

THE STATE OF THE UNIVERSITY OF HAWAII COLLEGE OF ENGINEERING

School started on August 21 and the College welcomed over 1,500 undergraduate and graduate students back to school. Over the last few years, enrollment at the undergraduate level has been increasing and the College will continue to work towards providing a strong educational foundation for our students. Support from alumni and friends has been a key component of the success of the College.

Dr. H. Ronald Riggs is serving as interim dean and Dr. David Ma is interim associate dean for the College. The UH Manoa Chancellor's office will begin the search for a permanent dean in the fall of 2018. Both Riggs and Ma are tenured faculty in the Civil and Environmental Engineering Department.

Save these dates

- Holmescoming, on the Holmes Hall front lawn, Friday, October 20, 2017, 5:00 p.m. Visit our website for more details <<http://www.eng.hawaii.edu/news-publications/college-events-calendar/>>
- 18th Annual College of Engineering Banquet, Thursday, April 19, 2108, Hawaii Convention Center

Academics

The Hawaii State Department of Education (HIDOE) and the College of Engineering at the University of Hawaii at Manoa have entered into a formal partnership to create a college-focused pathway for public high school students seeking engineering majors. Under a memorandum of understanding (MOU), both institutions have identified requirements and necessary preparation for high school students to be accepted directly into a designated engineering major in the college's professionally accredited program. "This partnership falls in line with our goals to provide more college-level courses for high school students that will hopefully nurture students' interests in future professions," said Kathryn Matayoshi, (former) HIDOE superintendent. "Working with the College of Engineering will ensure that our high school engineering courses correspond to college level standards, and help to ease the transition for our graduates into higher level courses towards future success." <source: <https://www.hawaii.edu/news/2016/12/30/academic-pathway-to-engineering-in-development-for-high-school-students/>>.

The UH Board of Regents established the Regents Scholarships to support students with a record of outstanding academic achievement. Regents Scholars receive a full tuition waiver for four years of undergraduate study, and Presidential Scholars receive a full tuition waiver for two years of undergraduate study.

All scholars receive \$4,000 a year and a one-time travel grant of \$2,000. Regents Scholarships are awarded to 20 outstanding freshmen who receive an SAT total score of at least 1950 (old SAT) / 1380 (new SAT) or ACT combined score of at least 29, maintain at least a 3.5 GPA in academic subjects in high school, and whose extracurricular achievements are shown to be remarkable. <source: <https://www.hawaii.edu/offices/studentaffairs/scholarships/raps-overview.php?winners=2017>>. The College welcomes seven Regents scholars this fall: Tarah Aniya (ME), Jonah Bobilin (EE), Makenzie Cammack (ME), Will Chang (CENG), Sydney Dempsey (ME), Nathan Mashiyama (CE) and Noah Rodrigues (ME).

SSFM International, Inc. has contributed \$261,263 to support University of Hawaii at Manoa College of Engineering and College of Social Sciences students. This gift will fund four full undergraduate scholarships for civil and environmental engineering for four years; and one fellowship for an urban and regional planning graduate student for four years. "We are honored to support the UH Manoa College of Engineering and the Department of Urban and Regional Planning with these scholarships," said Michael P. Matsumoto, UH Manoa College of Engineering alumnus and president of SSFM International, Inc. "This continues to be one of the ways that SSFM is able to honor our commitment to our profession and our community. SSFM understands that scholarships play a key role in making education accessible for many promising future engineers and planners. By partnering with UH we can participate in the education of the next generation of engineers for our state." <source: <https://www.hawaii.edu/news/2017/01/06/ssfm-international-gives-260k-in-uh-manoa-scholarships-and-fellowships/>>.

Faculty News

Faculty numbers at the College remain in the mid-50s—retirements and resignations have been counterbalanced by new hires. Last year we had seven new faculty join the College and this year five more will join the College. Joseph Brown and Woochul Lee will be new to the ME Department. Brown's area is nanoscale devices and materials engineering and Lee is interested in nanotechnology. Jonghyun (Harry) Lee will have a joint appointment in Civil and Environmental Engineering, and the Water Resources Research Center. His research interests include the optimal management of water resources system integrating modeling, characterization, and optimization with big environmental data. Jeffrey Weldon, with expertise in device science and nanofabrication, will join the Electrical Engineering Department. HCAC (Hawaii Center for Advanced Communications) welcomes Yuanzhang Xiao, an expert in wireless communications and design.

Since the Hawaii Convention Center opened in 1998, the College of Engineering at the University of Hawaii at Manoa has helped secure meetings and conventions business worth more than \$170 million in visitor spending. In March, in recognition of these accomplishments, the Hawaii Tourism Authority and Meet Hawaii (a collaboration of the Hawaii Visitors and Convention Bureau and the Hawaii Convention Center) named the college the Elele Organization of the Year <source: <http://www.eng.hawaii.edu/elele17/>>. One convention that contributed to this award was the IEEE MTT-S International Microwave Symposium (IMS2017). It was the state's largest conference in 2017, generating an estimated \$38 million in visitor spending with over

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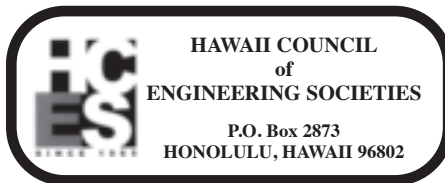
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WILIKI MAILING LIST

Additions and/or corrections to the Wiliki mailing list should indicate the proper society, institution or association. Corrections to email addresses should be submitted to your society coordinator.



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

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<http://hawchapter.cmaa.org>

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DIRECTOR: Jeff Clark (Flour)

CMAA Hawaii Chapter News:

Aloha CMAA Hawaii! September is here- the busiest month on the CMAA Hawaii Calendar. We will start with a **great new community service event**. Our chapter has agreed to assist Child and Family Services with renovations on two condo units, that once completed will immediately house families dealing with Domestic violence issues. This is an opportunity for us to do some real good for our community, we hope that you will join us!

Last month, we held the 2017 Professional Construction Management (PCM) class; which was a great success- thanks to our instructors Norman Takeya (Also the CM professor at HCC) and Richard Panos- who visited from the mainland to instruct- once again we had a great turnout and are now expecting to see our Hawaii CCM numbers jump as these graduates take their CCM exams. We will award the next round of CMAA Hawaii scholarships this month to two deserving full time undergraduate students currently enrolled at Honolulu Community College or other Universities who are interested in or pursuing a major/minor in Construction Management. We thank you all for supporting the events that make this award possible. Also in September we will hold elections for our 2018 Board- CMAA Hawaii has come a long way over the last 7 years, if you would like to have a hand in where it is headed, why not consider running for a board position on the 2018 leadership team?

Coming up in October, we will have 2 important events; the first is the **2017 CMAA National Conference and Trade show Oct. 8-10 in Washington DC**, and following this, our chapter will host our **6th Annual CMAA Golf Tournament** benefitting our scholarship recipients and funding our other Chapter activities. Please plan to join us **Friday Oct 27th, 2017** at the **Ewa Beach Golf Club** for this event and stay tuned for more information via our Email blasts!

We would love for you to be a part of the excitement that is CMAA Hawaii. 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>.



Po Box 12204 Honolulu, HI 96828
www.uhalumni.org/eaauh

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	Landon Sakai
	Wayne Shiroma
	Jonathan Suzuki
	Edward Yoshimura
	Kyle Yukumoto
Student Dir	Michele Shimoda

You're Invited - 10th Annual Holmescoming

Mark your calendar for the 10th Annual Holmescoming Celebration on Friday, October 20, 2017! Come and "talk story" with your fellow alums and friends and supporters of the college and enjoy "ono" food from d.k. Steak House and Sansei Seafood Restaurant & Sushi Bar, with entertainment by G2 and slack key guitarist George Kuo.

10th Annual Holmescoming

Friday, October 20, 2017

5 to 8:30 pm

Holmes Hall, UH Manoa Campus

Sponsorships: \$1,500 (\$739 tax deductible; 10 tickets & 1 free valet service for 1 vehicle)

Individual tickets: \$130 each (\$55 tax deductible)

\$75 for engineering faculty, staff, students, and recent grads (2012-2017)

Make checks payable to EAAUH and mail to:

College of Engineering
University of Hawai'i at Manoa

2540 Dole Street

Honolulu, HI 96822

ATTN: Jean Imada

For information, call 956-5112



2016-2017 ASCE Hawaii Section Officers

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 Past Pres.: Ben Rasa, P.E.
email: brasa@ascehawaii.org
 YMF Pres.: Norman Leong, P.E.
email: nleong@ascehawaiiyymf.org

OCEA AWARDS BANQUET

At the 2017 Outstanding Civil Engineering Achievement Awards Banquet, various awards will be given to those projects that demonstrate innovative and outstanding civil engineering accomplishments by Hawaii's design and construction professionals.

Date: Thursday, **September 28th**, 2017

Location: 3660 On The Rise

Time:

5:30p.m. - 6:15p.m. Project Poster Viewing and Cocktails

6:15p.m. - 7:15p.m. Buffet Dinner

7:15p.m. - 8:30p.m. Formal Program (2017 OCEA Awards Presentation and Installation of FY18 Officers)

Menu: Multi-entrée buffet

Cost: Individual Registration: \$110.00 per person
 Table Registration: \$860.00 per table of eight (8)

Reservations:

Please call or email your RSVP to Jason Kage at (808) 440-0213 or *jkage@ascehawaii.org*. Please contact Jason if you do not receive a confirmation on your RSVP. Deadline to RSVP is **Thursday, September 14th, 2017**.

Payment:

Checks (sorry, no credit cards). Please mail your check by **Thursday, September 14th, 2017**. No shows will be billed. Make checks payable to "ASCE Hawaii Section" and mail to:

Jason Kage
 c/o CH2M
 1132 Bishop Street, Suite 1100
 Honolulu, HI 96813

EXECUTIVE COMMITTEE MEETING

Last held: Wednesday, August 2, 2017

Next meeting: September 12, 2017

INFRASTRUCTURE REPORT CARD

Hawaii is the only one in Region 8 that does not have a state report card. If you would like to help create one for Hawaii, please contact Tim Goshi, *tgoshi@ascehawaii.org*.

CONTINUING EDUCATION

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

ASCE HAWAII SECTION STUDENT SCHOLARSHIPS

Please help us increase our scholarship endowment so that we can recognize deserving students. We continue to accept tax-deductible donations with the goal of increas-

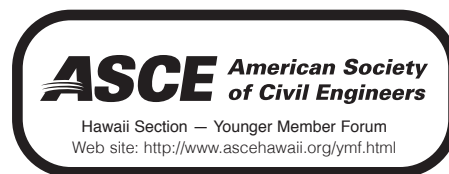
ing the annual scholarships. Make your check payable to 'ASCE Hawaii Section' and mail to: ASCE Scholarship Committee, P.O. Box 917, Honolulu, HI 96808-0917. If you have any questions, please contact Glenn Miyasato at 488-7579, or *gmiasato@ascehawaii.org*.

ASCE JOB LISTINGS

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

- 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
- 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
- Changes and Claims Manager – PGH Wong Engineering, Inc.
- Changes and Claims Specialist – PGH Wong Engineering, Inc.
- Office Engineer - PGH Wong Engineering, Inc.
- Scheduler - PGH Wong Engineering, Inc.
- 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>.



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nleong@ascehawaiiyymf.org
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 Nicole Nakaoka, Secretary
nnakaoka@ascehawaiiyymf.org
 Austin Wong, Treasurer
awong@ascehawaiiyymf.org
 Amanda Tanaka, Past President
atanaka@ascehawaiiyymf.org

YMF General Meeting

The next YMF general meeting is scheduled for Wednesday, September 6, 2017 at 6:00 pm at Chez Kenzo. 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*.

Newtown Driving Range Outing

On Saturday, June 17, 2017, YMF held a dri-

ving range outing at the Newtown Driving Range in Aiea. Eleven YMF members attended and helped each other out with tips to improve their game. Overall, everyone enjoyed the beautiful afternoon refining their golf skills and networking with other engineers. Thank you to all who participated in this event. Please keep checking the YMF website for information regarding the next YMF Golf Outing.



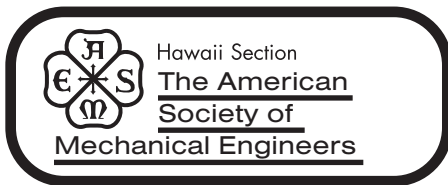
Special Olympics 'Aukake Classic

On Saturday, August 5th, six YMF members volunteered at the 'Aukake Classic Event for the Special Olympics at Waiu District Park in Pearl City. The 'Aukake Classic is a two-day event in which athletes throughout the state compete in a multi-division 5-a-side soccer tournament, individual skills soccer competition, and traditional and unified bocce doubles competition. The coaches and athletes trained from June through August and competed in area and regional competitions in preparation for the event. The 'Aukake Classic marks the end of the Special Olympics Summer season. YMF members worked with the Special Operations Team in ensuring the water jugs were kept full throughout the event, replacing trash/recycle bags, and breaking down at the end of the day. Thank you to the YMF volunteers for coming out to help and to Cindy Ujimori for coordinating this event with the YMF.



ASCE YMF Job Shadow Program

Most students will often go through school having little to no knowledge of what the work environment will be like once they graduate college and enter the workforce. The ASCE Hawaii Section YMF Job Shadow Program offers students the opportunity to spend a few hours with working professionals to gain a better understanding and valuable insight into the civil engineering work environment. Students will follow and observe professionals at work while learning about the various aspects of civil engineering. While hosting students, professionals will be able to share the various responsibilities, duties, and experiences within civil engineering. For more information regarding the ASCE Hawaii Section YMF Job Shadow Program and/or if your company is interested in hosting students in the program, contact Brandon Uejo at *buejo@ascehawaiiyymf.org*.



www.asme-hi.com

ASME-HI 2017-2018 Officers

Chairperson	Froilan Garma	321-2691
	<i>Froilan.B.Garma@jci.com</i>	
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Past-Chair	Derek Sato	
	<i>derek.sato@hawaiianelectric.com</i>	
HCES Rep:	Derick Kam	
Alternate:	Froilan Garma	

NEXT ASME-HAWAII GROUP (SECTION) GENERAL MEMBERSHIP MEETING

Date: To be determined.
Time: usually 5:30 pm to 7:00 pm
Place: usually at HECO's Ward Ave Cafeteria Conference Room
Agenda: 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 incoming Chairman Froilan Garma for directions and for more information, such as parking within Hawaiian Electric's Ward Avenue facilities.

AUGUST 8, 2017 GENERAL MEMBERSHIP MEETING HILITES

New Hawaii Group Chairman Froilan Garma held his first meeting on August 8, 2017 at the Hawaiian Electric Ward Avenue cafeteria. The reports and discussions included the following:

- HCES report was made by Chairman Garma who attended the September 19 meeting at Belt Collins Hawaii.

- UHM Student Section report by Ryan Roque: Students are participating in Freshman Challenge event where freshman can participate in projects prior to the start of school. Challenges are predetermined for team of different disciplines to collaborate with help from UHM Engineering clubs. College of Engineering Career Fair is set for October 18, 2017, from 1:00 pm to 4:00 pm. A Professional Networking Dinner is planned the same week as the career fair. Holmescoming will be on October 20, 2017. Getting ready for ASME shirt sale.

- UHM Department of Mechanical Engineering (DME) report by Dr. A. Zachary Trimble: There are 402 undergraduate students (224 Seniors, 94 Juniors, 39 Sophomores, and 45 Freshmen) registered in ME for Fall 2017. Additionally, there are 76 pre-engineering students registered for at least one ME course. There should be at least 25 ME graduate students. Dr. Marcelo Kobayashi is now chair of the DME, taking over from Dr. Mehrdad G. Nejhad. His plans include DME collaborating with the Hawaii Natural Energy Institute for offering more Technical Electives on energy related subjects; Dr. Trevor Sorenson will be managing a new design course to revamp ME 213, ME 481, and ME 482 courses to include more participation from all professors and adding focus on aerospace; introducing a CO-OP program for selected students to receive capstone design credits; and major changes to the thermofluids curriculum. New additions to the DME

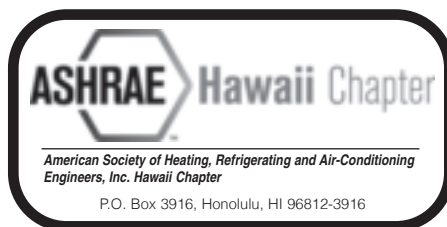
include Dr. Joe Brown, nanotechnology expert, on August 1, 2017, and Dr. Woonchul Lee, nanoscale energy transport expert on January 2, 2018. Dr. Beei-Huan Chao has retired. DME will advertise for two faculty positions in Fall 2017, most likely in Mechanics and thermofluids.

- ASME Hawaii shirts received. Additional Padfolios to be ordered for meeting guest speaker gifts.

- Section or Group Bylaws: More information and clarifications needed from ASME on Group Operation Guide pertaining to Section or Group bylaws. Does the Section maintain its own bylaws?

- Tours being planned: HECO's CIP Power Station 1 MW Battery Project tentatively for October 2017. On Kauai, New solar city/Tesla Solar Plus Storage Project and/or Green Energy Closed-Loop Biomass Plant.

- Presentation for meeting: "STEM in the Classroom"- Robotics Programs by Tyson Hamamoto.



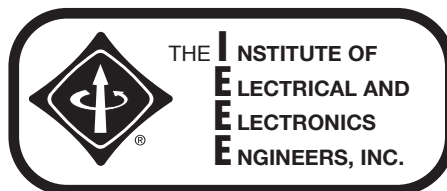
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Vice President:	Mofazzal Mir P.E.
Secretary:	Willie Diguc
Treasurer:	Samantha Niver P.E.
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	Matt Tio
	David Lebowitz
	Lori Arakawa P.E.
	Andy Crossland P.E.
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HAWAII CHAPTER OFFICERS

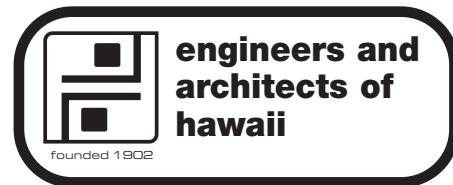
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PO. Box 1901, Honolulu, HI 96805-1901

An association for Hawaii's Engineers and Architects

WEB address: www.eahawaii.org

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EAH September Program

Program Chair: Bill Brizee – EAH Past President

Friday Sept 1 – No Meeting – Labor Day Holiday

Friday Sept 8 - Speaker: Bill Brizee – AHL Principal

Title: "Live, Work, Play Aiea"

Bill, a Principal at Architects Hawaii and past EAH President, will talk about one of his current projects in Aiea that allow people to Live, Work and Play and never leaving their property.

Friday Sept 15 - Speaker: Terry McFarland, AHL Principal

Title: "Farrington High School Stadium"

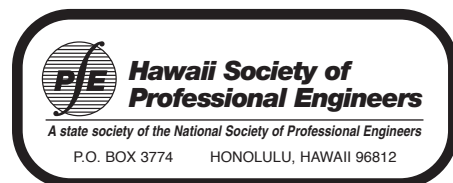
Terry McFarland, a Principal at Architects Hawaii, will talk about the just opened \$19.5m Farrington High School Stadium and locker rooms which is Phase 1 of the Master Plan for the School developed by AHL.

Friday Sept 22 - Speaker: TBA

Friday Sept 29 - Speaker: Danny Moats

Title: "High Rise Glass Reflectivity"

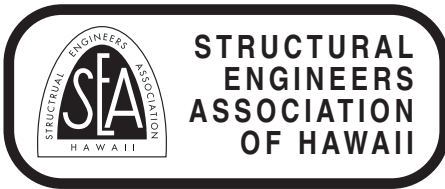
Danny Moats, a Senior Associate at Architects Hawaii, will talk about selecting glass for high rises that meets reflectivity rules and energy efficiency goals to avoid the reflectivity problems experienced at Symphony Tower condominium.



<http://www.hawaiispe.org/>

HSPE Officers, 2016 to 2017

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Vice President:	Michael A. Lum <i>mlum@bowersandkubota.com</i>
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PO BOX 3348, HONOLULU, HI 96801

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

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Director (Yr 1)	Deborah Kim-Ito	271-2862
	dkimito@pono-gms.com	
Past President	Jeffrey Hanyu	536-2108
	jeffreyhanyu@allisonide.com	

PREVIOUS BOD MEETING

August 2, 2017

General Membership Meetings/Technical Seminars/Events

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

- CRSI Seminar – Economical Concrete Buildings: Seismic Detailing – September 2017, details to be announced.
- SEAOG Golf Tournament – October 13, 2017, Hoakalei Country Club, Save the Date flyers with information have been emailed to members.
- AISC Seminar – Bracing Connections and Related Topics – October 2017, details to be announced.
- General Membership Meeting was held on July 26, 2017. Jonathan Murai gave updates on the SEAOG committees and announcements of upcoming events. The concrete repair webinar to be presented in conjunction with the meeting was not shown due to technical difficulties. We apologize for the trouble and will try to show it in the upcoming months.

New Member Applications An application for the following individual has been received and is open for comments from the membership: Frances Li for Associate Member.

Special Inspections Committee is currently working on updating the City and County of Honolulu's Special Inspection Form. Please contact Jonathan Murai if you are interested in serving on the Committee.

Nominating Committee has been appointed to come up with a slate of candidates for next year's Board. The committee consists of Jeff Hanyu, Jonathan Murai, Jeoffrey Cudiamat, Akira Usami, and Kevin Galvez. Are you willing to serve your organization or know a good candidate? Nominations may be sent to Jonathan Murai until October 3, 2017.

Scholarship application for members or children of members is available on the website. SEAOG will award up to three \$3,000 scholarships to students furthering their education in structural engineering. Applications must be postmarked by September 13, 2017.

The funds for the scholarship are primarily generated by the annual golf tournament so member firms are urged to participate by entering a team or donating prizes.

Next Meeting on September 6, 2017. For information, contact SEAOG President; Jonathan Murai jmurai@kaihawaii.com.



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Join AACE for the "BIM & Reality Capture in Construction" presentation. This technical meeting will be led by Chris Baze on Friday, August 25, 2017 at 11:00 AM. Cost is \$15 and includes a lunch and soft drink. Please RSVP for more information (aacehawaii@section@gmail.com) by August 21.

Our local Board Meetings are held monthly. Feel free to contact us with suggestions. For more information, please visit our website www.aacehawaii.com.



Website: www.acechawaii.org

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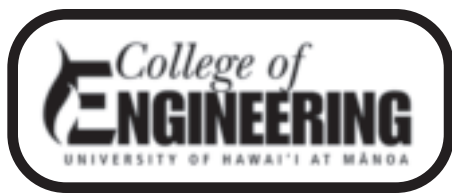
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STATE OF UH COLLEGE OF ENGINEERING, from page 1

8,000 participants. Professor Wayne Shiroma's team brought this symposium to Hawaii in 2007 and then again this year. Vice chair Justin Akagi was a student in 2007 when the conference first came to Hawaii and now he's a nuclear engineer at Pearl Harbor.



Civil Engineering Professor Ian Robertson was recently named to Engineering News-Record's list of "Top 25 Newsmakers in 2016" for his "crucial contributions to the campaign that resulted in the 2016 adoption of the world's first standards for tsunami-resistant design." "ENR chose Professor Robertson for a number of reasons. He was a significant contributor to the American Society of Civil Engineers' Tsunami Loads and Effects Committee's report on the performance of structures impacted by Japan's 2011 Tohoku Tsunami, which proved critical in modeling tsunami forces. He provided guidance during the commenting and balloting segment of the International Code Council's adoption process, weighing heavily on their decision to adopt the new standards. He played a key role in developing studies that demonstrated the effectiveness and cost-efficiency of the new standards on buildings in tsunami hazard zones of five western U.S. states" <source: <http://www.eng.hawaii.edu/enr-top25/>>. Robertson was recently selected as the Arthur N.L. Chiu Distinguished Professor of Civil & Environmental Engineering. The Chiu endowment was created in memory of Dr. Arthur N.L. Chiu, a distinguished professor of the College of Engineering.

The Regents' Medal for Excellence in Teaching is awarded by the Board of Regents as tribute to faculty members who exhibit an extraordinary level of subject mastery and scholarship, teaching effectiveness and creativity and personal values that benefit students. Albert S. Kim (a recipient of this award) is an associate professor in the civil and environmental engineering department in the College of Engineering. He is described by a student as a "once-in-a-generation mentor, professor and teacher, inspiring the next generation of engineers and leaders" and as "instru-

mental in unlocking my potential and finding my calling." He makes the complex field of engineering accessible and fun, creating a sense of community and belonging in the classroom. He attends, with greater focus, to students who are initially lagging, with a goal to produce academically mature students who are able to face and tackle complex practical problems with technological honesty, sincerity and creativity. Kim has developed his own text for one course, and his blog and ample external resources are tremendous additions to this program <source: <https://manoa.hawaii.edu/chancellor/awards/#regents-teaching>>.

Many coastal regions across the world have severe drought conditions. The World Health Organization says safety and accessibility of drinking water are major concerns. A group of researchers from the University of Hawaii at Manoa and MIT says that the generation of clean drinking water and related energy cost savings might both be achieved by co-locating hydro energy storage systems with reverse osmosis desalination plants. They call it an integrated pumped hydro reverse osmosis (IPHRO) system. UH Manoa mechanical engineering Assistant Professor A. Zachary Trimble is one of the authors of "Integrated Pumped Hydro Reverse Osmosis systems," an article about IPHRO published in *Sustainable Energy Technologies and Assessments*. The report includes specific case studies for Southern California, Baja, Hawaii, Chile, Peru and the Middle East. Among the regions highlighted in the article are the islands of Lanai, Maui and Oahu. According to the authors, Oahu, with a population of almost 1 million, would require an IPHRO system of about one square kilometer and the report also has suggestions about where to locate such a system <source: <https://www.hawaii.edu/news/2017/05/23/integrated-pumped-hydro-reverse-osmosis/>>.

Agriculture Secretary Tom Vilsack announced the investment of \$26.6 million by the U.S. Department of Agriculture (USDA) into 45 projects that will spur innovative conservation initiatives on both rural and urban farms across the country. The University of Hawaii at Manoa Water Resources Research Center (WRRC) received nearly \$1 million of this funding to conduct a three-year research project focusing on developing optimal irrigation strategies in farmlands throughout Hawaii, Guam and American Samoa. Sayed M. Bateni, WRRC assistant researcher and an assistant

professor with the UH Manoa Department of Civil and Environmental Engineering, is leading the project. "This project highly affects the agronomy and economy of farms in Hawaii, Guam and American Samoa, and is critical both to crop health and water use efficiency." <source: <https://www.hawaii.edu/news/2016/09/08/uh-water-resources-research-center-receives-nearly-1m-for-water-sustainability-project/>>

Student Achievements

"UH Civil Engineering students Alexander Gomes, Minhthuch Le, Hideichi Mori, and Tatiana Oje were announced as the winners of the ASCE award for "Excellence in Civil Engineering" for their entry in the "Make the Ala Wai Awesome" Student Design Challenge at the 2017 World Youth Congress earlier this month. With Professor Roger Babcock serving as their faculty adviser, the team was one of more than three dozen from around the world that submitted designs. Titled "Wai Pono", their design incorporated routine dredging, detainment, and the use of flood plains as a part of a comprehensive plan to fix one of the nation's most polluted bodies of water" <source: <http://www.eng.hawaii.edu/uh-engineering-students-win-for-making-the-ala-wai-awesome/>>.

Since its founding in 1974, the Honolulu chapter of ARCS has annually supported about a dozen American doctoral students in the sciences, mathematics, engineering, medicine and nursing at the University of Hawaii at Manoa. We have awarded more than \$1.7 million to nearly 600 scholars. These awards are made possible through the endowment and fundraising activities of chapter members—women who believe that science holds answers and who remain committed to promoting U.S. leadership in scientific discoveries and technological innovations <source: <https://honolulu.arcsfoundation.org/arcs-foundation-honolulu/>>. This year Gui Chao Huang, a PhD candidate in electrical engineering, won the Bretzlaff Award in Engineering for his work on the development of a high-performance, low-cost communication antenna array. Brennan Yamamoto, a PhD candidate in mechanical engineering, was awarded the Shelagh Kresser Award in Engineering for studying vibration energy harvesting, 3D printing and unmanned systems.

continued on page 7

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STATE OF THE COLLEGE

from page 6

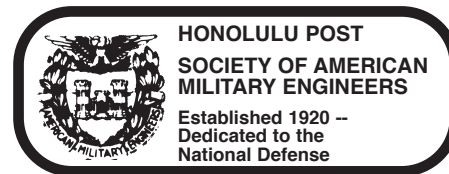
On November 18, team Nimbus participated in the Pacific Asian Center for Entrepreneurship (PACE) shark tank competition, and was successfully selected for the Judges' Choice Award. The competition was hosted by the UH Manoa Shidler College of Business in the iLab, where six finalists pitched their innovative ideas. Millions of people around the world are forced to rely on water contaminated by harmful substances. Several factors are making this problem worse: droughts caused by climate change; an increasing frequency in natural disasters driven by hotter ocean surface temperatures; and a rise in the human population. All these factors are sharply reducing the amount of potable water, pushing us towards a bleak future. To address this growing crisis, a group of seven mechanical engineering students from the University of Hawaii at Manoa turned to an Atmospheric Water Generator (AWG) as a solution. These undergraduate students (team Nimbus) have sought to develop a novel approach to extract water from the atmosphere with the least amount of power for condensation <source: <http://www.eng.hawaii.edu/nimbus/>>. Team members included Ame Masutomi, Blayton Padasdao, Bradley Beaudry, Eric Ucol, Garreth Goya, Maverick Matsuoka, and Ryan Chun with faculty advisor Dr. Bardia Konh.

The Delta Omega Chapter of Eta Kappa Nu (HKN), the honor society for IEEE, has won the Outstanding Chapter Award for the 11th year in a row. The chapter inducted 15 new members at its induction banquet on April 30, and transitioned its leadership from President Scott Nishihara to incoming president Kevin Cho <source: <http://www.ee.hawaii.edu/events/news.php?nws=133>>. The Outstanding Chapter Award (OCA) recognizes excellence in IEEE-HKN chapters for their activities. The award is based on the content and description of chapter activities that are contained in the Annual Chapter Report (which summarizes the chapter's activities from the previous academic year of 1 July to 30 June) <source: https://www.ieee.org/education_careers/education/iee_hkn/awards/oca.html>.

The University of Hawaii at Manoa **ASCE Student Chapter** was awarded the 2017 Richard J. Scranton Outstanding Community Service Award. This award was named in recognition of Richard J. Scranton who promot-

ed community service as an integral part of student chapter activities. The UH- Manoa Chapter exemplifies the tradition of public service. Congratulations to our ASCE Student Chapter and its advisor Dr. **Roger Babcock** <source: <http://www.cee.hawaii.edu/news/>>.

Nine XE students made the department proud by winning the Pacific District Chi Epsilon Cup for the 3rd time in seven years at the 29th Annual Pacific District Conference held at University of California at Irvine, November 10-12, 2016. They were the defending champions from 2015. Students competed against 13 other California universities that comprise the Pacific District in a build-off competition, chapter presentations, quizzes, catapult construction competition, Simpson Strong Tie competition, chapter key exhibit and many other competitions. The UH winning team members included Megan Chang, Clara Sachs, Jennylyn Tapat, Skyler Tengan, Yasmeen Mansour, Kimberly Chun, Lance Lam, Lee Schultz, Jr. and Keenan Nakagawa. Congratulations to the XE chapter at UH-Manoa and their advisor Dr. Phillip Ooi <source: <http://www.cee.hawaii.edu/news/>>.



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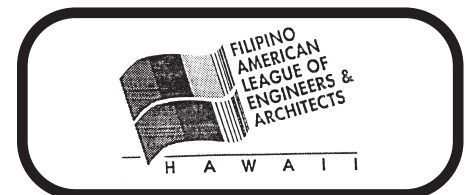
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