VOL. 50 NO. 7

SERVING 2000 ENGINEERS & LAND SURVEYORS

SEPTEMBER, 2014

COLLEGE OF ENGINEERING UPDATE

Dean Peter Crouch sends thanks to all alumni and friends for supporting the college through donations, scholarship, sponsorship and coordination of the annual banquet and Holmescoming, service on advisory committees, volunteering for events, and other numerous ways of giving back to the College. In particular, the proceeds from the annual banquet financially support the students, both current as well as prospective. A major use of the funds is support of research experiences for undergraduates wherein the students write proposals with their faculty mentors to perform research projects. Seed money for supplies if provided and the students have the opportunity to pursue and develop research ideas. In addition, monies for travel to conferences on the mainland broaden the students' understanding of being professional engineers. Banquet funds also support STEM (science, technology, engineering and mathematics) events for K-12 students, exciting them about the prospect of majoring in STEM subjects in college. A new program was introduced last year for unrestricted multidisciplinary student projects, again using the proceeds from the banquet. Banquet attendees look forward to exciting displays and presentations about all of these projects as well as interacting with the students to hear about the challenges and accomplishments in doing their research.

The College had seen its undergraduate enrollment steadily climb, due, in part, to the K-12 events that the College has been sponsoring. In the fall of 2006, our undergraduate enrollment was 800 students. Our fall 2013 enrollment was 1,263, an increase of over 50% in eight years. Growth is exciting but not without its challenges to provide classes and advising for such a large increase.

Holmes Hall has been the home for engineering since 1972, with the addition of space in the POST Building in 1997. Holmes Hall needs renovation. A design that worked over 40 years ago no longer meets the needs of our curriculum and changing research. Fortunately, the State Legislature has appropriated \$2 million for planning/design of the renovation of Holmes Hall. New spaces for student projects, updated classrooms, renovated research laboratories and conference rooms are part of the vision for Holmes Hall. The dean would like to thank all of our friends who took the time to testify on behalf of the College.

Upcoming Events

Twice a year the College hosts a Career Fair for both engineering and computer science students. Employers from Hawaii as well as several mainland companies recruit graduating

seniors for positions within their companies or upper level students for summer internships. Please contact Dr. Myhraliza Aala, phone 956-0776, email maala@hawaii.edu, if you are interested in setting up a booth at Career Fair. The fall fair will be held on Wednesday, October 15, 2014, on the first floor of Holmes Hall.

Please join us for the 7th Annual Holmescoming celebration on Friday, November 21, 2014. The celebration starts at 5:00 p.m. on the front lawn of Holmes Hall. There will be great food, entertainment, and lots of time for fellowship with your classmates. Check the College's website—www.eng.hawaii.edu—for details on how to get your tickets.

And mark your calendars for the 15th Annual College of Engineering Dinner. It will be on Thursday, April 23, 2015 at the Hawaii Convention Center. Come and meet our students—see what innovative ideas they have come up with.

Faculty Accolades

Dr. David Garmire, an associate professor in the Electrical Engineering Department, was nominated by a student for an outstanding teaching award. Garmire submitted a dossier that contained his philosophy of teaching, evaluations of his teaching by his students, letters of recommendation from students and peers, and syllabi of his classes. The selection committee awarded him the Frances Davis Award for Excellence in Undergraduate Teaching. This award is given to a faculty member who shows dedication and demonstrated excellence in teaching undergraduate students. The award honors the late Francis Davis who taught mathematics in the UH System for 19 years.

Recipient of a prestigious National Science Foundation (NSF) CAREER award, Dr. Yi Zuo is studying the molecular mechanisms of lunch surfactants which are critical to maintain normal respiratory function of our lungs. Zuo, an associate professor in the Mechanical Engineering Department, is using surfactants to treat neonatal and adult respiratory dis-The CAREER award is a five-year, \$400,000 grant that is awarded to outstanding young researchers and is one of NSF's most competitive and prestigious awards. award recognizes the faculty member's excellent research, outstanding teaching, and the integration of teaching and research. Since the inception by the National Science Foundation of this prestigious award, 19 faculty in the College of Engineering have won the award.

Dr. Magdy Iskander, Professor of Electrical

Engineering and Director of the Hawaii Center for Advanced Communications, has invented a new type of stethoscope, the Cardo-Pulmonary (CP) Stethoscope. The CP-Stethoscope uses a radio frequency sensor to detect changes in the water content of lungs, and can monitor heart and respiration rate, and stroke volume. Measuring the changes in water content of the lungs can be an important detection of heart failure and the procedure is non-invasive. Iskander, recently formed MiWa Technologies, a company that will ultimately manufacture and sell the CP-Stethoscope. His team from MiWa Technologies won first place in the 2014 UH Business Plan Competition for the stethoscope. The Cp-Stethoscope also won Best of Show in the National Science Foundation Innovation Corps Program.

Dr. Tianwei (David) Ma and his graduate student Hui Zhang have made a technical breakthrough — they've developed a theoretical model along with a prototype device that can harvest mechanical energy to power wireless sensor networks. These autonomous networks are used in monitoring natural systems like a body of water to ensure that it's safe for recreation, as well as buildings, bridges, dams and the like to ensure their structural health. In order for the sensors to transmit data, they need a power source other than batteries which are sometimes impractical to replace in the field. Ma's device harvests mechanical vibrations (such as those generated by the passage of vehicles) and converts these vibrations into electricity to power the sensors. His device responds to multiple frequencies, a new approach in that earlier devices only tried to match the dominant frequency of the system being monitored.

November 19, 2013 was a historic day for Dr. Wayne Shiroma, Professor and Chair of the Electrical Engineering Department. A United States Air Force rocket, launched from Wallops Flight Facility in Virginia, carried the first UH made small satellite into space. Shiroma is the founder of the UH Small Satellite Program which he started in 2001. Several hundred students have participated in the program, giving them valuable hands on experience. Larry Martin (graduate student, Electrical Engineering) and Windell Jones (graduate student, Mechanical Engineering), were at the launch and part of a team of 30 students who spent three years designing and building the cube satellite under Shiroma's tutelage. Ho'oponopono 2 is about the size of a loaf of bread and weighs only nine pounds. It cost only \$220,000 to build and replaced a satellite

continued on page 7



Published monthly by:

HAWAII COUNCIL OF ENGINEERING SOCIETIES

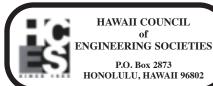
SERVICE PRINTERS. INC.

1829 Dillingham Boulevard • Honolulu, HI 96819 Telephone: (808) 841-7644 • Fax: (808) 847-1487 ADDRESS ARTICLES FOR PUBLICATION TO: WARREN YAMAMOTO

1526-C Pukele 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.



Les Kempers

HOME PAGE: http://hces.us

2014-2015 OFFICERSChair: Dean Borges

Chair-elect:

SEAOH

UHM CoE

SEPE

SWE

Secretary: Joanne Hiramatsu Treasurer: Stephanie Doan Representative soc Alternate AACE K. Kastner K. Hayashida **ACFCH APWA** J. Lau ASCE D. Barsana R Bahcock ASHRAE P. Scott D. Kam **ASME** J. Ahern CMAA C. Lum G. Paterson W. Wong EAH **FWBH** N Waters FAI FA S. Agraan G Albano **HSPE** J. Dubois K. Kunimine IEEE G. Torigoe W. Yamamoto SAME B. Zachmeier

A. Agapay S. Dannaway

C. Jow

S.K. Choi



HONOLULU POST SOCIETY OF AMERICAN MILITARY ENGINEERS

Established 1920 --Dedicated to the National Defense

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

2013-2014 OFFICERS

President VP/Programs VP/Sustaining Members VP/Membership Secretary Treasurer Reg. VP, Pacific Region COL Gregory J. Gunter, USA Bryan Zachmeier, USAF (Ret)

Will Boudra, PE, USN (Ret) Jerry Matsuda, PE, USAF (Ret) 1LT Steven LaFave, USA David Brotchie, PE

Bill Grip, PE



engineers and architects of hawaii

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

EAH 2013- 2014 Officers

President	Joseph Feind	543-4781
1st VP	Bill Brizee	523-9636
Treasurer	Aaron Erickson	591-2728
Secretary	Gary Yamamoto	485-2777
Past Pres	Howard Wiig	587-3811
Director	Dave Martin	543-4504
Director	Michael Albright	
Director	Andv Keane	531-3017

EAH's new meeting location is above the Mango Grill in the Topa Tower (Ewa tower on Fort Street) of the Topa Financial Center (Old AMFAC Bldg). Take the elevator to the 3rd floor conference room. 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.

\$10.00 Members, \$12.00 Guest (All Welcome), Students Free. Bring Your Own Lunches Welcome, Drink Refreshments are complimentary. A \$2.00 donation is very gratefully appreciated!!



www.asme-hi.com

ASME-HI 2014-2015 Officers

Chairperson	Derek Sato	543-4108
	Derek.sato@hawaiianelec	tric.com
Vice-Chair	Derick Kam	848-6966
	kam@thermaleng.com	
Secretary	Kory Ikeda	628-1231
•	kory.isamu@gmail.com	
Treasurer	Kevin Dang	737-1708
	dangk001@hawaii.rr.com	
Past-Chair	Kory Ikeda	628-1231
HCES Rep:	Derick Kam	
Alternate:	Derek Sato	

NEXT ASME-HAWAII SECTION GENERAL MEMBERSHIP MEETING

Date: October 15, 2014 Tentative
Time: 5:30 pm to 7:00 pm
Place: HECO Ward Ave Cafeteria

Conference Room Program: To be determined.

All members are invited and encouraged to attend. There will be free pizza and soft drinks, as usual. Please contact Chairman Derek Sato or Secretary Kory Ikeda for directions and for more information, such as parking.

AUGUST 6 MEETING CANCELLED

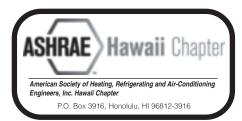
Our August 6 meeting was to feature Speaker Edward Russell, Project Manager, Hawaii Center for Advanced Transportation Technologies (HCATT), speaking on a demonstration project to use PV to generate hydrogen

as a fuel source to power hydrogen fueled vehicles used as part of Hickam AFB's fleet. Unfortunately, it was cancelled due to the uncertainty of the approaching Hurricane Iselle still packing damaging winds. Members who planned to attend were given extra time after work to prepare, such as tying down possible flying objects, boarding up windows, and getting necessary supplies. Fortunately, we dodged another bullet when the mountains of the Big Island help slow down Iselle.

Plans were initiated by Chairman Sato to reschedule this meeting on August 27, 2014

ASME HAWAII SHIRTS

Chairman Sato suggested procuring ASME polo shirts and made several recommendations to the executive committee for comments and feedback. These shirts follow examples of those procured for the Chairman's department at Hawaiian Electric. Consequently, the research has been done as to what is available and costs. Preliminary discussions and possibly decisions will be by email.



Hawaii Section Officers 2014-2015

William (Bill) Lee, PE President Pres-Elect Donna Kishi Vice Pres Dean Borges, PE Secretary Kevin Luoma, PE Treasurer Mofazzal Mir, PE Past Pres Barry Jim On, PE Bd of Governors Richard Beall, PE Ryan Chang, PE Matthew Tio Dean Oakley David Parke



The Society of FIRE PROTECTION ENGINEERS

HAWAII CHAPTER OFFICERS

President: Robert Bigtas
S.S. Dannaway Associates
rbigtas@ssdafire.com
Vice President: Derick Kam
Thermal Engineering Corporation
Secretary: Ferdi Guinto
Lohaus and Associates
Treasurer: Sam Dannaway
S.S. Dannaway Associates
Director: Mel Harano
Thermal Engineering Corporation
Director: Bob Lohaus
Lohaus and Associates

Deadline for **Wiliki**

is September 15th



2013-2014 ASCE HAWAII SECTION OFFICERS Office Name Phone

President: Brian Enomoto, P.E. 388-5559
email: benomoto@ascehawaii.com
Pres-Elect: Glenn Miyasato, P.E. 488-7579
email: glenn@mkellc.com

Vice Pres: Benjamin Rasa, P.E. 497-6209

email: ben@tapestrypartners.net

Secretary: Timothy Goshi, P.E. 791-3966

email: tgoshi@kaihawaii.com
Treasurer: Lara Karamatsu, P.E. 566-2227

reasurer: Lara Karamatsu, P.E. 566-222

email: karamatsu@pbworld.com

Immediate

Past Pres: Ian Arakaki, P.E. 596-7790 email: ian@tlcghawaii.com

YMF President: Jason Sugibayashi, P.E. 237-3218 email: jsugibayashi@ascehawaiiymf.org

SEPTEMBER DINNER MEETING

OCEA AWARDS BANQUET

Program: Annual ASCE Hawaii Section
Outstanding Civil Engineering

Achievement (OCEA) Awards Banquet; Recognizing a variety of outstanding civil engineering accomplishments by local design and construction professionals.

Date: Saturday, September 27, 2014

Location: HASR Bistro

31 North Pauahi Street, Hon., Oahu

See www.ascehawaii.org for more information and RSVP form.

12th ANNUAL ASCE HAWAII GOLF TOURNAMENT

On Tuesday August 26th, 2014, golfers gathered at the Pearl Country Club to participate in our 12th Annual ASCE Hawaii Section Scholarship Golf Tournament in Honor of Steve Fong. Originally scheduled for August 8th, the tournament had to be rescheduled due to approaching hurricanes Iselle and Julio. It was a day of fun, fellowship and camaraderie, as three player teams scrambled their way through the golf course. We would like to thank our tee sponsors, manpower volunteers, student volunteers, participants, and the golf tournament committee, for making this year's tournament a great success.

ASCE FELLOW

We would like to congratulate Gary K. Chock, S.E., F.ASCE for his election to grade of ASCE Fellow. Fellow status is a prestigious honor only attainable through professional accomplishments and election by the Membership Application Review Committee. Fellows must demonstrate, through a distinguished career, the mark they have left on their communities, society, future engineering professionals and the Civil Engineering profession ASCE members. For more on the story, please visit http://blogs.asce.org/chock-elected-asce-fellow/

NEW REGION 8 GOVERNOR

We would like to congratulate ASCE Hawaii Section Past President Dawn Szewczyk, P.E., on her appointment to the position of Region 8 Governor. Mrs. Swezczyk brings a wealth of knowledge and leadership to her new appointment and will act as the main conduit for com-

munication between the Board of Direction and its committees, and the local sections and branches. Mrs. Swezczyk will replace current Region 8 Governor Horst Brandes, PH.D., P.E., F.ASCE starting October 1st.

FY2014-2015 ASCE HAWAII SECTION OFFI-CERS

The following officers will be installed at the OCEA Awards Banquet on September 27, 2014.

- · President: Glenn Miyasato, P.E.
- President-Elect: Benjamin Rasa, P.E.
- Vice President: Timothy Goshi, P.E.
- Secretary: Lara Karamatsu, P.E.
- Treasurer: Eric Arakawa, P.E.
- Immediate Past President: Brian Enomoto, P.E.
- YMF President: Keane "Puna" Kaneakua, P.E.

Congratulations and good luck to our FY 2014-2015 Executive Committee!

EXECUTIVE COMMITTEE MEETING

Last held: August 7th, 2014 Next meeting: September 9th, 2014

CONTINUING EDUCATION

ASCE National holds more than 275 seminars and computer workshops each year on a wide variety of technical, management, and regulatory topics. These seminars are held in more than 45 cities across the U.S. In addition, ASCE offers customized on-site training and many distance learning programs, including live interactive web/teleconference seminars, online courses and courses on CD, videotape, and audiotape. Please visit http://ascehawaii.org 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 increasing the annual scholarships. Make your check payable to 'ASCE Hawaii Section' and mail to: ASCE Scholarship Committee, P.O. Box 917, Honolulu, HI 96808. If you have any questions, please contact lan Arakaki at 596-7790, or ian@tlcghawaii.com.

See ASCE History, page 4



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

2013-2014 YMF Officers

President Jason Sugibayashi, P.E. 537-9971 jsugibayashi@ascehawaiiymf.org
Vice-President Puna Kaneakua, P.E. pkaneakua@ascehawaiiymf.org
Secretary Amanda Tanaka, P.E. atanaka@ascehawaiiymf.org
Treasurer Norman Leong, P.E. nleong@ascehawaiiymf.org
Past President Kurt Nagamine, P.E. knagamine@ascehawaiiymf.org
Student Chapter President Michelle Chinen, asce@hawaii.edu

YMF General Meeting

The next YMF general meeting is scheduled for Wednesday, September 3, 6:00 p.m. at Holoholo Bar & Grill. If you are interested in attending to find out what the YMF is all about, contact YMF at ymf.hawaii@gmail.com.

ASCE JOB LISTINGS

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

- Civil Engineer VI City and County of Honolulu
- Civil Engineer IV City and County of Honolulu
- Civil Engineer V City and County of Honolulu
- Mechanical Engineer IV City and County of Honolulu
- Director of Design and Construction City and County of Honolulu
- Civil Engineer V SSFM International
- Civil Engineer Coffman Engineers

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/jobs.htm.



Po Box 12204 Honolulu, HI 96828 Website: www.eaauh.org

2014-2015 Officers

President Vice Pres Treasurer Secretary Past Pres Directors Dayna E. Nemoto Keith S. Uemura Neal N. Miyake Anthony J. Paresa Glenn M. Nohara Rodney Chong Ken K. Hayashida John H. Kátahira Ken Kawahara Diane Y. Kodama Stancher Mabellos Mike Y. Magaoay Derek K. Mukai Martin A. Nakasone Ross S. Okuda Wayne A. Shiroma Jonathan M. Suzuki Dennis I. Toba Edward I. Yoshimura Russell Young Kyle Y. Yukumoto Landon Sakai

It's that time again! In a short 6 years, Holmescoming has grown into Hawaii's premier "friendraiser" event, bringing together our engineering community in a very casual format for great food, great drinks, and great entertainment. It's a terrific opportunity to catch up with old friends and create new ones.

PLEASE SAVE THE DATE!
7th Annual Holmescoming
Friday, November 21, 2014
5pm to 8:30pm
Holmes Hall, UH Manoa Campus

Sponsorships: \$1,300 (10 Tickets, recognition and signage at event)

Individual Tickets: \$75 each

Make checks payable to UHF/COE and mail to:

2540 Dole Street, Holmes Hall 240 Honolulu, HI 96822 Attn: Jean Imada For information, 956-5112

KNOW YOUR ASCE HISTORY

by C.S. Papacostas

Closing of Cyclomere

Last month (August 2014) we saw that the Cyclomere Bicycle Track opened on October 23, 1897 and closed its regular season on February 26, 1898 [Hawaiian Star, HS 2/28/1898]. On March 1, a surprise announcement appeared in the HS under the heading "Track May Go:" Owner C. S. Desky was prepared to fill in the lake and subdivide and sell the reclaimed land if a lessor did not step up soon. He did not say that he lost money, but that he could "not tolerate the bickering" that arose in connection to disputed decisions between competitors and judges. In other words, the enterprise was taking an inordinate amount of his time that he could devote to other business endeavors. The Hawaiian Gazette of March 8 speculated that there was a possibility of constructing a stage on a raft in the lake as part of a potentially lucrative "theater scheme [HG 3/8/1898]."

Instead, a group of five "young men," four of whom were riders, formed a "local hui" to lease and operate the racing track [HG 4/8/1898]. Having lost money after only two meets, "no more racing at Cyclomere so far as the hui of local boys is concerned," said the HG [5/10/1898]. Another potential lessor, Manuel Du Ponte appeared next but Desky decided to close up the park at that time [HS 5/16/1898].

A few days later, however, "W. C. Weedon for Bruce Waring & Co. said that the Cyclomere with lake, grandstand and electric light would be at the disposal of the guests of the Big 100 for any purpose [HG 5/24/1898]." This was in reference to a committee of 100 members organized to welcome and entertain American soldiers ("boys in blue") of the Philippine expeditions during the Spanish American War, coinciding, by the way, with the push to annex the islands.

In its "Retrospect for 1898," the Hawaiian Annual explained, "facilities and conveniences of the Hawaiian Islands were tendered by the government to the United States, and Honolulu proved an acceptable way station to her in moving forward the large bodies of troops by all the available steamships that could be secured or pressed into service as transports."

Notably, "additional to several detachments of troops touching here en route to Manila, numbering in all 21,003 men, there arrived for station at this point a corps of Engineers." According to an article titled "Spanish American War Sites in Honolulu" that appeared in the Hawaiian Journal of History (Vol. 39, 2005), "the engineers were sent to build a military post and to survey strategic locations such as Pearl Harbor." They initially shared a temporary camp at the Kapi`olani Park racetrack.

The Annual also informed its readers, "the crowded conditions of the troops on the transports resulted in the development of a number of fever cases and other ailments by the time of reaching this port. This led to the organization of a Red Cross Society by some 300 of the ladies of Honolulu, on June 6th, to minister to the sick and distressed; securing and fitting up for hospital purposes the Child-Garden cottage, on Beretania street... till the establishment of the Military Hospital at Independence Park, which opened August 15th." The Philadelphia Medical Journal of August 6, 1896 anticipated this hospital: "It is the intention of the Government authorities to shortly establish a military hospital in Honolulu, upon the

grounds known as Independence Park."

an interesting history. "Independence Park" on King Street in Pawa`a (widely reported as being "southeast of the corner of Sheridan and King Streets) was called "Little Britain" until July 4th, 1894 when its then owner, J. N. Wright, renamed it during an American Independence Day celebration; it was previously the site of the residence of Captain George H. Luce, first mate on Bark "Eureka" and for many years tax collector for the District of Honolulu. A portion of this land that stretched from King Street to today's Ala Moana Shopping Center location (known as Malo`okahana), had been purchased by British Consul William Miller, who had his country residence there (see Royal Patent Grant Number 2341, dated March 20, 1857); Miller, who arrived in 1844, followed Richard Charlton, instigator of the infamous Paulet Affair. An 1886 32.96 acre Little Britain plat map by M. D. Monsarrat (Reg. 0976) shows a stone wall on the western boundary where Sheridan Street is today and Ke'eaumoku Street terminating on King Street in the middle of the parcel's King Street frontage.

As an aside, this is how the parcel was described in a newspaper advertisement seeking to rent it: "To be let for a term of years, or as may be agreed upon, the whole of those very desirable Premises known as Little Britain, owned by Gen. Miller, beautifully situated a mile from Honolulu, consisting of an excellent Dwelling House which stands on pillars three feet from the ground, with a verandah all round, a Drawing Room, Dining and Bed Rooms, each 12 feet high from floor to ceiling; Dairy, Kitchen and Servants' Rooms, Poultry Houses, Superior Pump and Well and every other convenience requisite for a Family; with or without about 30 acres of appertaining rich Meadow Land, all being securely fenced in and well watered."

To support the new Red Cross Society, "a blue ribbon bicycle meet will probably be given at Cyclomere park for the benefit of the new Red Cross Society," said the HS [6/7/1898]. To this end, "through the kindness of Bruce Waring & Co. the track and lights are given free of charge [and] the Government Band will probably be in attendance [EB 6/8/1898]." Held on June 25, the event "netted the treasury of the Red Cross Society about \$275 [EB 6/28/1898]." By January 1899, the hospital was practically abandoned [HD 1/20/1899].

The Cyclomere park was subsequently leased to Manuel Du Ponte who reopened it on the following July 4th. To boost revenues, the new management began to offer other diversions such as tug-of-war contests, but to no avail for on July 30 the EB headline read "Cyclomere at an End: Track is now being torn up by Gang of Men." On January 9 of 1900 the HS reported that Theodore Hoffman "secured a 100x360 foot location in the site of old Cyclomere Park ("Paka Cyclomere" Hawaiian language papers) for a new ice plant and cold storage, the Oahu Ice Company. The Independent [1/10/1900] declared "Within three months Honolulu will have another ice plant which will be under the able management of Theo. Hoffman. There is no reason why Honolulu should depend on only one company and submit to the exorbitant prices demanded by the monopoly." Hoffman, by the way, had been manager of the Hawaiian Electric Co. since Sept. 1, 1894 and ice manufacture and cold storage facilities were a major part of the company's operations [Pacific Commercial Advertiser 3/10/1897].

The Park was subdivided into lots for sale by Bruce Waring & Co. Incidentally, to this day, lots in the subdivision are still identified as belonging to the all but forgotten Cyclomere tract!

In closing the story of Cyclomere and the early days of bicycling in Honolulu, I offer the following tidbits:

- Bicycle racing had resumed at Kapi`olani Park [e.g., HG 1/1/1897].
- Someone composed a "Cyclomere March" that Professor Berger performed [HG 2/15/1898].
- A "police on wheels" was organized consisting of teams "one a haole man and the other a native" to "put a stop to some of the assertions that are made against police officers who go single handed to make an arrest [HG 11/16/1897]."
- Purchasers of 26 lots at Kewalo who had been given deeds warranting the properties as free from encumbrances were "stuck" with an outstanding mortgage that Desky failed to pay [HG 7/12/1904].
- The tax assessor ordered the confiscation of bicycles without a license tag [HS 5/28, 1907].
- It was unlawful for a bicyclist to carry while riding upon any street anything weighing more than five pounds [EB 9/2/1909].
- A proposed traffic ordinance provided that "bicycles and similar vehicles shall not be allowed to approach dangerously near other moving vehicles [Star Bulletin, SB 3/18/1914]."
- Bicycles were included among the vehicles requiring "a gong, bell, horn or any sound signal device to give warning," but "not be used to make any unnecessary noises [SB 6/3/1914]."

Do you know of a civil engineering accomplishment or event that your fellow ASCE members might find interesting? Please send a brief description to C.S. Papacostas (fax 956-5014, email csp@wiliki.eng.hawaii.edu). Previous articles in the series may be found at the Section's web site. Just point your browser to http://www.ascehawaii.org.

NEW SUB-DIVISION.

Cyclomere Park has been subdivided into lots which are now offered for sale. These lots are particularly suitable for manufacturing sites, storage warehouses and residence purposes, parties seeking locations conveniently near to the business portion of the city will find this a most desirable property. For terms and particulars, apply at the office of Bruce, Waring & Co., Progress block.



2014 Officers

Ken Kawahara 836-1900 President kck@akinaka.com Tyler Sugihara Vice-Pres 768-3600 tsugihara@honolulu.gov 356-1281 Treasurer Victor Valdez vvaldez@ssfm.com Secretary 768-8481 Mark Yonamine myonamine@honolulu.gov Past Pres 488-5000 Jeoffrey Cudiamat engineer@structuralhawaii.com



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

2014 BOD OFFICERS AND DIRECTORS

Position	Officer	Phone
President	Ethan Okuna	945-0198 x103
Vice Pres.	Fernando Frontera	781-2802
Secretary	Evan Mizue	387-2346
Treasurer	Jimmy Lam	223-3638
Dir. (Yr 2)	Paul Kane III	537-2811
Dir. (Yr 2)	Tim Waite	479-1216
Dir. (Yr 1)	Rodney Haraga	782-8661
Dir. (Yr 1)	Michael Kasamoto	589-1170
Past Pres.	Brian Kung	488-7579

HIGHLIGHTS OF BOD MEETING

August 6, 2014

Committee Reports

General Membership Meetings/Technical Seminars/Events

- Mahalo to Brian Kung, SEAOH Past President for coordinating an awesome SEAOH Annual Convention 2014 at Disney Aulani! Please contact any member of the Board if you have suggestions for future SEAOH conventions or events.
- October 22, 24, 30: Wind Design Provisions of the Hawaii State Building Code training session by Gary Chock, SE, FSEI, FASCE.
- Date pending: Seismic Steel Braced Frame Seminar on design concepts and connections, developed by AISC with speaker Rafael Sabelli. Registration info will be sent out soon.

Nominations for 2015 SEAOH Board of Directors:

WE WANT YOU! SEAOH is looking for enthusiastic members to participate in the stewardship of our organization. Please contact E.Okuna if you have interest or would like to nominate a fellow member to serve on next year's board (945-0198 x103, eokuna@cshengineers.com). We're actively seeking volunteers or nominees for Vice President, Secretary, Treasurer, and Director.

Structural Special Inspections:

SEAOH Special Inspections Subcommittee is continuing discussions with the Honolulu Department of Planning and Permitting to explore instituting IBC special inspection requirements and an update of the special inspection form. Regularly scheduled lunch meetings are being held on Fridays, every two weeks, at Baldridge & Assoc. If you have opinions on the future implementation and enforcement of special inspections, please contact Ms. Kulia Boerstler (808) 534-1300, or any member of the Board.

\$1,000 SEAOH Scholarship:

We are accepting scholarship applications through October 3. Application is available on the SEAOH website, *www.seaoh.org*. Intent is to encourage college education for Hawaii's youth - especially for those with structural engineering interests.

New Website:

We are working on developing a new website for SEAOH. Please let us know if you have any ideas on information/functions that should be included in the new website. Also, we are looking for corporate sponsors who are interested in displaying their logo in the website. If

you have ideas for the website or are interested in being a sponsor please contact Fernando Frontera (ffrontera@baseengr.com).

New Member Applications

Applications from the following have been received and are open for comments from the membership:

- Lani Johnson, University of Hawaii, for Student Membership
- Bryce Iwami, University of Hawaii, for Student Membership

Missing Members

Please contact Membership Chairperson, Jiabao Chen (Ph: 791-3945 or email

continued on page 7



Hawaii Section 2014-2015 Officers

www.ite-hawaii.org

President: Pete Pascua
Vice President: Natasha Soriano
Secretary: Sara Toyama
sara.t.toyama@hawaii.gov

Treasurer: Robert Nehmad rnehmad@mmm.com

New Officers

Congratulations to the new officers listed above.

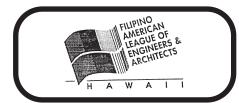
Annual Meeting

On Wednesday, July 30, 2014, ITE Hawaii's annual meeting was held at the Fasi Municipal Building. Vice President Brian Gibson introduced speaker Maaza Mekuria, Ph.D., P.E., PTOE, from the State of Hawaii Department of Transportation. Maaza gave a PowerPoint presentation about Modeling and Evaluating Bicycle Networks Based on Traffic Stress and Origin Destination Connectivity. Maaza gave an interesting presentation on what is a bicycle network, including both low and high speed traffic areas. He explained connectivity as the first priority, and safety with undue detour. He talked about the 4 levels of traffic stress, and how only one percent of riders would fall into this traffic tolerant category.

Director Steven Yoshida announced the results of the Hawaii Section elections and Western District representative Cathy Leong swore in the new officers. Cathy also announced that next year's Western District Annual meeting will be held in Las Vegas.







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

Officers/BoDirectors for 2012-2014

Jeoffrey S. Cudiamat, PE Francisco T. Cruzata, AIA President: VP/Pres-Elect: Secretary: Krizelle Jane C. Mabuti Riza Marie R. Gatdula Treasurer: Ass't Treas.: Maritez A. Marquez Nicolo Orense, PE Lei Racel P. Jaramilla Auditor: Bus. Manager: Press Rel. Off: John C. Ramos, PE Past President: Elvira Sutherland HCES Rep: Suzie S. Agraan Gene Albano

HIGHLIGHTS & AUGUST BOARD MEET-ING:MEMBERSHIP - the newest addition to the membership roster is Dawn Barsana-Szewczyk. Welcome aboard!

SUMMER PICNIC & GENERAL ASSEMBLY

- Chairperson Elvi Sutherland updated the Board Members during the August 1st Board Meeting about the logistics and made sure that each was committed to and understood their assignments. Date: Saturday, August 16, 2014. Venue: Blaisdell Park in Waimalu. This event's highlight is the election of officers and directors for the next Fiscal Year's administrative year, 2014-2016, which starts this coming October 1st. Needless to say, as you read this article, the biennial activity took place as scheduled. Spearheading the initial effort of the day were 4 early risers, Joey, Elvi, Belinda, Maritez & John who were at the park around 3:30AM to secure the best possible area to set up FALEA's tent. The gallon of Starbucks coffee brought by Elvi gave us some needed jolts of energy putting up the tent, and also helped keep us awake until people started arriving around mid-morn-Frank Cruzata, President-Elect, was in charge of the nominations/election. His slate of nominees, were declared elected by acclamation. Congratulations to the following Officers & Board of Directors who will manage the organization for the next two years. Officers: President - Frank T. Cruzata, Vice-Pres/Pres-Elect - Gene C. Albano, Jr., Secretary - Tez A. Marquez, Treasurer - Riza Marie R. Gatdula, Assistant Treasurer - Belinda Tegui, Auditor - Ramon B. Bonoan, Jr., Business Manager - Ferdie B. Guinto, Press Relations Officer - John C. Ramos, and Immediate Past President - Jeoffrey S. Cudiamat. Directors: Elvi M. Sutherland, Majella D. Stevenson, Angie L. Armas, Nick A. Orense, Joey G. Resurreccion, Eugene N. Calara, and Jojo A. Lopez. As in past years, the event was a potluck affair highlighted with a "Lechon" paid for by FALEA. There were also door prizes donated by members.

INSTALLATION BANQUET - Mark your calendars! Our final event of the year, d'Grand Finale, will be on October 11, 2014 at the Pacific Beach Hotel! More details soon.

> Wiliki **Advertisers Wanted**



CMAA Hawaii Chapter

http://hawchapter.cmaanet.org

Officers

President Tim Bramsen president@cmaahawaii.org 256-2020 Tim Bramsen 836-7787 Vice Pres vicepresident@cmaahawaii.org
Jeff Clark 839-0646 Treasurer Jeff Clark treasurer@cmaahawaii.org Dorok Mukai 531-4252 Secretary

secretary@cmaahawaii.org

Director Bill Thornton

director@cmaahawaii.org Past President Mike Young 836-7787 hawaii.cmaa@gmail.com

News:

In the month of September, the CMAA Hawaii Chapter is looking for energetic and qualified candidates to serve on the board or as a committee chair. If you are interested or would like to nominate someone, please contact one of the officers or email us at hawaii.cmaa@ gmail.com.

Just a reminder that our chapter is here for all Construction Engineering and Management professionals.

Upcoming chapter events for the end of summer and fall include:

- We will have a Hale Hilina'i Community Service event on September 13th to help prepare part of the building for use by a hula halau by painting the lanai.
- · Our September 17th luncheon will feature a speaker from the Department of Health regarding Contaminant Awareness.
- The 2014-2015 CMAA Hawaii Chapter Officer elections will be taking place in September.
- Our 3rd Annual Scholarship Golf Tournament is coming up on October 3rd at Coral Creek Golf Course. Registration and Sponsorship Opportunities are available.
- The CMAA National Conference will be in October 19th - 21st in San Francisco this

If you have any questions regarding any of our upcoming events, would like to get involved with the CMAA Hawaii Chapter or would simply like to be added to our email list, please contact one of our board members or email us at hawaii.cmaa@gmail.com.



Hawaii Section 2014-2015 OFFICERS

www.aacehawaii.org

President Kristy Kastner, PSP Vice President Greg Treese Secretary Maelyn Uyehara Cristo Rojas Treasurer Director of Certification Stephen Jacobson, CCP Director of Communications Joseph Uno, LEED AP BD+C Director of Membership/Webmaster David Ladines



P.O. Box 88840 Honolulu, HI 96830 Website: www.acechawaii.org

2014-2015 Board of Directors

President

William Bow, Bow Engineering & Development

President-Elect Robin Lim, Geolabs

Treasurer

Corey Matsuoka, SSFM International Secretary

Jeff Kalani, Yogi Kwong Engineers

National Director

Sheryl Nojima, Gray Hong Nojima & Associates Past President

Beverly Ishii-Nakayama, Shigemura Lau Sakanashi Higuchi & Associates

Garret Masuda, Insynergy Engineering, Inc. Ken Kawahara, Akinaka & Associates, Ltd. Sean Sugai, Ronald N.S. Ho & Associates



http://www.hawaiispe.org/

2013-2014 Officers and Directors HSPE Officers, 2014 to 2015

Darren Okimoto President dokimoto@wsue.com

Curtis Beck President-elect curt137inverse@yahoo.com Kurt Kunimune Secretary kkunimune@bowersandkubota.com Joelle Dubois Past President/Treasurer

idubois@bowersandkubota.com Majella Stevenson NSPE HOD Rep

Majella.Stevenson@navy.mil

Barry Nakamoto Educational Foundation barry.nakamoto@heco.com

Marc Botticelli Kona-Kohala President

marc@wrsasolutions.com

Maui Chapter Director Mandy Saito

mandy@femaui.com



Engineers Without Borders - Honolulu http://www.ewbaloha.org

2012-2013 Officers

President: Wesley Wong President-Elect: Alyssa Smith Secretary: Erin Allmann Treasurer: Chad Livingston Events Chair: Omar Razvi Fundraising Chair: Brett Updyke Membership Chair: Sumon Kanpirom

Engineering Update, from page 1

that was 20 times larger and 40 times more expensive.

Student Accolades

Jonathan Dang, an electrical engineering graduate student, won the 2014-2015 IEEE Life Members Graduate Student Fellowship in Electrical Engineering. The prestigious award, established in 2000, is given annually to only one first year, full-time graduate student in electrical engineering for research in an area of electrical engineering. Competition is worldwide and Dang joins students from schools like MIT, Georgia Tech, Darwin College (United Kingdom), McGill University (Canada), and Columbia in winning the award which provides a stipend of \$10,000 per year, renewable for a second year. Dang's research proposes moving metal at will in 2D. It involves developing liquid-metal circuits and components. As an undergraduate at UH Manoa, Dang was selected as the 2014 Student Engineer of the Year by HCES, was a Regents Scholar, and president of Eta Kappa Nu, the electrical engineering student honor society.

SmarTummy LLC, a startup company led by electrical engineering graduate student Larry Martin, won \$10,000 for placing third at the 2014 Innovation Showcase SmarTummy is a tool that can be used to train healthcare students in abdominal palpation examinations. The simulator mimics different abdominal ailments, giving the tactile feel of various abdominal ailments such as appendicitis, tumors, bowel obstruction, distended bladder and peritonitis. A quick and accurate diagnosis by health care professionals of these ailments can make a significant difference in patient outcomes and save the health care systems thousands of dollars per patient. Dr. Walton Shin, a pediatric surgeon for more than four decades, had the idea for a training device like SmarTummy and worked with Martin, College of Engineering alum John Salle and Dr. Scott Miller from the College to develop the device. In addition to the ASME award, the SmarTummy team received a grant from the National Collegiate Inventors and Innovators Alliance, and first place at the 2013 University of Hawaii Business Plan Competition.

Wenqi Hu, Qihui Fan, Sammy Khamis and

Edward Nerard (all electrical engineering students) competed at the 2014 Mobile Microrobotics Challenge held in Hong Kong at the end of May, placing third in the mobility event. Teams from the US, Canada, France, Korea and Switzerland The Challenge, part of the IEEE International Conference on Robotics and Automation, promotes innovation to surmount the challenges faced by microrobots. Our microrobot is a small air bubble inside of a microchamber and is moved by heat generated by light from a laser. The Challenge has two events, mobility and micro-assembly. In the mobility challenge, the microrobot is times as it moves around various courses. For the assembly challenge, the robot assembled microtriangles in a designated area.

Fifty four ASCE Student Chapter members and faculty advisor Dr. Roger Babcock attended the Pacific Southwest Conference this past April in San Diego, California. The students competed in 16 events, placing second overall in the steel bridge competition and third in the men's endurance concrete canoe race. The steel bridge team, led by Captain Kristy Nakamoto, earned the right to compete at the National Student Steel Bridge Competition. The concrete canoe team also won a special Sportsmanship Award for saving a drowning paddler from another team. Nainoa Pihana and Kaniela Fernandez, who saved the paddler, along with the rest of the team, received a standing ovation at the awards banquet. Conference co-chairs Kenny Kwan and Shawntrelle Sookia, along with the rest of the members, thank all the companies and other sponsors who made donations of over \$42,000 to assist the students with expenses

The Rainbow Racers, consisting of 20 mechanical engineering students, headed to Lincoln, Nebraska this past June to compete in the Formula SAE challenge. It's been a number of years since the students built a racecar; it's a time-consuming, expensive endeavor. The students started in 2013 to design a car, dividing themselves into five subsystems—chassis, suspension, engine, drivetrain and body. Long hours of design and building, sometimes 70 hours a week during semester breaks, resulted in a racecar that can accelerate to 80 to 90 miles an hour on a flat surface. Albert Carter, the Project Manager, said that it

was a challenge to combine the ideas of all the team members but they all worked as a team to finish the racecar. Final cost of the racecar was \$70,000 and the team has recruited about 30 new members for next year's competition. The team completed the competition but not before serious engine problems occurred and ended up placing 54th out of 80 entries in the internal combustion class. We wish them better luck next year.

SEAOH, from page 5

jchen@kaihawaii.com), or any of the SEAOH Officers if you have a new mailing and/or email address.

Next Meeting

The next SEAOH Board of Directors and Officers meeting will be held on Wednesday, September 3, 2014. Contact SEAOH President Ethan Okuna (945-0198 x103, eokuna@cshengineers.com) for more information.



SWE – Hawaiian Island Section P.O. box 61728 Honolulu, HI 96839 Swe.hisection@gmail.com

Executive Committee:

President: Alyssa "Sunshine" Smith CH2M HILL

Vice Pres.: Chancy Hopper

ArdentMC

Secretary: Amy Weintraub Women in Technology

Treasurer: Kristen Au Belt Collins

Charter Sec. Rep.: Rena Chock

HECO

Professional Directory



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

RETURN SERVICE REQUESTED

Presorted Standard U.S. Postage Paid Honolulu, Hawaii Permit No. 1838

Professional Directory



tel: 808.521.3051

ALLANA BUICK & BERS

Building solutions. Engineering for life. Waterproofing & Roofing **Building Envelope & Solar Solutions** 808.538.0115 www.abbae.com

Meron Ameron

2344 Pahounui Drive • Honolulu, HI 96819-2220 P.O. Box 29968 • Honolulu, HI 96820-2368 (808) 832-9408 • Fax (808) 832-9470 aaron.uno@nov.com





BILLS ENGINEERING INC. Civil Environmental Engine

Tel: 808.792.2022 Fax: 808.792.2033 1124 Fort Street Mall Suite 200 Honolulu, HI 96813 info@BillsEngin



• 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



Maui - Honolulu brownandcaldwell.com

UMMING

Building Value Through Expert Cost and Project Management Services

808.947.4525

YOUR AD

COULD APPEAR

HERE FOR

\$235 A YEAR

COFFMAN LASTING Creativity | results | relationships

Multidiscipline Engineers www.coffman.com Suite 300 Honolulu, HI 96813 808.687.8884

A ControlPoint Surveying, Inc.

Oahu: 1150 South King Street, Suite 1200 Honolulu, Hawaii 96814 Ph:(808)591-2022, Fax:(808)591-8333 Email: surveying@cpshawaii.net

Maui: 1129 Lower Main Street, Suite 102 Walluku, Hawaii 96793 Ph:(808)242-9641, Fax:(808)244-9220 Email: cpsmaui@cpshawaii.net Y. Ebisu & Associates

Acoustical and Electronic Engineers

1126 12th Avenue, Room 305

Honolulu, Hawaii 96816 (808) 735-1634

When it's RUST Call us (808) 676-1963 www.corrosioncops.com



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



1320 N SCHOOL ST., STE 1 HONOLULU, HAWAII 96817

Phone: 591-8116

MASA FUJIOKA & ASSOC. A PROFESSIONAL PARTNERSHIP

S. S. DANNAWAY ASSOCIATES, INC.

ENVIRONMENTAL • GEOTECHNICAL • HYDROGEOLOGICAL

OONSULTANTS

98-021 Kamehameha Highway, Suite 337
Aica, Havaii 967014914
Phone 808 484-5366 • Fax 808 484-0007
masa-fujioka-associates.com • mfujioka@masafujioka.

FUKUNAGA & ASSOCIATES, INC.



1357 Kapiolani Blvd., Suite 1530 Honolulu, HI 96814 Ph: 944-1821 • Fax: 946-9339 office@fukunagaengineers.com www.fukunagaengineers.com

YOUR AD COULD APPEAR HERE FOR \$235 A YEAR

YOUR AD COULD APPEAR HERE FOR \$235 A YEAR

HIDA, OKAMOTO & ASSOCIATES, INC.

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

Gray-Hong-Nojima & Associates, Inc.



ЮR

ALFIG www.hdrinc.con

Wastewater

POWER SOLUTION



94-025 Farrington Hwy. Waipahu, Hawaii 96797 808/676-0205



PACIFIC GUARDIAN TOWER 1440 Kapiolani Boulevard, Suite 1120 Honolulu, Hawaii 96814 Phone: (808) 942-0066 Fax: (808) 947-7546

CONSULTING CIVIL ENGINEERS

Hirata & Associates, Inc. Geotechnical Engineering 808.486.0787

www.hirata-hawaii.com



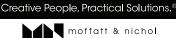
SAM O. HIROTA, INC.

864 S. Beretania Street Honolulu, Hawaii 96813



INABA ENGINEERING, INC. 273 WAIANUENUE AVENUE HILO, HAWAII 96720

Phone: (808) 961-3727 / Fax: (808) 935-8033 Civil Engineering · Land Surveying Email: inabaeng@hawaii.rr.com



Marine & Transportation Planners and Engineers 808,533,7000_www.moffattnichol.com



Kennedy/Jenks Consultants

Engineers & Scientists Airport Industrial Park Building 3375 Koapaka Street | Suite F-227 Honolulu | Hawaii | 96819 P: 808.488.0477 | F: 808.488.3776 www.KennedyJenks.con

NAGAMINE OKAWA ENGINEERS INC.

CONSULTING STRUCTURAL ENGINEERS

1003 Bishop Street • Suite 2025 Honolulu, Hawaii 96813 Phone: (808) 536-2626 • FAX: (808) 536-3926



Engineers & Surveyors

Telephone: 537-9971



680 lwilei Road, Suite 430 • Honolulu, Hawaii 968 Tel (808) 596-7790 • Fax (808) 596-7361 • tlcghawa

NAKAMURA, OYAMA AND ASSOCIATES, INC

CONSULTING ENGINEERS ELECTRICAL/TELECOMMUNICATIONS/FIRE PROTECTION 1314 South King Street, Suite 401, Honolulu, HI 96814 Telephone (808) 591-8887 Fax (808) 596-2383

