

wiki o hawaii



ENGINEER
OF HAWAII

VOL. 52 NO. 12

SERVING 2000 ENGINEERS & LAND SURVEYORS

FEBRUARY, 2017

2017 HCES Lifetime Achievement Award

Mae Nishioka

Mae Nishioka has been a remarkable engineer in Hawaii, beginning her career in 1950. She is a graduate of Roosevelt High School. When she enrolled in college in 1946, Mae had no idea that she would be the very first female to graduate from the University of Hawaii, College of Engineering. This graduating class in June 1950 was the largest engineering class of its time, producing approximately 50 engineering graduates. The two previous classes had only 10 and two students, because all of the men had been drafted into the army during the war years. They were coming back so the job market was very competitive. Yet Mae managed to secure a highly prized engineering job in Hawaii.



Mae was so eager to work, she even accepted the job before graduation. She recalls getting a message through her professor that she had a phone interview that she could take time out of class to take the call. She was offered and accepted a job for the Territory of Hawaii in the Highway Planning Office. There she worked on the beginnings of the H-1 freeway.

Besides being the first female engineer out of the University of Hawaii, Mae is also the first female to become a licensed Professional Engineer in Hawaii. She obtained her PE in 1954.

Mae was also a dedicated parent and she took three years off from her career to stay at home to raise her children. Her son and two daughters still all live and work in Hawaii, one daughter teaching math at Roosevelt High School.

Mae was asked to return to work in 1956 because engineers were in such short supply. She went to work for the Hawaii Irrigation Authority travelling to Waimea on the island of Hawaii from her home on Oahu.

With Hawaii's statehood and reorganizations of State government

continued on page 7

2017 Young Engineer of the Year

Puna Kaneakua

The Hawaii Council of Engineering Societies (HCES) is proud to announce Mr. Keane "Puna" Kaneakua as the recipient of the 2016 Young Engineer of the Year Award. Mr. Kaneakua was nominated by the American Society of Civil Engineers (ASCE) Hawaii Section for his exceptional contributions to the profession and the community.



Mr. Kaneakua grew up on Oahu and attended Harvey Mudd College in California where he received his Bachelor of Science Degree in General Engineering in 2006. He returned to Hawaii after graduation and currently works as a Senior Civil Engineer at AECOM. As a senior engineer, Puna oversees between 25-30 projects of varying sizes where he plays a key role in project management and client services. He is the civil Engineer of Record (EOR) responsible for oversight of the design for six transit stations for the Honolulu Rail Transit (HART) project including stations at East Kapolei, UH West Oahu, Ho'opili, West Loch, Waipahu Transit Center, and Leeward Community College stations. He coordinated agency reviews for the rails transit stations in the Farrington Highway Station Group and West Oahu Station group. Puna has played a critical role in design coordination efforts between various design offices around the country. AECOM awarded Mr. Kaneakua the Outstanding Newcomer Award in 2014 for his exceptional contributions. Puna is also responsible for oversight and coordination of condition assessments of 25 wastewater pump stations around the island of Oahu. Other major projects he was involved in include Coconut Island Improvements, Waiahole Water System Improvements, Kuhio Park Terrace Tower A and B Renovations, con-

continued on page 2

HSPE 2017 Engineer of the Year

Tony C.G. Lau, P.E., F.ASCE

The Hawaii Council of Engineering Societies is proud to announce that Tony C.G. Lau, P.E., F.ASCE, has been awarded the 2017 Hawaii Society of Professional Engineers (HSPE) Engineer of the Year.

Mr. Lau is currently the Naval Facilities Engineering Command (NAVFAC) Hawaii, Capital Improvements (CI) Civil Engineering Design Branch Manager. He also serves as the Civil Technical Design Coordinator and Civil Community of Practice Chair for NAVFAC Hawaii CI. He was previously an Associate Vice President and Federal Business Group Manager at HDR's Honolulu Office and a Project Manager Engineer at Hawaii Pacific Engineers.

Mr. Lau is a proud alumnus of Kalani High School. He received a Bachelor of Science degree in Civil Engineering from the University of Hawaii at Manoa in 1992. He was the recipient of the 2002 HSPE Young Engineer of the Year Award.

During his 24-year career, Mr. Lau has completed civil designs on a diverse range of project types including site development, utilities infrastructure, waterfronts, airfields and environmental compliance studies. He has provided design services for the Federal Department of Defense, State of Hawaii, City and County of Honolulu, and private entities. In addition to his work within Hawaii, he has practiced civil engineering in unique locations including Johnston Island, Guam, Kwajalein Island, Japan, Singapore and Diego Garcia.

Mr. Lau's technical contributions to the profession are highlighted through nine noteworthy projects for NAVFAC Pacific. The nine projects received client evaluation ratings of Exceptional and the teams were recognized with NAVFAC Pacific Certificates of Appreciation between 1993 and 2010. His roles on the project teams ranged from project manager



continued on page 7

2017 HCES Student Engineer of the Year

George Zhang

The 2017 HCES Student Engineer of the Year award goes to Mr. George B. Zhang of the Electrical Engineering Department, College of Engineering (CoE), University of Hawaii at Manoa (UHM). He is expecting to graduate with a BSEE in the Spring semester of 2017 with an overall GPA of 3.95/4.00.

George is a proud 2013 Punahou School (PS) graduate who ventured to the engineering school at Johns Hopkins University (JHU) but decided to return to Hawaii and enroll at the CoE, UHM. He has accomplished some incredible things on his journey...

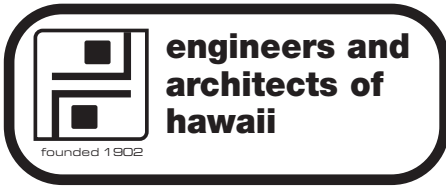
Before venturing on his collegiate adventure, George was the 1st Violinist for the Hawaii Youth Symphony. While at JHU, he mentored the Barclay Middle School in STEM education for their Science Olympiad as part of the Charm City Science League. He worked as a Software and Hardware Developer for the Electrical and Computer Engineering Department and a Software Development Intern for the Applied Physics Laboratory, one of the five Department of Defense research laboratories that resides at a university – the University of Hawaii equivalent of the Applied Research Laboratory. He also worked as a Research Assistant at the Biomechanical and Image Guided Surgical Systems Laboratory in the Baltimore area.

These experiences in Baltimore had a lasting influence on George as he returned home and enrolled at the CoE, UHM, where he has made several incredible accomplishments as a Research Assistant for the Millimeter/Microwave Research Lab.

According to Dr. Aaron Ohta, his current advisor, "I first met George in



continued on page 7



PO box 4353, Honolulu, Hawaii 96813
An association for Hawaii's Engineers and Architects
WEB address: www.eahawaii.org

EAH 2015- 2016 Officers

President Michael Albright, PE
 1st VP Sam Gillie
 2nd VP George Coates
 Treasurer Aaron Erickson, PE 591-2728
 Secretary Gary Yamamoto, PE 485-2777

February 2017 Speakers

February 3. Speaker: Kiersten Faulkner, - Executive Director, Historic Hawaii Foundation.
 Title: People Saving Places: Historic Preservation In Hawaii.

As engineers and architects we are in the forefront in helping to make preservation of our historical treasures possible. Kiersten will share stories, images and other information about community efforts and activities to identify, preserve, protect and celebrate places that are significant to Hawaii's history. Come learn about places that matter to our community and how you can get even more involved.

February 10. Speaker: Mike Young, PE, CCM, - Project Director, Bowers+Kubota KK Tunnel CM Team.

Title: Kaneohe - Kailua Waste Water Conveyance & Treatment Facilities Project.

In April 2015 boring began on the 13 foot wide 3 mile long tunnel from Aikahi WWTP to the Kaneohe WWTPF. Mike will bring us up to date with the tunnel and some of the challenging construction issues presented by the projects supplemental features. Drilling of the midpoint vertical vent shaft as well as the new pump station now under construction will be discussed with lessons learned reviewed. Come join us and learn about this, which is for we Hawaii engineers, truly a once in a life time engineering project.

February 24. Speaker: Bryan Law, - Regional Energy Program Manager - Navy Region Hawaii

Title: Navy Energy Initiatives in Hawaii.

The US Navy is being referred to more and more as "The Great Green Fleet". From waste beef fat for ship's fuel, hybrid engines for surface ships, biofuels for aircraft, solar and wind farms, a trash to energy incinerator and capturing waste methane from landfills the Navy is in the van for developing alternative/renewable energy to and in support of the Fleet. Bryan will discuss the extraordinary ways the Navy in Hawaii is taking on these energy initiatives.

MEETING DETAILS

DATE: Meetings are held every Friday

TIME: 12:00 -1:00 pm

PLACE: Topa Tower (Ewa tower on Fort Street; Old AMFAC Building), Room 301)

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

Program schedule may be adjusted. Call Sam Gillie to confirm speaker 543-4739; Fax 203-1335.



2017 Engineers Week Banquet

Saturday, February 25, 2017

Glass Ballroom at the Koolau Ballrooms & Conference Center

5:30 p.m. Cocktails
 6:30 p.m. Dinner
 7:15 p.m. Program:

- Presentation of Engineer of the Year, Young Engineer/Early Career, HCES Lifetime Achievement, and Student Engineer of the Year Awards.
- Guest Speaker – Henk Rogers, Tetris
- Installation of 2017 HCES officers.

Contact Person and Organization _____

Address _____

Telephone _____ E-mail _____

Rates are \$60.00 per person for registration(s) postmarked on or before February 10, 2017, \$70.00 per person for registration(s) postmarked after February 10, 2017, and \$40.00 for students. Tables will seat 10 people. **Registration deadline is February 17, 2017.**

HCES has invited special guests to attend the banquet. These guests may include the Governor, Mayors, State Legislators, Governmental Department Directors, and/or their representatives.

If you would like to sponsor an invited special guest and their spouse/companion to sit at your table, please fill in "HCES Special Guest" for two seats in the list below and HCES will assign a special guest and their spouse/companion to your table. Alternatively, if you would like to arrange for your own special guest(s), please include their name(s) in the list below.

Please type or print the name and company/organization affiliation for each attendee, as they would like it to appear on their name tag.

	Name	Company or Organization
1.	_____	_____
2.	_____	_____
3.	_____	_____
4.	_____	_____
5.	_____	_____
6.	_____	_____
7.	_____	_____
8.	_____	_____
9.	_____	_____
10.	_____	_____

Number of people attending: _____ x \$60.00 (registration on or before Feb 10) = _____

Number of people attending: _____ x \$70.00 (registration after Feb 10) = _____

Number of students attending: _____ x \$40.00 = _____

Sponsored Guests (2 x \$60.00 = \$120.00) = _____

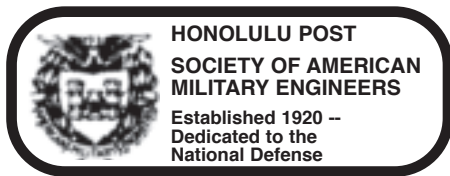
TOTAL AMOUNT REMITTED _____

To pay by credit card, please visit the HCES' new website address at www.hceshawaii.org. Please note that an additional fee will be applied to process the credit card transaction.

To pay by check, Please make checks payable to "HCES" and mail with completed registration form to:

2017 Engineers Week Banquet
 c/o Kristen Yoshida
 2153 North King Street
 Suite 200
 Honolulu, HI 96819-4554

Banquet attire will be aloha wear. There is no charge for parking. For further information or inquiries regarding the Banquet, please contact 2017 Registration Coordinator Benjamin Rasa at benjaminrasa@kennedyjenks.com or Jason Kage at jason.kage@ch2m.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)
VP/Membership	Wesley Ishizu, PE
Secretary	Capt Jonathan Polston, USAF
Treasurer	David Brochie, PE
Regional VP, Pacific Region	Richard Stump, AIA, F.SAME

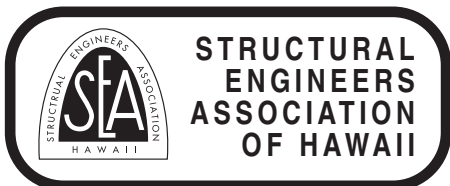
SAME Honolulu January 11, 2017

Lunch Meeting Presentation

Topic: Regional Sediment Management – Why Sediment is a Valuable Resource: A case Study on the North Shore of Oahu’s Sunset Beach Region

Presenter: Jessica Podoski, PE, Coastal Engineer, U.S. Army Corps of Engineers, Honolulu District

Jessica Podoski is a Coastal Engineer that has worked for the Corps of Engineers for 15 years and has been at Honolulu District for the past 13 years. She graduated with bachelor’s and master’s degrees from the University of Florida and grew up along the beaches of south Florida. Her position at the Honolulu District includes coastal structure and harbor design, navigation and dredging, as well as management of sediment from various USACE



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

2017 BOD OFFICERS AND DIRECTORS

President	Jonathan Murai	791-3952
	jmurai@kaihawaii.com	
Vice President	Jeffrey Cudiamat	488-5000
	jcudiamat@structuralhawaii.com	
Secretary	Andrew Pang	535-3008
	andrewp@nagamineokawa.com	
Treasurer	Reid Nishimura	521-6958
	reid.nishimura@englekirk.com	

PREVIOUS BOD MEETING AND TRANSITION DINNER

January 4, 2017

General Membership Meetings/Technical Seminars/Events

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

- SEAOH Installation Banquet – January 21st, 2017 6pm, Honolulu Country Club.
- ASCE 7 Tsunami Design Provisions and Application to the State of Hawaii – Training, February 24, 2017, details to be announced.
- SEAOH Annual Convention – August 25 and 26, Aulani Resort & Spa, details to be announced.

Next Meeting on February 1, 2016. For information, contact SEAOH President; Jonathan Murai, jmurai@kaihawaii.com.

projects in Hawaii and the U.S. Pacific Territories.

Synopsis: Regional Sediment Management (RSM) is a way of doing business that has been in practice within the U.S. Army Corps of Engineers since 2000. It is the systematic approach to managing navigation and coastal storm damage reduction projects that is

intended to save money, maximize beneficial use of dredged material, and view sediment as a resource used to contribute to sustainable and environmentally healthy water resources projects. These concepts and the innovative application of RSM along one of Hawaii’s most high-profile and dynamic shorelines at Sunset Beach will be presented.



The Society of American Military Engineers, Honolulu Post and

The Hawaii Council of Engineering Societies

cordially invite you to join us for the

**2017 ENGINEERS WEEK
 “KICK-OFF” LUNCHEON**

Guest Speaker:

**Robert J. Kroning, P.E., Director
 Department of Design and Construction (DDC)
 City and County of Honolulu**

Presentation:

DDC Top Projects and Smarter Cities Initiative

**Hale Koa Hotel, Banyan Tree Showroom
 11:30 AM, Tuesday, February 21, 2017**

Warrior Buffet Luncheon Cost: \$45.00

PLEASE RSVP NLT: Wednesday, February 15, 2017

Payment Method:

Please visit the SAME Honolulu website to register with a credit card or PayPal. www.samehonolulu.org

Questions:

Please contact Kendra McDonough with any questions or concern.

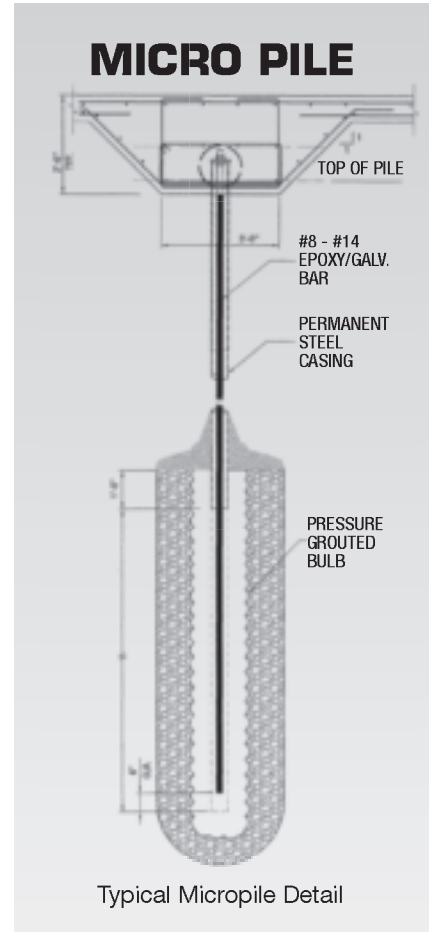
kendra.mcdonough@navy.mil,
 808.474.5426 (o), 808.265.0672 (m)



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
- Uretek, 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



2016-2017 YMF Officers

Norman Leong, President
nleong@ascehawaiiymf.org
Jordan Urabe, Vice President
jurabe@ascehawaiiymf.org
Nicole Nakaoka, Secretary
nnakaoka@ascehawaiiymf.org
Austin Wong, Treasurer
awong@ascehawaiiymf.org

YMF General Meeting

The next YMF general meeting is scheduled for Thursday, February 2, 2017 at 6:00 pm at the Fort Shafter Bowling Alley (Joint Social). If you are interested in attending and learning more about the various professional, social and service opportunities available through YMF, please contact YMF at yfm.hawaii@gmail.com.



2016-2017 ASCE Hawaii Section Officers

President: Tim Goshi, P.E.
[email: tgoshi@kaihawaii.com](mailto:tgoshi@kaihawaii.com)
Lara Karamatsu, P.E.
[email: lkaramatsu@ascehawaii.org](mailto:lkaramatsu@ascehawaii.org)
Vice Pres.: Eric Arakawa, P.E.
[email: earakawa@ascehawaii.org](mailto:earakawa@ascehawaii.org)
Treasurer: Jason Kage, P.E.
[email: jkage@ascehawaii.org](mailto:jkage@ascehawaii.org)
Secretary: Dayna Nemoto, P.E.
[email: dnemoto@ascehawaii.org](mailto:dnemoto@ascehawaii.org)

FEBRUARY DINNER MEETING

The February Dinner Meeting will be a joint meeting with SEA/OH and is scheduled to be held on Friday Feb 24th. More information will be available shortly.

DREAM BIG Engineering Our World

ASCE Hawaii Presents DREAM BIG: Engineering Our World. All around the world, engineers are pushing the limits of ingenuity and innovation in unexpected, imaginative, and amazing ways. This giant-screen film about engineering, will take viewers on a journey of discovery from the world's tallest building to a bridge higher than the clouds. Along the way, the audience will witness how today's engineers are shaping the world of tomorrow.

Date: Thursday, February 23, 2017
Location: Consolidated Theaters Ward 16

5pm Doors Open
6pm Opening Program
7pm Feature Film (Approximately 45 minutes)

Go to www.ascehawaii.org for more information and to purchase your tickets!

ASCE JOB LISTINGS

The following job listings are currently posted on the ASCE Hawaii Section website:

- Civil Engineer – AECOM
- Assistant Program Administrator – City and County of Honolulu
- Civil Engineer V (Geotechnical) – City and County of Honolulu
- Civil Engineer V – City and County of Honolulu
- Mechanical Engineer V – City and County of Honolulu
- Design and Construction Branch Chief - City and County of Honolulu
- Junior Engineer – GPRM Prestress
- Civil Engineer – Group 70
- Project Manager – Group 70
- Senior Geotechnical/Geological Engineer – Hart Crowser
- Project Geotechnical/Geological Engineer – Hart Crowser
- Construction Project Engineer – Jas. W. Glover, Ltd.
- Project Manager – Kennedy/Jenks Consultants
- Staff Engineer (Honolulu Office) – Kennedy/Jenks Consultants
- Staff Engineer (Hawaii Offices) – Kennedy/Jenks Consultants
- Principal Project Control Engineer/Specialist, AIRPORT - Parsons
- Civil Engineer V – SSFM International
- Structural Engineer IV – SSFM International

For further information on these job listings or to find out how you can post job openings in your company on this website, please visit <http://www.ascehawaii.org/job-listings.html>.

CIVIL ENGINEER

Minimum Requirements

- B.S. in Civil Engineering (ABET accredited)
- 3 years consulting civil engineering experience or equivalent
- Excellent verbal & written communication skills
- Hawaii driver license

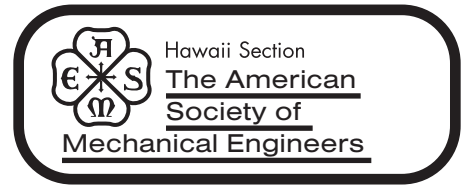
Additional Desirable Qualifications

- Hawaii Professional Engineer (PE) license
- Proficient in CAD
- Civil site development experience
- NASSCO PACP/MACP certification
- Comfortable working in fast-paced environment
- Self-starter with passion to learn
- Team player

Email resume and cover letter to:
email@grayhongnojima.com



Phone: (808) 521-0306
www.grayhongnojima.com



www.asme-hi.com

ASME-HI 2015-2016 Officers

Chairperson	Derek Sato	543-4108
	Derek.sato@hawaiianelectric.com	
Vice-Chair	Derick Kam	
	derickFPE@gmail.com	
Secretary	Victor Russell	
	dsaengr@aol.com	
Treasurer	Kevin Dang	737-1708
	dangk001@hawaii.rr.com	

NEXT ASME-HAWAII SECTION GENERAL MEMBERSHIP MEETING

Date: February 1, 2017
Time: 5:30 pm to 7:00 pm
Place: HECO Ward Ave Cafeteria Conference Room
Agenda: Planning for Engineers Week and guest speaker to be announced.

As usual, all members are invited and encouraged to attend our meetings. There are always lots of complimentary pizza and soft drinks. Please contact Chairman Derek Sato for directions and for more information, such as parking within Hawaiian Electric's Ward Avenue facilities.

ASME-HAWAII P.E. REFRESHER COURSE

Raymond Liu announced the 2017 P.E. Refresher Course sponsored by ASME-Hawaii, Charles M. Kinoshita, Ph.D., P.E., and Ryan Kurasaki of the UHM College of Tropical Agriculture & Human Resources, and Stephen M. Masutani, Ph.D., P.E., Professor at the Hawaii Natural Energy Institute, School of Ocean and Earth Science and Technology, University of Hawaii. Liu the course facilitator has 17 candidates/students interested in participating probably for the April exam.

A kickoff meeting was planned for January 17, 2017 for candidates to meet the instructors and ask questions, and also to see if the selected room at UHM is satisfactory for the number of candidates attending. Ryan Kurasaki arranges for the class room in the College of Tropical Agriculture and Human Resources.

Dr. Masutani will be the instructor for Fluids and Heat Transfer, and Dr. Kinoshita will be the instructor for Power and Combustion sessions. Raymond Liu will be the instructor for HVAC. An updated course syllabus will be posted on the ASME-Hawaii website.

By sponsoring and providing volunteer engineering professionals to conduct the P.E. Refresher Course, ASME-Hawaii is fulfilling its mission in accordance with ASME bylaws to "promote the Arts & Science of mechanical engineering and allied arts and sciences; to encourage research; to foster engineering education; to advance the standards of engineering; to promote the networking of engineers among themselves and with allied technologists; and to severally and in cooperation with other engineering and technical societies to broaden the usefulness of the engineering profession."

2017 ASME-HI BALLOT AND SURVEY

By the time you read this, our 2017 ASME-HI Ballot & Survey will be at SurveyMonkey.com. Please take the little time needed to support the officers of the Hawaii Section by completing the very brief ballot & survey. Your help is needed to keep the Hawaii Section going. The SurveyMonkey.com link is emailed to the ASME Hawaii Section members.



HSPE 2017 Engineer of the Year, from page 1

to civil engineer.

Mr. Lau made significant contributions to the profession through his activities for the American Society of Civil Engineers (ASCE) and the Hawaii Council of Engineering Societies (HCES). He has demonstrated leadership at the Section, Region and National levels through his 24 years of involvement with ASCE. He served HCES from 1999 to 2003 as an ASCE Representative, Treasurer and Chairperson.

As ASCE Hawaii Section Younger Member Forum (YMF) President and Hawaii Section President, Mr. Lau initiated an increased value of Hawaii Section membership by enhancing existing programs and developing new ones. Under his presidential leadership, the Hawaii Section YMF was awarded the Society Younger Member Group Award for Small Groups in 1998 and the Hawaii Section was recognized as the Outstanding Large Section in Zone IV in 2002.

Mr. Lau has diverse experience at the ASCE Region and National level. He completed three years of service as a Region 8 Governor in 2016. Since 2002, he has served national committees including the Committee on Younger Members, Committee on Geographic Units, the Membership Committee, the Leadership Training Committee, the Committee on Scholarships and the Student Transition Subcommittee. During his service, he mentored Section, Branch, YMF and Student Chapter officers to have a vision of what they would like their local groups to be beyond their time on their boards and inspired the leaders to make a difference. He was awarded the 2002 Edmund Friedman Young Engineer Award for Professional Achievement. He was elected as an ASCE Fellow in 2007 - the youngest to receive this honor in the history of ASCE.

In addition, Mr. Lau continuously takes on leadership roles in many community organizations and events. The list includes the Kalani Falcons Athletic Boosters (KFAB) and the American Cancer Society Relay for Life (RFL) annual Magic Island event.

lab working on NSF-funded research on liquid metals for reconfigurable radio-frequency (RF) circuits. George immediately proved to be motivated and valuable to our research group. Over the summer of 2015, he assisted one of my Ph.D. students with fabricating and testing fluidic devices used to characterize a new type of electrical actuation for gallium-based liquid metals."

George's contributions increased the pace of liquid metals research work and culminated in a journal article that George co-authored. And, this was just the beginning...

As a 3rd year student, George was given the leadership and ownership of his own project, which was to create a liquid-metal RF switch using the electrical actuation methods that he had learned over the summer. In addition, he was selected to be a recipient of NSF REU support (supplement to an NSF grant funding our liquid-metal research). As his initial research work showed promise, Drs. Ohta and Wayne Shiroma decided to have George design, fabricate, and test a prototype, and submit these results to the 2016 IEEE International Microwave Symposium (IMS), the premier conference in this field. Although he had to overcome several technical challenges to realize a working liquid-metal RF switch, his hard work and dedication paid off with a paper presented at IMS 2016, where he is the youngest student that Drs. Ohta and Shiroma have advised to be the first author of a paper at such a prestigious conference.

Thus far, George has also helped to develop a rapid-prototyping method for RF circuit prototypes; worked and helped with other research in the physics of liquid-metal actuation; has assisted and co-authored a conference paper summarizing his assistance in smaller projects; and finally, he is still working as part of the liquid-metal VIP (Vertically Integrated Project) team, and plans to submit a paper to IMS 2017. If all of George's papers are published, he will have first authored 2 conference papers, and co-authored 3 journal papers and a conference paper. These are virtual requirements for a doctoral and good for master's student, but **extremely unusual** and **exceptional** for an undergraduate student.

George is a member of the IEEE and HKN, the Electrical Engineering Honor Society. He has received multiple awards, honors, and scholarship. He currently is part of a team organizing Project Connect, an event associated with IMS 2017 (which will be held in Honolulu) that enables approximately 25 underrepresented students to attend this conference.

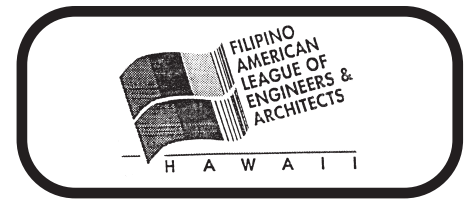
All in all, a pretty impressive 'career' for a young man who is graduating this spring.

2017 HCES Lifetime Achievement Award, from page 1

offices, Mae went to work in the Public Works Department and then the Transportation Department. She was involved with projects for a ferry system for the state and for the Honolulu International Airport.

When a position opened in the budget office at UH, she was asked to apply. Her assignment was to put together a construction program for the development of the UH Manoa, UH Hilo, West Oahu and the community college campuses. She was then asked to become the Director of the Facilities Planning Office at the University of Hawaii, where she stayed until retirement in 1983.

Mae has been an active member of the Society of Women Engineers (SWE) for 54 years. She joined SWE in 1958 as a Member-At-Large because Hawaii didn't have its own SWE section. In 1964 they wanted someone from each state to attend the World's Fair in New York, so Mae represented Hawaii. She's always been happy mentoring female engineering students at UH, and in 2011 she signed the new SWE-Hawaii Islands (SWE-HI) Charter document with several local engineers to form the first professional SWE section in Hawaii. She has been helping SWE-HI and continues mentoring young engineers and engineering students.



P.O. Box 4135, Honolulu, Hawaii 96812
Website: <http://www.falea.org>

2017-18 Officers/BoDirectors

President: Gene C. Albano, Jr., PE, LEED AP
VP/Pres-Elect: Ferdinand B. Guinto, PE
Secretary: Majella D. Stevenson, PE
Treasurer: Riza Marie R. Gatdula, EIT

JANUARY/FEBRUARY 2017 HIGHLIGHTS:

SCHOLARSHIP – The deadline is only several days away, and our scholarship committee is getting anxious to make the selection of our recipients this year.

HCES AWARDS BANQUET – It's coming up fast...the culmination of the various activities of the Council year in year out to promote NSPE's Engineers' Week locally! FALEA congratulates all the awardees in the different award categories this year!

HAVE A GREAT AND SAFE MONTH!!

2017 HCES Student Engineer of the Year, from page 1

April 2015; his first semester at University of Hawaii since transferring from Johns Hopkins University. George took the initiative to meet with me about potential research opportunities in my lab. Recognizing George's potential, I introduced him to the graduate students in my

Professional Directory

<p>Tim Waite, P.E. Sales, Engineer Mobile: 808-479-1216 Email: twaiter@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>YOUR AD COULD APPEAR HERE FOR \$235 A YEAR</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 CONSPAN BRIDGE SYSTEMS Frederick K. Wong, PE P.O. Box 1568 Kahului, Maui, Hawaii 96732 Maui (808) 877-3430 Fax (808) 871-7262</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>YOUR AD COULD APPEAR HERE FOR \$235 A YEAR</p>	<p>Aloha 'Aina, 'Ike Honua Local Knowledge, Global Coverage WSP PARSONS BRINCKERHOFF www.wspgroup.com 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>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 Akoko 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>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@ecihawaii.com</p>
 <p>ESH ENGINEERS SURVEYORS HAWAII, INC. (FORMERLY WILLIAM HEE & ASSOCIATES, INC.) 1320 N SCHOOL ST., STE 1 HONOLULU, HAWAII 96817 Phone: 591-8116</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>MASA FUJIOKA & ASSOC. A PROFESSIONAL PARTNERSHIP ENVIRONMENTAL • GEOTECHNICAL • HYDROGEOLOGICAL CONSULTANTS 98-021 Kamehameha Highway, Suite 337 Aiea, Hawaii 96701-4913 Phone 808 484-5366 • Fax 808 484-0007 masa-fujioka-associates.com • mfujioka@masafujioka.com</p>	 <p>GEOLABS, INC. Geotechnical Engineering and Drilling Services 2006 Kalihi 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>HART CROWSER Geotechnical, Environmental, and Natural Resource Consulting jenica.marsters@hartcrowser.com www.hartcrowser.com</p>	<p>total POWER SOLUTION 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>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 Kihei, 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 Kanakanui Street • Honolulu, Hawaii 96817 (808) 596-7790 • tigohawaii.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: mcehnl@mceinternational.com</p>
<p>Creative People, Practical Solutions,® moffatt & nichol Marine & Transportation Planners and Engineers 808.533.7000 www.moffattnichol.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. dba park engineering Engineers, Surveyors, Planners</p>	 <p>Sato & Associates, Inc. Consulting Engineers Honolulu • Maui www.satoandassociates.com</p>	<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>