VOL. 50 NO. 3

**SERVING 2000 ENGINEERS & LAND SURVEYORS** 

MAY, 2014

### First Annual Hawaii Resiliency Challenge

HRC 2014 - Water Warriors

The University of Hawaii Chi Epsilon Chapter (XE), together with the College of Engineering (CoE), Oceanit Laboratories Inc. (Oceanit), and the Office of Naval Research (ONR), hosted the first annual Hawaii Resiliency Challenge (HRC 2014) on April 11-12, 2014. This inaugural challenge focused on "How Might We" design a solution to produce clean drinking water during a disaster that the everyday person might build from materials found at home and the local hardware store, City Mill.

Students from diverse majors from the University of Hawaii Manoa, Community Colleges, and several industry people brought their enthusiasm, knowledge, and creativity to create a simple, effective, efficient yet inexpensive water filter system using everyday materials. The first day of the event was held at the University of Hawaii at Manoa Campus Center, and the second day held at the College of Engineering Holmes Hall.

The devastating effects of Typhoon Haiyan in the Philippines in part, inspired this challenge last year. The ability to obtain clean water after a natural disaster is essential for life. After a catastrophe, access to potable water will be difficult. Having a filter readily available at home is beneficial to recover drinking water should a disaster hit Hawaii.

Nearly 100 participants, volunteers, design coaches, and judges supported the two-day event. Students of different disciplines such as business, engineering, sciences, and education worked together in teams of five to seven people. Design coaches from Design Thinking Hawaii, the State of Hawaii's Department of Health, Hawaiian Tel, Island Insurance, and other organizations assisted the participants through the Design Thinking process.

The Design Thinking process kicked off Friday night with open research about various methods to filter water but also analogous mediums like water, oil, air, blood, etc. and to share those insights with the entire room. Teams were given a "How Might We" brainstorming statement to kickoff an ideation sesion to generate lots of ideas, and a way to filter down hundreds of ideas to create multiple low-resolution prototypes of the most feasible, usable, and buildable ideas.

Teams were then given the opportunity on Saturday morning to test their low-resolution "paper cups and duct tape" prototypes using contaminated water made of Starbuck used coffee grounds and saw dust. The concept of build to learn and fail fast to learn quickly eventually led to final prototypes costing less than

## **National Public Works Week**

National Public Works Week (NPWW) is traditionally sponsored and observed during the third full week in May. During May 18-24, Hawaii Chapter will maintain an exhibit of various recent public works projects to energize and educate the public on the importance of the contribution of public works to their daily lives. The annual exhibit will be on display for the entire week in Kahala Mall near Macy's.

This year's theme, "Building for Today, Planning for Tomorrow", represents the classic idea of stewardship embodied by the profession of public works and the professionals that practice it. "Building" underscores the day-today aspect of public works that is quality of life, while "planning" references the sustainable practices that ensure quality of life for future generations.

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

APWA encourages public works agencies and professionals to take the opportunity to make their stories known in their communities. Over the years the observances have taken many forms, including parades, displays of public works equipment, high school essay contests, open houses, programs for civic organizations and media events. The occasion is marked each year with scores of resolutions and proclamations from mayors and gover-



nors, as well. Some special historical highlights of NPWW include a United States Senate resolution affirming the first National Public Works Week in 1960, letters of acknowledgment from Presidents Dwight Eisenhower and Lyndon Johnson, and a Presidential Proclamation signed by John F. Kennedy in 1962.

\$50 from items purchased at City Mill.

Teams developed innovative ideas other than sand filters and distillation systems because almost 50% of the score was utilizing the Design Thinking process and the other 50% on the technical solution. To encourage the process, teams were judged on numerous categories including the diversity of the team members based on discipline, the number and variety of ideas and prototypes, and lastly, the efficiency and effectiveness of their technical solution to process contaminated sample water. The judges were Dean Peter E. Crouch and Assistant Dean Song K. Choi of CoE, Dr. Patrick Sullivan of Oceanit, Mr. Scott Seu of HECO, Mr. Clifton Ching of ONR, and Mr. David Oyadomari of Bank of Hawaii.

The event created a safe environment to be creative; to fail quickly but also learn quicker;

to build to learn; to collaborate across teams; to prototype multiple ideas in low resolution; and to test those prototypes or elements of

continued on page 7



Water Warriors



Published monthly by:

HAWAII COUNCIL OF ENGINEERING SOCIETIES

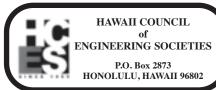
SERVICE PRINTERS. INC.

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.



Dean Borges

HOME PAGE: http://hces.us

#### 2014-2015 OFFICERS

Chair:

SEAOH

UH(assoc)

**SFPE** 

SWF

Chair-elect: Les Kempers Secretary: Joanne Hiramatsu Treasurer: Stephanie Doan SOC Representative Alternate AACE K. Kastner **ACECH** K. Hayashida **APWA** J. Lau D. Barsana **ASCE** R. Babcock **ASHRAE** P. Scott D. Kam ASME J. Ahern CMAA C. Lum G. Paterson EAH W. Wong **EWBH** N. Waters **FALEA** S. Agraan G. Albano **HSPE** K. Kunimine J. Dubois IFFF G. Torigoe W. Yamamoto ITE SAME B. Zachmeier

A. Agapay

C. Jow

S.K. Choi

S. Dannaway



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



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

#### Officers for 2013-2014

Officers for	2010-2017	
President	Beverly Ishii-Naka	yama 942-9100
Pres-Elect	William Bow	941-8853
Treasurer	Robin Lim	841-5064
Secretary	Corey Matsuoka	531-1308
Nat Director	Sheryl Nojima	521-0306
Past Pres	Terrance Arashiro	533-3646
Director	Jeff Kalani	942-0001
Director	Garret Masuda	521-3773
Director	Paul Morimoto	486-0787, ext. 105

### ACEC HAWAII ELECTS 2014-2015 BOARD OF DIRECTORS

During its annual business meeting, held on April 10, 2014, at the Honolulu Country Club, the membership of ACEC Hawaii voted to approve the following as its 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 Nation Director - Sheryl Nojima, Gray Hong Nojima & Associates

Past President - Beverly Ishii-Nakayama, Shigemura Lau Sakanashi Higuchi & Associates

Director - Garret Masuda, Insynergy Engineering, Inc.

Director - Ken Kawahara, Akinaka & Associates, Ltd.

Director - Sean Sugai, Ronald N.S. Ho & Associates

ACECH Hawaii would like to thank these individuals for volunteering and for accepting the responsibility to serve our organization. Their one year tenure begins July 1, 2014.

#### **MEETING ANNOUNCEMENT**

May 8, 2014 (Thursday)

Time: 11:45 a.m.

Location: Honolulu Country Club

Topic: Ms. Jadine Urasaki from the State Dept of Transportation will discuss their upcoming capital improvement

projects

#### **MEETING ANNOUNCEMENT**

June 5, 2014 (Thursday)

Time: 11:45 a.m.

Location: Honolulu Country Club Topic: To be announced

Please email *gwright@acechawaii.org* to register or obtain more information.

## 50th anniversary Trivia Question of the Month

To help celebrate our 50th anniversary in 2014, an ACECH trivia question will appear in each of this year's issues of the Wiliki. The answers to the questions and background information will appear in the subsequent issues.

This month's question: Which ACECH firm won EEA Grand Conceptor 3 years in a row?

Answer to the previous question: In 1994 Don Austin, who served as President of Consulting Engineers Council of Hawaii (CECH) from 1976-77, was the first person to be honored as a Life Member of ACEC Hawaii (formerly CECH).



#### CMAA Hawaii Chapter

http://hawchapter.cmaanet.org

#### Officers

President Tim Bramsen 836-7787 president@cmaahawaii.org Vice Pres Neil Kaneshiro 562-308-8734 vicepresident@cmaahawaii.org 593-1116 Treasurer Darla Guerrero treasurer@cmaahawaii.org Dustin Timm 256-2020 Secretary secretary@cmaahawaii.org Past Pres Mike Young 836-7787

admin@cmaahawaii.org

#### News:

On April 22nd, The Chapter in partnership with the City and County of Honolulu held a storm water workshop and mock EPA/DOH Audit. The workshop provided regulatory background and updates on revisions to the Hawaii Administrative Rules. Training was provided on construction BMP inspection considerations as well as preparing for an EPA/DOH audit.

We were excited to find out that our Program Committee Chair, Aaron Sundberg recently passed his CCM Exam. Way to go Aaron!

#### Upcoming events for May include:

Save the Date! May 21st is the date of this year's CMAA Hawaii Chapter Mini-Conference. The conference will be at Hale Ikena from 11:30am till 4:00pm followed by a chapter sponsored (pupus) social hour. So far, Conference speakers include Mark Yonamine from the City and County of Honolulu, Paul Brussow from Rider Levett Bucknall, Norman Takeya from HCC and Nick Soto from CMAA National.

- The Student Outreach Committee is planning a site visit for CM Students to the new building construction just underway at the Kapiolani hospital for Women and Children. This should happen early in May.
- The Honolulu Community College Architectural, Engineering and CAD (AEC) Technologies department will have an event for the public to review the portfolios of their class of 2014. The event is planned for Wednesday, May 14, 2014 from 5:30 pm – 7:30 pm at Honolulu Community College, Building 2, 2nd Floor.

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

# Deadline for *Wiliki*

is May 15th



www.asme-hi.com

#### ASME-HI 2013-2014 Officers

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

#### NEXT ASME-HAWAII SECTION GENERAL/ EXECUTIVE COMMITTEE MEETING

Date: June 18, 2014 Tentative Time: 5:30 pm to 7:00 pm

Place: TBA Agenda: TBA

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

## ASME-HI 2014-2015 OFFICERS & DIRECTORS

Congratulations to our 2014-2015 Officers & Directors, Chairman Derek Sato, Vice-Chair Derick Kam, Treasurer Kevin Dang, Secretary Kory Ikeda, Directors 2-yr term: Ed Chang and Ronald Flegal, and hold-over Director Raymond Liu. Our balloting ended April 30, 2014.

## CONGRATULATIONS STANFORD YUEN, UH BOARD OF REGENTS

Stanford B.C. Yuen, ASME-HI member and recently the HCES 2014 Lifetime Achievement Award recipient, was confirmed by the State Senate to serve on the UH Board of Regents. Yuen has a 5-year term effective July 1, 2014 and ending June 30, 2019.

## FRANCIS R. MONTGOMERY DESIGN COMPETITION

Dr. Zac Trimble reports that the annual Francis Rhodes Montgomery Design Competition is planned for Friday, May 9, 2014 at the University of Hawaii, Manoa campus in HIG 110 auditorium. The competition is scheduled from 12 noon to 6:00 p.m. Presentations will be from 12 noon to 4 p.m., followed by the poster and hardware session from 4 p.m. to 5 p.m., and ending with the awards and pizza and soft drinks from 5 p.m. to 6 p.m. Three monetary prizes will be awarded.

Six teams are entered and they include SAE Formula Race Team, ALP Cooler team, SAE Regular Aero design team, UH Micro Warriors (SAE Micro Aero design team), HSFL Torque Rods team, and the Marine Robotics at UH team.

- SAE Formula Race Team is competing in the 2014 SAE formula race design series. They are competing in the Lincoln, Nebraska event in June.
- ALP Cooler team is developing a solar powered retrofit kit for mid-scale fishing coolers.
   The kit is intended to reduce the ice con-

- sumption on short (12-14hr) deep sea fishing trips.
- SAE Regular Aero design team is competing in the 2014 SAE regular aero design series.
   They are competing in the west competition in Fort Worth, Texas at the end of March.
- UH Micro Warriors (SAE Micro Aero design team) is competing in the 2014 SAE micro aero design series. They are competing in the west competition in Fort Worth, Texas at the end of March.
- HSFL Torque Rods team is working with the Hawaii Space Flight Laboratory (HSFL) here at UH Manoa to develop a less expensive magnetic torque rod for controlling the attitude of smaller satellites.
- Marine Robotics at UH is a multi-disciplinary team consisting of ME and EE students that will be competing in the 2014 AUVSI Roboboat competition in July.

## ME STUDENT SECTION HAWAIIAN ELECTRIC POWER PLANT TOUR

The tour held March 26, 2014 had eleven student members participating. See their group photo with Kahe 3, 4, 5 and 6 in the background.





#### Hawaii Section 2013-2014 OFFICERS

www.aacehawaii.org

President Kristy Kastner, PSP Vice President TBD Secretary Kevin Mitchell Treasurer Guia Lasquete Director Amarjit Singh Director Maelyn Uyehara James Mulhearn, PMP Dir. Of Membership Past President Stephen Jacobson, CCP

The AACE Hawaii Section hosted a Certification Program Overview Webinar. The presentation outlined the AACE certification program. It also covered AACE's portfolio of certifications, eligibility requirements and examination objectives. This live webinar was well attended and generated certification interest among our membership.

Upcoming events include local elections for the 2014-15 AACE Hawaii Section Board of Directors (May 2014) and CMAA Hawaii Chapter extending an invitation to AACE to their Happy Hour Event (May 1, 2014, 4:30 PM, Bar 35). We look forward to your continued interest and support.

For more information, please visit our website www.aacehawaii.org.



#### 2014 Officers

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

#### **Annual Education Fund Golf Tournament**

The 21st Annual Education Fund Golf Tournament was held Friday, April 11, at the Ala Wai Golf Course. Golf Committee Chair Rouen Liu extends a big mahalo to all participants and volunteers for yet another successful event. Proceeds will sustain the Chapter's education fund which provides annual monetary awards at the State Science and Engineering Fair and annual partial scholarships towards higher education tuition to eligible students who major in a public works-related field. Incoming Chapter officers for 2014 were also introduced and installed at the conclusion of the tournament.



Left to right, President Ken Kawahara with Scott Kunioka, Garrett Muraoka, Lance Watanabe, and Tony Gaston enjoying the afternoon on the busiest golf course in the world according to the Guinness Book of World Records.



## 2013-2014 HAWAII CHAPTER OFFICERS, BOARD OF GOVERNORS AND COMMITTEE CHAIRPERSONS Chapter Officers

President: Barry Jim On, P.E., LEED AP, CxA President-Elect: William "Bill" Lee, P.E., LEED AP Vice President: Donna Kishi Secretary: Dean Borges, P.E., LEED AP, CxA

Treasurer: Kevin Luoma, P.E.

#### **Chapter Board of Governors**

Kevin Saito, P.E., LEED AP Richard Beall, P.E. Dean Oakley Ryan Chang, P.E. Scott La Beau



## 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 email: karamatsu@pbworld.com

Immediate

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

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

#### **MAY DINNER MEETING**

Topic: Overview of the Hawaii Environmental Policy Act

Speaker: Leslie Segundo – Environmental

Health Specialist, State of Hawaii, Department of Health

Program: This presentation will address

the fundamentals of the Hawaii Environmental Policy Act, with information on basic terms, process flow charts and document preparation.

Date: Thursday, May 22nd, 2014

Location: Dave and Busters
Time: 5:30 p.m. - Social Time
6:30 p.m. - Dinner
7:00 p.m. - Program

Menu: Multi-entree buffet

Cost: \$30.00 for ASCE Hawaii Section

members

\$35.00 for Non-ASCE Hawaii Section members and Guests \$20.00 for University of Hawaii Student Chapter members

#### Reservations:

Please make checks payable to ASCE-Hawaii Section and mail to Lara Karamatsu, ASCE Hawaii Section Treasurer, Parsons Brinckerhoff, American Savings Bank Tower, 1001 Bishop Street, Suite 2400, Honolulu, Hawaii 96813. Please send reservations for the dinner meeting to Lara Karamatsu by Monday, May 12th, 2014, by phone at 566-2227 or email at karamatsu@pbworld.com. No shows will be billed. For sponsorship opportunities, please contact Ben Rasa at 497-6209 or ben@tapestrypartners.net.

## 2014 ASCE WALTER LUM SCHOLARSHIP RECIPIENTS

The ASCE Hawaii Section has awarded two \$3,000 Walter Lum Scholarships to deserving College of Civil and Environmental

Engineering students at the University of Hawaii at Manoa. This year's recipients are Michelle Chinen and Jefferson Young. Ms. Chinen is currently a Senior with a 3.32 GPA. Ms. Chinen is also the President of the UH Student Chapter of ASCE and a member of the Chi Epsilon Civil Engineering Honor Society. Mr. Young is currently a Junior. Mr. Young maintains a 3.99 GPA and is an active member of the UH Student Chapter of ASCE. ASCE congratulates Ms. Chinen and Mr. Young for their academic accomplishments and for their

contributions to the UH ASCE Student Chapter. Their awards were presented at the April 16th ASCE Dinner Meeting at Dave and Busters.

### AMERICAN SOCIETY OF CIVIL ENGINEERS SCIENCE FAIR AWARDS

The 57th Annual Hawaii State Science and Engineering Fair was held from April 1-2 at the Hawaii Convention Center, and by all accounts was a resounding success. Each year, more than 2,000 students from public and private schools from throughout the islands participate, of which 300 students advance to the Hawaii State Science and Engineering Fair, held here in Honolulu. Projects and presentations were organized into three categories: Senior Research; Junior Research; and Junior Display. ASCE Hawaii Section once again participated in the State Science Fair by judging projects and presented three awards: Two (2) \$200 student project awards and one (1) \$100 teacher/mentor award. This year, one of the \$200 student project awards was presented to Marissa Kwon from Hawaii Baptist Academy, with her senior research project entitled: "A survey of the microbial community in the molasses spill". The second winner was Jacob Heberle from Niu Valley Middle School with his project entitled: "London Bridge is Falling Down! The Effect of Beam Bridge Design on Mass Tolerance". The teacher award went to Kathy Lin of Highlands Intermediate School for her outstanding encouragement and guidance.

#### **EXECUTIVE COMMITTEE MEETING**

Last held: April 8th, 2014 Next meeting: May 6th, 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 <a href="http://ascehawaii.org">http://ascehawaii.org</a> 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.

#### **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
- Senior Geotechnical Engineer/Manager Parsons Brinckerhoff
   Senior Civil Engineer - Occapit Laboratories
- Senior Civil Engineer Oceanit Laboratories, Inc.
- Civil Engineer Coffman Engineers
- Civil Engineer(Jr. Civil Engineer) Belt Collins

- Civil Engineer Group 70
- Civil Designer Group 70

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 <a href="http://www.ascehawaii.org/jobs.htm">http://www.ascehawaii.org/jobs.htm</a>.



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, May 7, 6:00 p.m., at Ryan's Grill. If you are interested in attending to find out what the YMF is all about, contact YMF at ymf.hawaii@gmail.com.

#### ASCE YMF Softball Game & BBQ Social

By Austin Wong & Emily Dong, Social Chairs On Monday, March 31, 2014, ASCE YMF Hawaii hosted their Third Annual BBQ Social at Kamamalu Park against Community Planning & Engineering. Over 30 people joined in cheering on both teams. Pushing through a friendly rivalry, the ASCE YMF team prevailed for the win! Afterwards everyone gathered for the polish dogs, fresh veggies, chips, dip and great company until the weather turned. Thanks for all who came out!



The YMF team enjoying themselves at the food table.

See ASCE History on page 6

Wiliki Advertisers Wanted



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
	eokuna@cshengineers.d	com
Vice Pres.	Fernando Frontera	781-2802
	ffrontera@baseengr.com	
Secretary	Evan Mizue	387-2346
	emizue@gmail.com	
Treasurer	Jimmy Lam	223-3638
	Jimmy.Q.Lam@usace.ar	
Dir. (Yr 2)	Paul Kane III	537-2811
	alohamarketing@hawaii.	
Dir. (Yr 2)	Tim Waite	479-1216
	twaite@strongtie.com	
Dir. (Yr 1)	Rodney Haraga	782-8661
	rharaga.mih@gmail.com	
Dir. (Yr 1)	Michael Kasamoto	589-1170
	MKSE@hawaiiantel.net	
Past Pres.	Brian Kung	488-7579
	brian@mkellc.com	

#### HIGHLIGHTS OF BOD MEETING

April 2, 2014

#### **Committee Reports**

General Membership Meetings/Technical Seminars/Events

- SEAOH Annual Convention 2014: Tentatively set for August 22-23 at Aulani. Features a half-day technical session on Friday, Friday night dinner, and a Saturday golf event. Announcement to be issued soon.
- June 26: PT Design Seminar by the Post Tensioning Institute. Pagoda Hotel, 8:00am-5:00pm. More info to come soon.

#### **New Member**

Application from Damien Enright for the grade of affiliate Member has been received and is open for comment from the membership.

#### **Missing Members**

Please contact Membership Chairperson, Jiabao Chen (Ph: 791-3945 or email jchen@kaihawaii.com), or any of the SEAOH



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

#### **Executive Committee:**

President: Alyssa "Sunshine" Smith

Vice Pres.: CH2M HILL
Chancy Hopper
ArdentMC

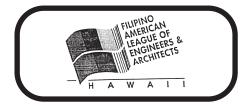
Secretary: Amy Weintraub
Women in Technology

Treasurer: Kristen Au
Belt Collins
Charter Sec. Rep.: Rena Chocl

ep.: Rena Chock HECO 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, May 7, 2014. Contact SEAOH President Ethan Okuna (945-0198 x103, eokuna@cshengineers.com) for more information.



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

#### Officers/BoDirectors for 2012-2014

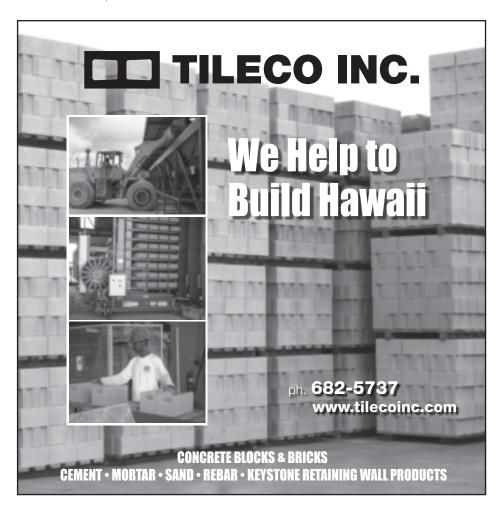
President: Jeoffrey S. Cudiamat, PE VP/Pres-Elect: Francisco T. Cruzata, AIA Secretary: Krizelle Jane C. Mabuti Treasurer: Riza Marie R. Gatdula Ass't Treas.: Maritez A. Marquez Auditor: Nicolo Orense, PE Bus. Manager: Lei Racel P. Jaramilla Press Rel. Off: John C. Ramos, PE Past President: Elvira Sutherland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

#### **APRIL BOARD MEETING:**

**FALEA GOLF TOURNAMENT** – Angie's update: The final confirmed date of our annual scholarship fundraiser is AUGUST 1, 2014, Friday at the Ewa Beach Golf Club. The \$300.00 check deposit will be made as soon

as possible. There will be a brand new car for the hole-in-one prize arranged through one of the local dealerships. We will have a minimum of 72 players, up to a maximum of 144. Angie is now trying to get a Title Sponsor, and is working on a couple of possible candidates for this important part of the golf tournament. The all-inclusive lunch is still being discussed, with several options to minimize the cost.

**BOWLING** - Gene discussed the "research" that was done as a result of the Board's decision to try this type of venue for a fundraiser during a previous meeting. This sport event allows for a much broader participation and hopefully a larger event for not only the A/E community but for family members as well. The most economical location determined is at Pali Lanes in Kailua. June openings are the 21st & 28th. Option 1: Use entire facility of 24 lanes, 4 persons minimum per lane for a total of 96. Cost per person is \$10 and includes ball, shoes, & games. Full deposit of \$960.00 collected at application signing, & outside food/drinks are allowed. Option 2: Use 12 lanes, 4 persons minimum per lane at \$10.00 per person, for a total of \$480.00 collected at application signing. No outside food or drinks. These are pre-ordered with Pali Lanes concession. Gene is looking at having 5-person teams at \$150.00 per team. With 24 teams, we can have a gross profit of \$2,640.00 just from the bowlers. To fund the prizes, Gold & Silver sponsors will be solicited. The plan is to provide cash prizes for highest game, highest series, "random" game score, & "random" series score. Also, there will be a separate "cash prize" tournament fee for those who are interested in competition. D'Plan will be discussed and finalized at our next meeting.



#### Outstanding Success: Inventive Engineer Poster Contest 2014

Hundreds of student entries affirmed the value of the inaugural Engineers Week poster contest initiated by Hawaii CyberSpace. Middle and High School students throughout the state were asked to create a visually pleasing presentation of an existing invention or an imagined one. Leonardo Da Vinci's style and skill was offered as guidance. Philip Blackman, the designer and sponsor of the contest, stated: "The ingredients of Science, Technology, Engineering, Mathematics plus Art, mixed together is essential to the multidisciplinary nature of engineering. The acronym for this mix is STEAM". Early in his own engineering career, Mr. Blackman was called to integrate engineering with the arts when at MIT artist Otto Piene asked him to create a computer program defining an arrangement yielding near uniform distribution of light bulbs for the sculpture "The Sun." This sculpture illuminates the House Chambers at the Hawaii State Capitol.

All the posters were on public display at Pearlridge Shopping Center 15-17 February as part of Engineers Week celebration. Hawaii CyberSpace was one of the exhibitors invited by the Hawaii Council of Engineering Societies to help promote interest in engineering by the public and students. Several pages of comments from mall goers checking out the Hawaii CyberSpace exhibit illustrated the public shared excitement in the work of the young students and their engineering ideas. The exhibit was more than just a static display.

Entries were invited from all islands and all school choice categories. Respective school choice representative organizations joined in an unprecedented coordinated invitation outreach and deserve a big Mahalo. Student enthusiasm was creatively mobilized by their teachers and the hands on nature of the challenge. One eleventh grade student wrote: "I am an art student working to be an architect. This contest provided a unique challenge combining science and art that is rarely practiced in school. I really enjoyed it." Another wrote: "I think that working on this project has taught me more about how STEM can relate to the real world. I think that working as an engineer would be a good experience because I could learn more about creating and fixing products.

Awards were given not as place awards, but designated with a title description of a salient feature that caught the eye of the judges and public. All the posters demonstrated commitment by students to do a good job, and all can be considered to share in these awards! Judging took place at The Hawaii State Foundation on Culture and the Arts.

The awards included:

**Careful Observation:** The Acoustic Guitar, Erin Hayashida, 8th grade;

**Convincing Imagination:** Flying Furnace, Gian Umermoto, 11th grade;

**Whow! I wish I thought of this:** Increasable Power Strip, Andrew Choi, 8th grade;

**Engineering Process of thinking:** Paddle Oscillation, Antoine Pages, 7th grade;

**Concept Marketing:** Changing Shoe Design Remote, Shanet Yang 6th grade;

**Take it Apart:** Ceiling Fan, Victoria Nguyen, 8th grade;

Succinct Title: Resistance, Renz Balbas, 10th grade;

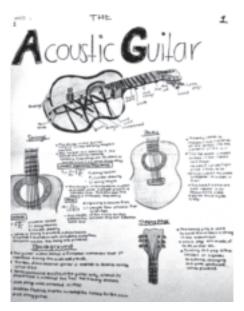
**Appealing Composition:** Color Scan'R, Hyeum Kim, 8th grade;

Dare to Dream: iWatch, Dean Carillo, 8th grade.

Special teacher honorarium go to Stevenson Middle School teachers **Denise Spencer** and **Trish Morgan** for their creative use of the contest in their unique STEM based elective classes

Hawaii CyberSpace is the primary sponsor and provides cash and certificate awards, plus in-classroom grant supported activities. Mr. Blackman has received commitments from two excellent east coast engineering schools, Massachusetts Institute of Technology and Worcester Polytechnic Institute, the Hawaii MIT Club, The Engineers and Architects of Hawaii, and others for additional gifts. The Grand Café at the State Art Museum has a display of some of the notable posters thru April.

Many posters and details archived about the contest may be discovered by going to www.HawaiiCyberSpace.com, and the Facebook page: www.Facebook.com/HawaiiCyberSpace2014. Think Tech Hawaii has posted an interview with Mr. Blackman that provides insight into the vision and structure of the contest. Please share your interest and questions to assure the next contest is even better!





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EAH's new meeting location is at the Mango Grill in the Topa Tower (Ewa tower on Fort Street ) in the Topa Financial Center (Old AMFAC Bldg). 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.

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#### **KNOW YOUR ASCE HISTORY**

by C.S. Papacostas

#### **Bicycle Club Growth**

In the March 2014 issue, I concluded my article with a prediction by the Hawaiian Gazette (HG) of July 18, 1893 that, given the fact that a ladies' bicycle club had been organized in Honolulu, the use of bicycles would show an upturn.

Around the same time, marketing their individual brands, several agents of bicycle manufacturers started membership clubs that offered those who joined special deals toward purchasing their bicycles. The Cleveland Bicycle Club, for example, announced that "it will cost you \$10 a month to be in line with other 'Cleveland' riders" and that a drawing was to be held on April 1, 1894. Later in 1894, the Rambler bicycle agency started its own club offering "a good wheel by paying \$2.50 a week," and a drawing every other week for one of its light-weight bicycles. Other brands with their own clubs were the Union, the Meteor, the Remington and the Reliance Clubs. Among other brands mentioned in the newspapers were Barnes Whiteflyer, Eldredge, Victor, Crawford, Elfine, Waverly, Monarch, World and Hawaii, the last one being locally made by the Hawaiian Cycle and Manufacturing Company!

The Pacific Wheelmen club that was established in 1891 continued to organize "drills" and other events. On December 9, 1892, they accompanied a "far-famed wheelman" named Maltby who rode his device only on its large wheel through town [Daily Bulletin, DB, 12/8/1892] for the enjoyment of large crowds [DB 12/10/1892]. Another notable event took place on August 19, 1894 that consisted of a 35-mile ride from the Opera House in downtown Honolulu to Moanalua and back to town, continuing to San Souci in Waikiki. "After having a dip in the brine and polishing six watermelons," they returned to town where they had a group photograph taken [DB 8/20/1984].

A new unaffiliated bicycle club called The Honolulu Cycle Race Meet Association was announced on Oct. 6, 1894 in the newspaper Hawaii Holomua [HH]. This club planned a meet at the Kapiolani Park horse racing track for Thanksgiving Day but postponed it to Christmas Day later in the year. This time as a member of the "Ramblers," Prince Kuhio participated and placed second in a half-mile open race [DB 12/16/1894].

Between the establishment of this association and its first meet, a milestone event occurred that spurred local interest in bicycling further: Two renowned racers, G. A. Griffiths and H. F. Terrill, arrived in Honolulu from San Francisco by the bark Albert in the morning of October 27, 1894. On the occasion of their arrival, the HG of Nov. 2, 1894 noted that "less than ten years ago a bicycle was a curiocity. Now the safety is a part of every day life."

#### ASCE History, from page 6

Welcomed by the Pacific Wheelmen, the visiting aces entered a 10-mile race from Palace Square (renamed to Union Square after the overthrow of the Kingdom) to Waikiki, around Kapiolani Park and back. Griffiths was clocked at 26 min and 35 sec., Terrill at 26:37, and the first local finisher, Jack Atkinson, at 27:57. Prince Kuhio was among those who were unable to finish the race because "his seat turned over near the park and so threw him out [HS 11/26/1894].1

Subsequently, "the interest aroused by the road race given while the San Francisco flyers were in town, has not by any means abated [HS 12/24/1894]." With it came the need for riding schools and repair shops, reports of mishaps and collisions with horse-drawn carriages and between bicycles, and incidents such as "shortly after noon today Detective Kaapa arrested Kahana, a native boy who stole Young Min's wheel [Evening Bulletin, EB 8/5/1898].

A report that 282 bicycles were imported during 1895 reinforced the fact that "the 'bike' is not a luxury but a necessity [HG 4/21/1896]." A concern that "the Japanese are making bicycles far cheaper than anyone else in the world" was expressed by the same source, "but then it does not suit us to buy Japanese bicycles."

The year 1896 saw the formation of more bicycle clubs.

The first of these was an "organization of progressive bicyclists" named The Honolulu Road Club boasting 25 members on Sept. 29, 1896. As I mentioned last month, this club called for the construction of good roads after the fashion of its U.S. mainland counterparts. On the next day, the intent of noted bicyclist George Angus to form a second club was announced [HS 9/30/1896] and by the end of the next month, a local racer named John Sylva, dubbed the Manoa Wonder, was reported as "organizing a cosmopolitan bicycle club" with special encouragement offered to "native riders [HS 10/26/1896]." In the meantime, the pre-existing Honolulu Amateur Athletic Club (HAAC) had opened its annual field day to bicycle racing by members of the various clubs after addressing internal disagreements between "athletic and bicycle club members [Hawaiian Star, HS, 1/21/1897].

At this point I realized that, besides the competition between manufacturers, the proliferation of bicycle clubs had to do with the social conditions prevailing in Hawai'i at that time. Thus, the Pacific Wheelmen I discussed last month were sympathetic to the Christian Temperance Movement, the members of the Honolulu Road Club were reportedly adherents of the Progressive Movement, women groups were connected to the Suffrage Movement, whereas the latest club admitted many native Hawaiians to its ranks. Japanese and Chinese residents were reported to own and use bicycles, but the first mention of a Japanese Bicycle Club or Association I discovered was much later [HS 12/31/1903] and no such reference to a Chinese club was found.

The racial distinctions of those times are also underlined by a statement from an apparently "prominent wheelman" expressed his frustration about a failure to raise funds to build a bicycle race track in town: "There are 2074 Americans in the city, the British number 1308, the Germans 578, the Portuguese 3833. Taking Europeans of all races, and Americans together there are in the city of Honolulu 8397 whites. Out of this number there surely is one thousand sport loving people who can afford and ought to pledge themselves" to contribute [HS 3/13/1897]!

The events leading to this statement will appear in the next installment.

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 956email 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.

#### Hawaii Resiliency Challenge, from page 1

their prototypes before building a higher resolution prototype. In a traditional challenge approach, teams would have spent little time building a diversified team, researching various analogous solutions and sharing their insights with everyone, and lastly exploring, prototyping and testing multiple ideas or critical elements of their ideas before judging. As a result of applying the Design Thinking process, teams were able to generate creative low-cost solutions to produce clean drinking water after a disaster.

And, the inaugural HRC winner is the "Water Warriors". Their team consisted of two mechanical engineers, an education student, a community college business student, and a full-time teacher.

[This article was written by Traci Rivera, a XE member and CEE student, and edited by Song K. Choi. If you have any questions, require additional information, or want to participate in future Hawaii Resiliency Challenges, please do not hesitate to contact Song K. Choi at schoi@hawaii.edu. Thank you.]



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