CARD

The second meeting for developing a Hawaii Infrastructure Report Card was held on March 23, headed by Co-Chairs Amber Takenouchi and Steven Doo. Additional volunteers are welcome — if you would like to participate, please contact Lara Karamatsu, *lkaramatsu@ascehawaii.org*.

CONTINUING EDUCATION

Please visit <http://www.ascehawaii.org/links.html> and click on ASCE National for complete details.

April Dinner Meeting

Date: April 26, 2018

Location: Dave & Busters; 5:30 PM Social Time, 6:30 PM Dinner, 7 PM Program

Program: **UH Student Chapter** presentation on the ASCE Student Conference and 2017-18 highlights

The Student Chapter will have more than 50 students participating in the Pacific Southwest Conference April 11-14, 2018 at Arizona State

University in Tempe, Arizona.

2018 ASCE Fly-In

Section Treasurer Dayna Nemoto-Shima represented Hawaii at the Legislative Fly-In event in Washington, D.C. March 13-14. The intensive 2-day event provides participants with an inside look at the public policy process and opportunities to carry forth ASCE's key legislative initiatives to the congressional delegation.

Region 8 Director Election

Hawaii Section's own Tony Lau and Dennis Richards from the Arizona Section are the 2018 candidates for Region 8 Director. ASCE Hawaii Section has officially endorsed Tony Lau. Members are encouraged to support Tony during the upcoming voting period in May.

2019 MRLC

Hawaii Section's Younger Member Forum will be hosting the 2019 Western Multi-Region Leadership Conference on March 7-9, 2019 at the Hilton Hawaiian Village. Attendance is anticipated to attract approximately 400 attendees from Regions 8 & 9 and Society leaders. If interested in assisting, please contact Conference Co-chairs Norman and Amanda at *yfmf.hawaii@gmail.com*.

Committee Positions

ASCE Hawaii is looking for volunteers to fill the following committee positions: History & Heritage Chair and Report Card Committee members. If you are interested or have questions on any of these positions, please contact President Lara Karamatsu, *lkaramatsu@ascehawaii.org*.

Outreach Committee

The 2018 ASCE Hawaii Popsicle bridge contest was held at University of Hawaii-Manoa Holmes Hall on Friday, March 2, 2018. A total of 12 teams from various schools around Oahu participated.

Hawaii Section will be partnering with YMF to attend the Hawaii Tech Academy's STEM night in April. Program will include games and other activities for the students to do to learn about civil engineering.

Membership

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



2017-2018 YMF Officers

Jordan Urabe, President
jurabe@ascehawaiiyfmf.org

Nicole Nakaoka, Vice President
nnakaoka@ascehawaiiyfmf.org

Austin Wong, Treasurer
awong@ascehawaiiyfmf.org

Kapiolani Street, Secretary
kstreet@ascehawaiiyfmf.org

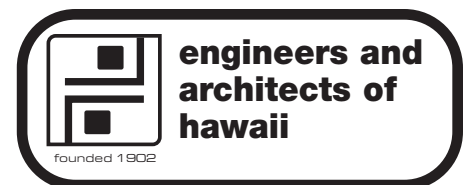
Norman Leong, Past President
nleong@ascehawaiiyfmf.org

YMF General Meeting

The next YMF general meeting is scheduled for Wednesday, April 4, 2018 at 6:00 pm at Honolulu Beerworks. 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*.

HCES Engineering Week

On Monday, February 19, five volunteers from ASCE YMF hosted interactive activities and shared information about the civil engineering profession at the Hawaii Council of Engineering Societies (HCES) E-Week Kickoff event at Windward Mall. As elementary and middle school students proudly competed in the VEX IQ Robotics Challenge, YMF members assisted visiting students with two interactive activities. The first activity taught students ways to make our community sustainable by searching through ASCE's "Greenville" for sustainable practices. For the second activity, students put their design and building skills to the test by constructing a bridge using only plastic straws and masking tape as building material. Student would then test the bridge's ability to hold as many pennies as possible before breaking. YMF members also shared a display explaining what civil engineering is and the type of work civil engineers do. YMF members were also thoroughly impressed with the students' presentations and competition of their robots. Thank you to all our ASCE YMF volunteers for volunteering and "inspiring wonder" in civil engineering!



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

WEB address: www.eahawaii.org

EAH 2016- 2017 Officers

President	Dave Martin	543-4504
1st VP	Howard Wiig	587-3811
2nd VP	Open	
Treasurer	Aaron Erickson, PE	591-2728
Secretary	Gary Yamamoto, PE	485-2777
Stg-At-Arms	Martin McMorrow	256-4713
Director	Phil Blackman	
Director	Bill Brizee, AIA	523-9636
Past Pres	Michael Albright	

EAH's new meeting location is Room 301 in the Topa Tower (Ewa tower on Fort Street; Old AMFAC Building). Validated parking is available (enter from Nimitz). The WEB site has been updated to provide directions and a Map. If you have questions please call Sam Gillie (543-4739).

Meetings are held every Friday (except Holidays). Meetings start at NOON and have ended PROMPTLY at 1:00 pm for 70 Years. Program schedule may be adjusted. Call Sam Gillie to confirm speaker 543-4739; Fax 203-1335.

Lunch is \$10.00 Members, \$12.00 Guests. (All Welcome), Students Free. Drink refreshments are complimentary. You may bring your own lunches, in which case a \$2.00 donation is gratefully appreciated!!

Electric Lighting, from page 1

- 09/26/1881: King David Kalakaua visited Thomas Edison, inventor of the light bulb, in New York City for demonstration of DC electric light. HRH King Kalakaua was to decide if Honolulu should use gas or electricity for lamp/lighting.
 - 07/21/1886: First demonstration of DC electric light in Hawaii-one (1) light at Iolani Palace, 1 light at Government building, 1 light on Richard Street and 2 lights on King Street.
 - 11/25/1886: To celebrate King Kalakaua's 50th birthday, a Jubilee Ball with 10-arc lights of 2,000 candle power lit Iolani Palace grounds.
 - March 1887: Three hundred twenty-five (325) incandescent lights were installed at Iolani Palace with 72 lights in the Throne Room and another 150 lights were installed at the Royal Hawaiian Hotel on Hotel Street.
 - June 1887: The dynamo power plant located on Palace grounds provided power for the lights. [Four (4) years before the White House had Electric Lighting.]
 - 03/21/1888: The Daily Bulletin Article "Honolulu Electric Works" energized dynamos for 50-arc lights and 12-arc lights. Dynamos and lamps were supplied by Thomson-Houston Co. of Massachusetts, [which eventually became **General Electric**].
 - 03/23/1888: Town of Honolulu lighted by electricity on the evening of March 23, 1888, when Her Royal Highness (HRH) Princess Liliuokalani turned on the circuit at the Nuuanu Electric Light Station.
 - 03/24/1888: The Daily Bulletin Article "Electric Lighting of Honolulu" energized two circuits run by a large and small dynamos at the Electric Light Station [hydroelectric plant] in the [Nuuanu] Valley. Long circuit is 15 miles and short is 6 miles on 46 poles.
 - 1893: The electric plant was purchased from Kalakaua's estate by the Provisional Government who sold it the following year in 1894 to **Hawaiian Electric**. The plant was then moved into a larger building on the corner of Alakea and Halekauwila Streets.
 - August 2017: Over 1,000 LED lights were installed to illuminate Iolani Palace, resembling King Kalakaua era with the original chandelier fixtures in the Throne Room, with a reduction in energy usage at a cost savings of \$1,200.00 a month.
 - 03/23/2018: **IEEE Milestone Award**, "Electric Lighting of the Kingdom of Hawaii 1886-1888", commemorating the 130th anniversary of Electric Lighting of the Town of Honolulu since 03/23/1888.
- On July 29, 1891 *The Electrical Engineer*, vol. 12 had an article on "Electrical Development In The Sandwich Islands" highlighting hydro-electric plants (dynamos driven by water-power) for electric lights and also mentioned "submarine cable between the sandwich islands (Hawaii) and the American Continent" for communications.

About the author, *Sophia Tang*: A graduate of University of Hawaii with a BA in Math & a BS in Electrical Engineering (EE) and a graduate of University of Houston with a Master in EE, Ms. Sophia Tang is a senior member of IEEE

Hawaii, who has had over 30 years of career experiences in the field of electronic engineering including aerospace & electronic system design, testing, implementation, program and technical management. Currently, she serves as the IEEE Hawaii Milestone Award Chairperson.



Fig.3: Iolani Palace Telephone.



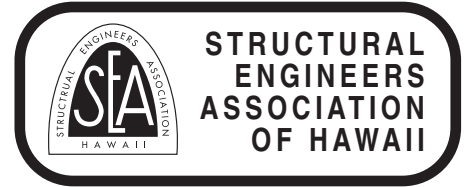
2017-2018 ITE Officers

- President: Chad Kadokawa
ckadokawa@atahawaii.com
- Vice Pres.: Claire Fukuoka
cfukuoka@atahawaii.com
- Sec./Treas.: Cristina Rodriguez
crodriguez@atahawaii.com

The ITE Hawaii Section will be hosting their next meeting on Wednesday, April 18th at Wilson Okamoto Corporation, located at 1907 South Beretania Street, Suite 400. Guest speaker will be Tom Mericle, Western District Legislative Committee Chair on the "Legislative Changes in California - Senate Bill 743 and Assembly Bill 390". Please email *crodriguez@atahawaii.com* if you are interested in participating in this event.

Also, Hawaii Section is seeking nominations for Secretary-Treasurer for the upcoming 2018 elections. Any interested parties should contact Sara Okuda, Hawaii Section Director, by the email shown above.

**Deadline for
Wiliki
is April 15th**



PO BOX 3348, HONOLULU, HI 96801
Web Page URL <http://www.seaoh.org>

2018 BOD OFFICERS AND DIRECTORS

- President: Jeffrey Cudiamat 488-5000
jcudiamat@structuralhawaii.com
- Vice President: Kevin Nakamoto 356-1237
knakamoto@ssfm.com
- Secretary: Craig Meierhoffer 534-1300
cmeierhoffer@baseengr.com
- Treasurer: Eric Tomishima 486-5202 x 4
eric@iwamotollc.com
- Director (Yr 2): Michael Greer 591-2728
mgreer@wje.com
- Director (Yr 2): Deborah Kim-Ito 271-2862
dkimito@jbmaterials.com
- Director (Yr 1): Kainoa Aki 292-4473
Kainoa.aki@basf.com
- Director (Yr 1): Jillian Sumitomo 488-7579
jillian@mkellc.com
- Past President: Jonathan Murai 791-3952
jmurai@kaihawaii.com

PREVIOUS BOD MEETING

March 7, 2018

Congratulations

SEAOH would like to send a belated congratulations to the 2018 Engineer of the Year, Ron Iwamoto. Mr. Iwamoto served as the 2010 President of SEAHO, and has also served as a volunteer on SEAHO's Disaster Response Committee. More information on Mr. Iwamoto's achievements can be found in February's Wiliki.

General Membership Meetings/Technical Seminars/Events

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

- SEAHO is planning a tour of GPRM's precast plant for April's Programming Event.
- May's Programming Event is slated to be about geotechnical engineering for alternate foundation systems.
- June's Programming Event is scheduled to be a webinar.

2018 SEAHO Convention

Check your calendars!! The convention has been scheduled for September 14-15 at Aulani. Keep an eye out for a save-the-date flyer in the near future.

Committee Volunteer Opportunity

The current Disaster Response Committee Chairperson is planning to step down during the first half of this year. The BOD is actively seeking any SEAHO member willing to help lead this committee. If interested please contact a board member.

New Member Applications

Applications for the following individuals have been received and are open for comments from the membership: Stephanie Kuroda for Associate Member. Ruth Bribiesca for Associate Member.

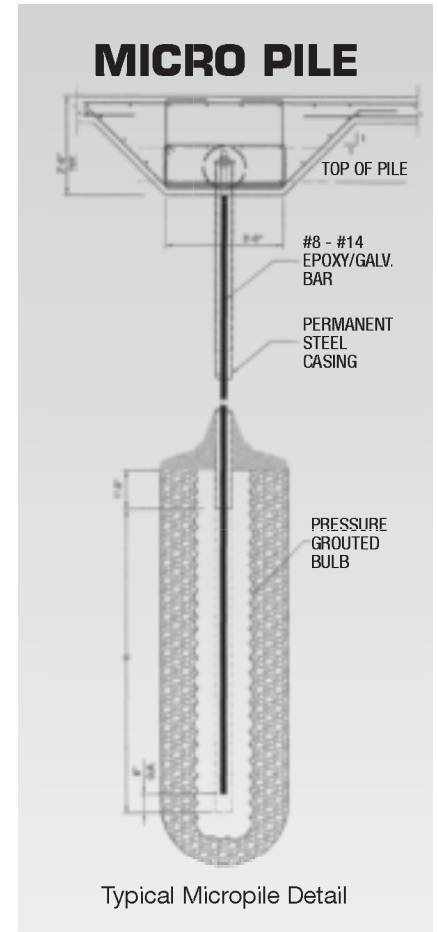
Next Meeting on April 4, 2018. For information, contact SEAHO President; Jeffrey Cudiamat *jcudiamat@structuralhawaii.com*



STRUCTURAL SYSTEMS, INC.

General Engineering • Foundation Systems • Micro Piles

MICRO PILES As defined in FHWA-RD-96-016 “Micro-piles are small diameter drilled and grouted reinforced piles used for both structural support and insitu earth reinforcement.” Typically less than 10” in diameter, allowable design capacities frequently exceed 100 kips and our crews have performed testing in excess of 225 kips or over 100 tons. Micro-piles are frequently used where a deep foundation system is required in difficult substrata conditions, or where driven piles or large diameter systems are impractical due to subsurface obstructions, or limitations presented by existing buildings at or adjacent to the project site.



Capabilities, Benefits & Advantages

- Limited Access and Low-overhead Equipment
- Design/Build Projects
- FHWA Compliant
- High Bearing & Tension Capacities (100 Tons)
- New Construction
- Cased or Un-cased Systems
- Hollow-bar Injection Anchors & Piles
- Atlas & Chance Helical Piers
- Remedial Underpinning
- Foundation Releveling
- Load Transfer
- Soil Nails, Gunite
- Slope Stabilization
- Compaction Grouting
- Uretex, Slab Releveling



Since 1985 in Hawaii, Structural Systems and its allied company Kelikai have compiled decades of experience installing deep foundation systems. Our experience includes a range of piling systems for bearing support, and a selection of differing anchor systems for tension applications. Additionally, we are authorized installers of the Atlas and Chance brands of pre-engineered foundation systems for both new construction and remedial/underpinning applications. Hawaii has widely variable and difficult subsurface conditions. With their experience, our staff and field crews are peerless in their ability to address all the differing geotechnical conditions unique to Hawaii.



STRUCTURAL SYSTEMS, INC.

General Engineering

P.O. Box 30296

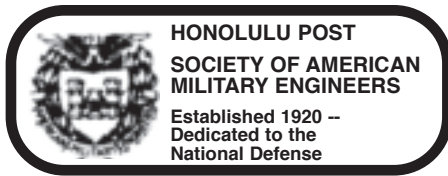
Honolulu, HI 96820

Telephone: (808) 845-2474

Fax: (808) 847-2966

Email: structurs001@hawaii.rr.com

website: WWW.SSIHAWAII.COM



P.O. Box 31218, Honolulu, HI 96817
Web page: www.samehonolulu.org

SAME Honolulu Officers and Directors

President	Col Scott Warner, USAF
VP/Programs	Leighton Wong, PE
VP/Sustaining Members	Will Boudra, F.SAME, USN (Ret) Wesley Ishizu
VP/Membership	Major Jonathan Polston, USAF
Secretary	David Brotchie, PE
Treasurer	
Regional VP, Pacific Region	Richard Stump, AIA, F.SAME
Advisor at Lge, Air Force	Col Mickey Addison, USAF
Advisor at Lge, Army	MAJ Andrew Johannes, USA
Advisor at Lge, Civilian	John Lohr, Col, USAF (Ret)
Advisor at Lge, Coast Guard	LCDR Todd Wimmer, USCG
Advisor at Lge, Navy	LCDR Nathaniel Herron, USN

SAME Honolulu April 11, 2018 Lunch Meeting Presentation

To register, visit SAME Honolulu homepage at www.samehonolulu.org.

Topic: Observations of the 2017 Central Mexico Earthquake

Synopsis: This presentation will provide an overview of the devastating M7.1 Central Mexico Earthquake in 2017, and the response and recovery efforts of the region. The presenters will discuss lessons learned from their reconnaissance and implications for improving earthquake safety and disaster resilience.

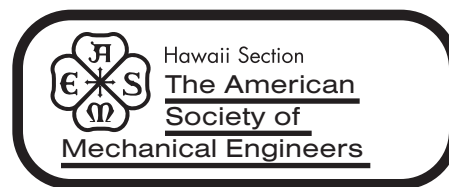
The M7.1 earthquake that severely impacted Mexico City and the surrounding region on September 19, 2017 occurred on the 32nd anniversary of the devastating 1985 M8.0 earthquake, shortly after many residents participated in practice earthquake drills. The 2017 M7.1 Central Mexico Earthquake is a potent reminder of the importance of seismic engineering and the disaster preparedness and response capabilities of our communities. Earthquakes around the globe provide a real-world opportunity for civil and structural engineers to learn more about the devastating effects of these events and how to design and retrofit buildings and infrastructure to provide improved public safety and increased disaster resilience for our communities.

Within a week of the earthquake, Reid Middleton (RM) fielded two earthquake response and reconnaissance teams to perform post-earthquake recovery and reconnaissance work. Much of RM's work was performing earthquake safety assessments for the local government, assisting with engineering and shoring evaluations of collapsed buildings, and investigating earthquake performance of buildings and critical facilities and lifelines infrastructure. RM's teams focused on buildings, critical facilities (hospitals, labs, fire stations, etc.), and infrastructure and lifeline systems (water, wastewater, transportation, power, and telecommunications) performance and disaster resilience.

Presenters: David Swanson, P.E., S.E., F.SEI – David's structural engineering expertise includes the design and seismic rehabilitation of buildings for aviation, civic, commercial, educational, healthcare, and military projects

throughout the western United States and the Pacific Rim. David was named Professional Engineer of the Year by the Puget Sound Engineering Council (PSEC) and Structural Engineer of the Year by the Structural Engineers Association of Washington (SEAW). He was recently appointed to Fellow of the Structural Engineering Institute of the American Society of Civil Engineers (ASCE) and serves on the national Disaster Response & Recovery Committee of the Infrastructure Resilience Division of ASCE. David is a Structural Engineer on FEMA's Urban Search & Rescue (US&R) Task Force and was recently deployed for the 2017 Hurricane Irma response. David organized and led Response and Reconnaissance Teams following the devastating earthquakes and tsunamis in Japan (1995), Taiwan (1999), China (2008), Chile (2010), Haiti (2010), New Zealand (2011), Japan (2011), and the 2017 M7.1 Central Mexico Earthquake. He also played a key role in the leadership and development of the M6.7 Earthquake on the Seattle Fault Scenario Project and is serving on the Steering Committee for the M6.9 San Diego and Tijuana Earthquake Scenario Project.

Kevin Galvez, EIT - Kevin has experience working on a variety of projects throughout the western United States, Hawaii, Japan, and the United Arab Emirates (UAE). His focus has been on the design of new facilities, analysis of existing waterfront structures, repair of existing facilities, seismic evaluations, and seismic retrofit upgrade of existing buildings. While working on the development of innovative disaster response tools for facility and emergency managers in the United States and in the UAE, he has been involved with advanced analysis and modeling techniques for mid- to high-rise structures around the world. Kevin participated in Reid Middleton's post-earthquake reconnaissance following the 2017 Central Mexico Earthquake, and is a member of the Structural Engineer of Hawaii (SEAOH) Younger Member Group (YMG).



www.asme-hi.com

ASME-HI 2017-2018 Officers

Chairperson	Froilan Garma Froilan.B.Garma@jci.com	321-2691
Vice-Chair	Derick Kam derickFPE@gmail.com	
Secretary	Jason Frifeldt frifelj@yahoo.com	358-6322
Treasurer	Kevin Dang dangk001@hawaii.rr.com	737-1708
Past-Chair	Derek Sato derek.sato@hawaiianelectric.com	
HCES Rep:	Froilan Garma	
Alternate:	Derick Kam	

NEXT ASME-HAWAII PROFESSIONAL GENERAL MEETING

Date: April 2018. Date to be confirmed and announced on website.

Time: usually from 5:30 pm to 7:00 pm

Place: To be confirmed.

Agenda: To be determined.

As usual, all members 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.

HIGHLIGHTS OF FEBRUARY 13 ASME-HAWAII PROFESSIONAL GENERAL MEETING

The meeting was called to order by Chairman Froilan Garma at the Johnson Controls office at 420 Waiakamilo Road at 5:45 P.M.

- The HCES Report was given by Chairman Garma.
- Student Section Report: The recent student's Professional Lunch was held in the UHM Campus Center. It was attended by two professionals and 12 students.
- UHM DME Report: The applications for two professor positions are being reviewed. The positions are for thermofluids and mechanics/autonomous. The Francis Rhodes Montgomery Design Competition is projected for May 4, 2018.
- HCES Assignments: Promotional items: Not moving forward. Brochure: Draft completed highlighting 18 of Hawaii's Engineering societies. It emphasizes opportunities for professionals to be a part of these engineering societies and stay engaged in the engineering community.
- ASME PE Exam Refresher Course: No current refresher course scheduled. At least ten candidates are needed to conduct a course. Discussed periodical advertisements in Wiliki to inform engineering community of course. Interested engineers should contact Raymond Liu, via Froilan Garma.
- Tours Planned: Prospects to be announced via email and discussed at next meeting.
- ASME-HI Website: Discussion whether or not to continue the ASME-HI website. The majority present indicated that the web hosting fee will be paid by the Section for another two years.
- Featured Speaker for the Evening: Melissa Onishi presented "Safe & Precise Landing on Mars." Onishi is a second year graduate student at the University of Hawaii at Manoa, pursuing her Master's Degree in Mechanical Engineering with a focus in Control Systems for Space Exploration. Since 2013 she has worked with Professor Dilmurat Azimov solving problems involving trajectory analysis and precise landing on Mars. She was awarded grant opportunities, an internship at NASA Jet Propulsion Laboratory and presented her work at the American Institute for Aeronautics and Astronautics Space Forum in optimizing of trajectory envelopes. She is currently working on determining entry points and sequences along the entry, decent, and landing trajectory to Mars.

FRANCIS R. MONTGOMERY DESIGN COMPETITION

Four design competition judges are needed for the planned May 4, 2018 competition at the UHM campus. The competition judging is scheduled from 12:00 noon to about 5:30 P.M. If you can help or need more information, please contact Ed Chang via email: edmund.chang@hawaiianelectric.com or call 808-543-4227.



CCMAA Hawaii Chapter
<http://hawchapter.cmaa.org>

2018 CMAA Hawaii Chapter Board

President Brook Corney (CH2M)
 Vice President Alex Pascual (Bow CM)
 Secretary Ranelle Ho (SSFM)
 Treasurer Emily Boirum (Bowers + Kubota)
 Chap Past Pres Chandra Namumnart (EKNA Services)

CMAA Hawaii Chapter News:

Aloha CMAA Hawaii! On Thursday, March 15th the bi-monthly Luncheon featured Lori Kahikina, (Director of the City and County of Honolulu, ENV) as the guest speaker. Her topic "Upcoming ENV Projects in FY 18 & FY 19 and General Expectations for CMs". It was a well attended event at a new location, University of Hawai'i, Campus Center. The next bi-monthly Pau Hāna will be on April 19th. Please check emails for updates on location.

As shared in the past, our chapter is here as a resource for all Construction Engineering and Management professionals, and the things that we do benefit not only our CM community but our larger Ohana as well.

If you have any questions regarding any of our upcoming events, would like to join our Ohana and become more involved with the CMAA Hawaii Chapter or would simply like to be added to our email list, please email us at hawaii.cmaa@gmail.com, or at our mailing address; CMAA Hawaii, PO Box 531, Honolulu, HI 96809 Looking for a CCM? The current listing for all Hawaii CCMs can be found here: <https://cmaanet.org/certified-construction-managers-registry> Safety always.

MATHCOUNTS, from page 1

Dining Hall on March 10, 2018, after very intense competition between Mathletes from the Oahu, Hawaii Island and Maui MATHCOUNTS Chapters which included eight finalist schools, and 38 finalist Mathletes. The

ten highest scorers as a result of scores from the Sprint and Target Rounds competed in the Countdown Round with the top four Mathletes from this round making the Hawaii team. These ten competing students included in tenth place Kyle Ching of Iolani School, ninth place Remi Kuba of Punahou School, eighth place Felicity Zhou of Washington Middle School, seventh place Tamlyn Horiuchi of Highlands Intermediate, sixth place Noah Chung of Punahou, fifth place Jordan Wong of Washington, fourth place Adam Inamasa of Washington, third place Taylor Ann Agena of Highlands, second place Jared Lo of Punahou, and in first place Minjae Seo of Washington.

These ten top Mathletes competed in the Countdown Round in a single-elimination, head-to-head, oral round starting with the tenth and ninth place Mathletes. The problem is read and shown on a screen and the Mathletes are given 45 seconds to answer. Calculators are not allowed. The first to press the buzzer answers first, and if wrong, the other Mathlete has the rest of the 45 seconds to answer. In the earlier matches, the first to answer two problems correctly moves on to meet the next higher placed Mathlete. In the final three matches, the first Mathlete to answer three problems correctly moves on.

The Mathlete who had to do the most work was Felicity Zhou. She had to knock off seven Mathletes in order to challenge top scorer Minjae Seo for first place. When it came down to the final two Mathletes, Minjae Seo showed why he was the highest scorer answering three Countdown Round questions correctly and taking first place.

The placement of teams is determined by adding team members' individual scores from the Sprint and Target Rounds plus the Team Round score. Of the eight competing teams, in first place was Washington Middle School, and therefore Coach Sung Park has the honor of being the Hawaii Team Coach at the Nationals in Washington, D.C. The second place to

eighth place teams, respectively, were Punahou School with coach Leslee Hosoda, Iolani School with coaches Joe Guillou and Kristi Sakaguchi, Kapolei Middle School and coach Kristine Lindstrom, Highlands Intermediate School with coach Mark Yamashita, Kamehameha Middle School Kapalama and coach Midori Burton and Brad Uy, Waiakea Intermediate School and coach Darwin Mizuba, and Seabury Hall with coach Bryan Molina.

Awards presenters included Debbie Lindsey, Assistant Head of School, Kamehameha Schools Kapalama; Phyllis Unebasami, Deputy Superintendent, Hawaii Department of Education; Robert Isler, Vice President Power Supply, Hawaiian Electric Company, Inc.; and Jennie Thompson, Professor, University of Hawaii Leeward Community College and MATHCOUNTS Steering Committee member. The organizations they represent have a major role in perpetuating MATHCOUNTS in Hawaii.

Hawaii MATHCOUNTS is organized by HSPE with competition assistance from Hawaii educators and engineers. Hawaiian Electric is sponsoring the 2018 MATHCOUNTS Oahu Chapter and State Competition with a \$10,000 grant to the HSPE Educational Foundation.

You will again be able to attend the Competition in your home or office. MATHCOUNTS will present the 2018 Raytheon MATHCOUNTS National Competition live via webcast on www.mathcounts.org, starting Monday, May 14th at 10:00 AM EDT.



HAWAII CHAPTER OFFICERS

President: Robert Bigtas
 Coffman Engineers
bigtas@coffman.com
 Vice President: Derick Kam
 NAVFAC Hawaii
 Secretary: Ferdi Guinto
 NAVFAC Hawaii
 Treasurer: Sam Dannaway
 Coffman Engineers
 Director: Mel Harano
 Thermal Engineering Corporation
 Director: Bob Lohaus



Award Presenters, L-R: Debbie Lindsey, Phyllis Unebasami, Robert Isler, and Jennie Thompson.

Professional Directory

<p>SHIMABUKURO, ENDO & YOSHIZAKI, INC. Civil, Environmental & Structural Engineers 1126 12th Avenue, #309 Honolulu, Hawaii 96816-3715 Phone: (808) 737-1875 Fax: (808) 734-5516 Email: seyeng@seyeng.com</p>	<p>Tim Waite, P.E. Sales, Engineer Mobile: 808-479-1216 Email: twaite@strongtie.com Simpson Strong-Tie Co., Inc. </p>	<p>SSFM INTERNATIONAL www.ssfm.com</p>	<p>WPT WALTER P. THOMPSON, INC. SURVEYING & MAPPING 720 IWILEI ROAD SUITE 425 P.O. Box 3351 HONOLULU, HI 96801 PHONE: (808) 536-2705 FAX: (808) 599-4032</p>
<p>R. M. TOWILL CORPORATION SINCE 1930 Civil Engineering Wastewater Engineering Surveying & Mapping Planning Construction Management Project Management Contact: 808.842.1133 rmtowill@rmtowill.com www.rmtowill.com</p>	<p>KAI HAWAII STRUCTURAL & FORENSIC ENGINEERS 50 S. Beretania Street, #C-119C • Honolulu, HI 96813</p>	<p>JUNO & ASSOCIATES CONSTRUCTION COST CONSULTANTS 1210 Ward Avenue, Suite 204 Honolulu, Hawaii 96814 Phone: (808) 947-6855 info@juno-associates.com</p>	<p>WALKER INDUSTRIES, LTD. Precast Concrete Products Frederick K. Wong, PE P.O. Box 1568 Kahului, Maui, Hawaii 96732 Maui (808) 877-3430 Fax (808) 871-7282</p>
<p>WILSON OKAMOTO CORPORATION INNOVATORS • PLANNERS • ENGINEERS www.wilsonokamoto.com</p>	<p>WJE 808.591.2728 www.wje.com Engineers Architects Materials Scientists Serving Hawaii and the Pacific Since 1979</p>	<p>WSP Question the ordinary Imagine the extraordinary Create the enduring honolulu@wsp.com www.wsp.com/usa 808-536-1757</p>	<p>YKE YOGI KWONG ENGINEERS, LLC 677 Ah Moana Blvd., Suite 710 Honolulu, HI 96813 Tel: (808) 942-0001 www.yogikwong.com Geotechnical Engineering Trenchless Engineering Construction Management</p>

HAWAII COUNCIL OF
ENGINEERING SOCIETIES
P.O. Box 2873
Honolulu, Hawaii 96802

RETURN SERVICE REQUESTED

Professional Directory

 <p>AECOM 1001 Bishop Street, Suite 1600 Honolulu, HI 96813 tel: 808.521.3051 www.aecom.com</p>	<p>ALLANA BUICK & BERS Building solutions. Engineering for life. Waterproofing & Roofing Building Envelope & Solar Solutions 808.538.0115 www.abbae.com</p>	<p>Austin Tsutsumi & Associates, Inc. Civil Traffic Environmental Surveying Branch Offices in Wailuku, Maui and Hilo, Hawaii www.atahawaii.com</p>	 <p>WWW.BELT COLLINS.COM</p>
 <p>BILLS ENGINEERING INC. Civil/Environmental Engineering Tel: 808.792.2022 Fax: 808.792.2033 1124 Fort Street Mall Suite 200 Honolulu, HI 96813 info@BillsEngineering.com</p>	 <p>BOWERS + KUBOTA CONSULTING • Project Management • Planning • • Architectural/Engineering Design • Construction Management • 94-408 Akoki Street, Suite 201-A • Waipahu, Hawaii 96797 Phone: 808.836.7787 • Telefax: 808.834.4833</p>	 <p>Brown AND Caldwell Environmental Engineers & Consultants Maui - Honolulu brownandcaldwell.com</p>	 <p>COFFMAN ENGINEERS LASTING creativity results relationships Multidiscipline Engineers www.coffman.com 851 Fort Street Suite 300 Honolulu, HI 96813 808.687.8884</p>
 <p>ControlPoint Surveying, Inc. Oahu: 615 Piikoi Street, Suite 700 Honolulu, Hawaii 96814 Ph: (808) 591-2022, Fax: (808) 591-8333 Email: surveying@cpshawaii.net Maui: 1129 Lower Main Street, Suite 102 Wailuku, Hawaii 96793 Ph: (808) 242-9641 Email: cpsmaui@cpshawaii.net</p>	<p>When it's RUST Call us (808) 676-1963 www.corrosioncops.com</p>	<p>Y. Ebisu & Associates Acoustical and Electronic Engineers 1126 12th Avenue, Room 305 Honolulu, Hawaii 96816 (808) 735-1634</p>	 <p>CUMMING Building Value Through Expertise Cost + Project Management 808-947-4525 ccorpusa.com</p>
 <p>Engineering Concepts, Inc. Civil/Environmental/Sanitary Engineers 1150 South King Street, Suite 700 • Honolulu, Hawaii 96814 Phone: (808) 591-8820 • Fax (808) 591-9010 Email: eci@ceihawaii.com</p>	 <p>ESH 1320 N SCHOOL ST., STE 1 HONOLULU, HAWAII 96817 Phone: 591-8116 ENGINEERS-SURVEYORS HAWAII, INC. (FORMERLY WILLIAM HEE & ASSOCIATES, INC.)</p>	<p>MASA FUJIOKA & ASSOC. A PROFESSIONAL PARTNERSHIP ENVIRONMENTAL • GEOTECHNICAL • HYDROGEOLOGICAL CONSULTANTS MFA 98-021 Kamehameha Highway, Suite 337 Aiea, Hawaii 96701-4914 Phone: 808 484-5366 • Fax: 808 484-0007 masa-fujioka-associates.com • mfujioka@masafujioka.com</p>	<p>FUKUNAGA & ASSOCIATES, INC. 1357 Kapiolani Blvd., Suite 1530 Honolulu, HI 96814 Ph: 944-1821 • Fax: 946-9339 office@fukunagaengineers.com www.fukunagaengineers.com</p>
 <p>GEOLABS, INC. Geotechnical Engineering and Drilling Services 2006 Kalihii Street Honolulu, Hawaii 96819 Phone: 841-5064 Fax: 847-1749</p>	<p>Gray-Hong-Nojima & Associates, Inc. CONSULTING ENGINEERS 201 Merchant Street, Suite 1900 Honolulu, Hawaii 96813 Telephone: (808) 521-0306 Fax: (808) 531-8018 email@grayhongnojima.com www.grayhongnojima.com</p>	 <p>HARTCROWSER Geotechnical, Environmental, and Natural Resources Consulting janice.marsters@hartcrowser.com www.hartcrowser.com</p>	 <p>total POWER SOLUTION HAWTHORNE POWER SYSTEMS CAT 94-025 Farrington Hwy, Waipahu, Hawaii 96797 808/676-0205</p>
 <p>HCD ROCK SOLID SINCE 1908 www.hcdhawaii.com • sales@hcdhawaii.com</p>	 <p>HDR Honolulu 808.697.6200 Maui 808.359.2518 hdrinc.com</p>	<p>HIDA, OKAMOTO & ASSOCIATES, INC. CONSULTING CIVIL ENGINEERS PACIFIC GUARDIAN TOWER 1440 Kapiolani Boulevard, Suite 1120 Honolulu, Hawaii 96814 Phone: (808) 942-0066 Fax: (808) 947-7546</p>	<p>Hirata & Associates, Inc. Geotechnical Engineering 808.486.0787 www.hirata-hawaii.com</p>
 <p>SAM O. HIROTA, INC. Engineers & Surveyors 864 S. Beretania Street Honolulu, Hawaii 96813 Telephone: 537-9971</p>	<p>ISLAND GEOTECHNICAL ENGINEERING, INC. Geotechnical Consultants 330 Ohukai Road, Suite 119 Kihai, Hawaii 96753 Phone: (808) 875-7355 Fax: (808) 875-7122 Email: ige@igehawaii.com</p>	<p>Kennedy/Jenks Consultants Engineers & Scientists The BLOCK Honolulu 707 Richards Street Suite 528 Honolulu Hawaii 96813 P: 808.218.6030 F: 808.488.3776 Direct: 808.218.6042</p>	 <p>THE LIMTIACO CONSULTING GROUP CIVIL ENGINEERING AND ENVIRONMENTAL CONSULTANTS 1622 Kananani Street • Honolulu, Hawaii 96817 (808) 596-7790 • tighawaii.com</p>
<p>MCE INTERNATIONAL, INC. MECHANICAL AND FIRE PROTECTION ENGINEERS 1360 S. Beretania St., Ste. 400 Honolulu, Hawaii 96814 Ph: (808) 941-0955 Fax: (808) 550-8167 Email: mcehl@mceinternational.com</p>	<p>Creative People. Practical Solutions.® moffatt & nichol Marine & Transportation Planners and Engineers 808.533.7000 www.moffatfnichol.com</p>	<p>NAGAMINE OKAWA ENGINEERS INC. CONSULTING STRUCTURAL ENGINEERS 1003 Bishop Street • Suite 2025 Honolulu, Hawaii 96813 Phone: (808) 536-2626 • FAX: (808) 536-3926</p>	 <p>Okahara and Associates, Inc. ENGINEERING CONSULTANTS Civil - Mechanical Engineers Hilo: (808) 961-5527 • hilo@okahara.com Oahu: (808) 524-1224 • oahu@okahara.com www.okahara.com Small Business and Certified HUBZone</p>
 <p>oceanit www.oceanit.com</p>	 <p>Pacific Geotechnical Engineers, Inc. Soils & Foundation Engineering Consultants 94-417 Akoki Street Waipahu, Hawaii 96797 (808) 678-8024 FAX (808) 678-8722 E-mail: pge@pacificgeotechnical.com</p>	 <p>ParEn, Inc. SUIE 1500, PACIFIC PARK PLAZA 711 KAPOLANI BOULEVARD HONOLULU, HAWAII 96813 TELEPHONE: (808) 593-1676 FAX: (808) 593-1607 EMAIL: paren@pareninc.com dba park engineering Engineers, Surveyors, Planners</p>	 <p>Sato & Associates, Inc. Consulting Engineers Honolulu • Maui www.satoandassociates.com</p>