WIIIKI ENGINEER OF HAWAII

VOL. 50 NO. 1

SERVING 2000 ENGINEERS & LAND SURVEYORS

MARCH, 2014

2014 ACECH Engineering Excellence Competition

Grand Conceptor Award

Honoapi'ilani Highway Realignment, Phase 1A Future Keawe Street Extension to Lahainaluna Road

Firm: Wilson Okamoto Corporation





Left to Right: Beverly Ishii-Nakayama, Brian Lock (Wilson Okamoto), Jadine Urasaki (Deputy Director DOT), Alvin Takeshita (DOT Highways Administrator, Jonathan Corpuz (Hawaiian Dredging), Terrance S. Arashiro.

The Honoapi'ilani Highway Realignment, Phase 1A, Future Keawe Street Extension to Lahainaluna Road opened to the public in April 2013. The project features an extension of Keawe Street, 3/4-mile segment of bypass highway, long span Kahoma Bridge, a grade-separated Lahainaluna Road intersection with bridge, a substantial amount of earthwork, and retaining structures. The project is the first phase of the Lahaina Bypass Highway and meant to alleviate traffic congestion along the existing highway with Phase 1A specifically targeting traffic congestion associated with the Lahainaluna School Complex. Just before construction began, significant historical agricultural terraces were discovered in direct conflict with the highway, thereby halting design. The roadway was realigned to avoid the historical sites, requiring the re-design of Kahoma Bridge. This also meant the beginning of a new environmental assessment process, including

consultation with Native Hawaiians under Section 106 National Historic Preservation Act.

The re-design of Kahoma Bridge required the bridge be designed on a curve. This new configuration significantly magnified the complexity of this structure. Despite the challenges, the bridge was designed and constructed to span 360' across Kahoma Stream. Kahoma Bridge utilizes an inverted tier arch design, which places support beams below the road surface rather than above. This design was selected to minimize obstructions of ocean views for motorists and the Lahaina community. The unique support beam design eliminated the need for foundation pillars below the bridge which leaves the Kahoma Stream unobstructed. The project also features Lahainaluna Bridge, a grade separation bridge over the bypass highway. The bridge spans 130' without center piers providing unobstructed views and creating a "gateway" to West Maui. Construction of the bridge was completed at an approximate cost of \$80.4 million.

2014 ACECH Engineering Excellence Award Results

Each year the American Council of Engineering Companies of Hawaii (ACECH) recognizes the outstanding achievements of its member firms with the Engineering Excellence Awards. An esteemed panel of judges evaluated the entries based on the judging criteria of uniqueness and originality; technical value to the engineering profession; social and economic considerations; complexity; and meeting or exceeding owner/client needs. The judges assign projects to one of 3 levels with the top project earning the Grand Conceptor Award, followed by Engineering Excellence Awards and Honor Awards. This year's awards banquet was held on January 19, 2014 at

continued on page 7

2014 MATHCOUNTS Oahu Chapter Competition

It appears that this is the same story as previous years for Hawaii MATHCOUNTS® Oahu Chapter Competition. On February 1, 2014, Washington Middle School placed first as a team; however, individually, out of the ten top mathletes combining the Sprint and Target Rounds, Washington students placed first through sixth, and eighth. To top it all, Washington Middle School students Kent Kiyama and Anya Wu placed first and second, respectively, in the Countdown Round. This indeed was the best performance by Washington Middle School at the MATH-COUNTS® Oahu Chapter Competition.

The Competition was again hosted by Kamehameha Schools at their Middle School Campus with 26 schools participating including 15 public and 11 private schools. In all there were 225 mathletes trying to be top scorer. In the team placement, Washington was followed, in the following order, second place to tenth place, by Iolani School, Punahou School, Kawananakoa Middle School, Mililani Middle School, Wahiawa Middle School, Highland Intermediate School, Kaimuki Middle School, Niu Valley Middle School, and Hawaii Technology Academy. The Team Round determines team placement. A team is composed of four mathletes solving ten problems together in 20 minutes. Each team and coach has their own strategy to work most efficiently. The top six teams move on to the Hawaii State MATH-COUNTS® Competition on Saturday, March 8, at Kamehameha Schools Middle School



1st Place Washington Middle School team.

The student mathletes are placed according to their individual scores in the Sprint and Target Rounds. The Sprint Round has individual mathletes answering 30 difficult geometry, combinatorics, and algebra problems in 40 minutes. The Target Round has 8 problems in pairs of two with 6 minutes per pair to complete. The highest scoring mathlete was Kent Kiyama. He was followed in second to tenth place, in that order, by Kenny Thai of Washington, Neopold Ko of Washington, Jason Cho of Washington, Edward Requilman of Washington, Christine Ha of Washington, Justin Toyota of Wahiawa Middle School, Jay Park of Washington, Mitsuki Ota of Punahou School, and Jason Wang of Iolani School.

The Countdown Round at the Chapter Competition level is unofficial to show off the talents of the top scoring mathletes. It is a

continued on page 7



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WILIKI MAILING LIST

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



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

EAH 2013- 2014 Officers

LAII ZUIU- ZU	TH OHICCIS	
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	Andy Keane	531-3017

March Lunchtime Program

March 7 – AECOM, 'Emergency Earthquake Repairs Hawaii Belt Road' for the State Department of Transportation.

March 14 – The Limtiaco Consulting Group, 'Pearl City Force Main Repair' for the City & County of Honolulu.

March 21 – Wilson Okamoto Corp., 'Honoapiilani Highway Realignment' for the State Department of Transportation.

March 28 – Sam O. Hirota, 'Pavement Management System and Street Condition Survey' for the City & County of Honolulu.

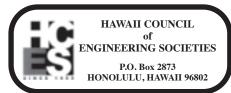
EAH's new meeting location is at the Mango Grill in the Topa Tower (Ewa tower on Fort Street) in the Topa Financial Center (Old AMFAC Bldg). Parking is available (enter from Nimitz). The WEB site has been updated to provide directions and a Map. If you have questions please call Sam Gillie (543-4739).

Meetings are held every Friday (except Holidays).

Meetings start at NOON and have ended PROMPTLY at 1:00 pm for 70 Years.

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!!



HOME PAGE: http://hces.us

2013-2014 OFFICERS

Chair: Dawn Szewczyk
Chair-elect: Dean Borges
Secretary: Stephanie Doan
Treasurer: Les Kempers
SOC Representative

Alternate AACE T. Taam **ACECH** K. Hayashida APWA Hirámatsu **ASCE** D. Szewczyk R. Babcock **ASHRAE** P. Scott ASME D. Kam J. Ahern CMAA C. Lum Paterson EAH **EWBH** W. Wong N. Waters **FALEA** S. Agraan G. Albano **HSPF** J. Dubois K. Kunimine IEEE Torigoe ITE W. Yamamoto SAME B. Zachmeier

Agapay

S. Dannaway

S.K. Choi

Thompson



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

SEAOH

UHM (assoc)

SFPE

SWF

Officers for 2013-2014

President Beverly Ishii-Nakayama 942-9100 Pres-Elect William Bow 941-8853 841-5064 Treasurer Robin Lim Corey Matsuoka 531-1308 Secretary Nat Director Sheryl Nojima 521-0306 Past Pres Terrance Arashiro 533-3646 Director Jeff Kalani 942-0001 Director Sachin Shah 450-2984 486-0787, ext. 105 Director Paul Morimoto

UPCOMING ACECH MEMBERSHIP MEETINGS

General Membership Meetings

Date: March 6, 2014 (Thursday)

Time: 11:45 am

Location: Honolulu Country Club Topics: Risk Management

Speakers: Karen Erger and Janice Marsters

Annual Meeting

Date: April 10, 2014 Time: 8:00 am

Location: Honolulu Country Club Topic: Annual Meeting

- ACEC Hawaii Business (committee reports, budget report/approval, BOD election/ installation
- National Political Perspective Steve Hall
- Hawaii's Political Perspective Dan Boylan ...followed by lunch (11:15am) and golf (12:30pm)

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: Who was the first per-

son to be named an ACECH (or Consulting Engineers Council of Hawaii) Life Member?

Answer to last month's question: In August 2003 Hawaii's Qualifications Based Selection (QBS) legislation was successfully passed into law after relentless effort by ACEC Hawaii's legislative committee.



CMAA Hawaii Chapter

http://hawchapter.cmaanet.org

mtp.//nawchapter.emaanet.org			
Officers			
President	Tim Bramsen	836-7787	
	president@cmaahawaii.or	g	
Vice Pres		562-308-8734	
	vicepresident@cmaahawaii.org		
Treasurer	Darla Guerrero	593-1116	
	treasurer@cmaahawaii.or	g	
Secretary	Dustin Timm	256-2020	
	secretary@cmaahawaii.or	g	
President	Mike Young	836-7787	
	admin@cmaahawaii.org		

News:

CMAA National recently rolled out a new, streamlined online application for the Certified Construction Manager (CCM). This new process provides for an easier and more time efficient method for completing the application and registering for the exam. If you are interested in the CCM Certification or participating in an application workshop, please contact our education committee or one of the chapter board members.

We're excited to announce Hawaii's newest CCM, Mr. Bill Thornton! Bill has been a loyal supporter and member of our chapter since incorporation. Great work Bill.

Also, we are proud to announce that Heald College

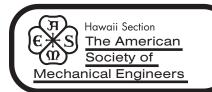
has been added as our latest student chapter in Hawaii.

Upcoming events for March include:

 March 19th, the Chapter will welcome back Brennon Morioka from HART to our March chapter luncheon meeting at Hale Ikena. Mr. Morioka will provide an update on the latest goings-on with the Honolulu Rail Transit Project. Our student outreach committee are organizing a Construction project site visit for CM and engineering students later in the month. Watch your CMAA chapter emails or our website, cmaahawaii.org for more information as the project and date are finalized.

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 March 15th



Website: http://sections.asme.org/hawaii

ASME-HI 2013-2014 Officers

Chairperson	Kory Ikeda	628-1231
	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
D . O	dangk001@hawaii.rr.com	E 40 4400
Past-Chair	Derek Sato	543-4108
	derek.sato@heco.com	
HCES Rep:	Derick Kam	
Alternate:	John Ahern	

NEXT ASME-HAWAII SECTION GENERAL/ EXECUTIVE COMMITTEE MEETING

Date: April 8, 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.

HILITES OF FEBRUARY 12 EXECUTIVE COMMITTEE MEETING

- Hawaii Section Officer Candidates for the 2014-2015 year are Chairman Derek Sato, Vice-Chair Derick Kam, Treasurer Kevin Dang, Secretary Kory Ikeda, Directors (2year) Ed Chang and James Grogan. The hold-over Directors are John Ahern and Raymond Liu. The annual ballot-survey will be sent out the first week of March.
- PE Refresher Study Session is being planned by Raymond Liu to help prepare anyone taking the Spring P.E. Exam. MEs interested can contact any Hawaii Section officer for details.
- The Francis Rhodes Montgomery Design Competition is being planned for the first Friday of May.
- Tour Planned: Kiewit Precast Yard for HART in March or April 2014. Details being worked out.

NEW MECHANICAL PROFESSIONAL ENGINEERS

Congratulations to Shannon Camero, P.E. Shannon passed the October 2014 Mechanical P.E. exam. He works for ASME member Norman Uchida, P.E., at Hawaii Electric Light Company, Ltd.

2014 ENGINEERING AWARDS

Congratulations to ASME members Stanford

B.C. Yuen, 2014 HCES Lifetime Achievement Award, and Kevin Shin, 2014 HCES Student Engineer of the Year. It has been awhile since ASME has received half of the awards presented annually at the Engineers Week Banquet.

Representing ASME at the banquet were Ed Chang, Past HCES Chair 1996; James Grogan, ASME Past Chair 2001-2003; Charles Kinoshita, HCES 1984 Young Engineer of the Year and ASME Past Chair 1982-1983; Robert Lee, HCES 2013 Lifetime Achievement Award ASME Past Chair 1985-1986; and Raymond Liu, ASME Past Chair 2003-2008. Stanford Yuen was HCES 1998 Engineer of the Year and ASME Past Chair 1979-1980.

ASME thanks the Student Section for assisting Derick Kam at the banquet registration table.

CHESTER A. KAITOKU, MECHANICAL ENGINEER

We are very sorry to report the passing of ASME-HI's Director Chester A. Kaitoku. Chester was our Chairman in 1989-1990, and again in 1998-2001. He held every ASME-HI office and remained an active Hawaii Section member providing the necessary guidance to ensure the section remained active in supporting its members. Whenever you needed advice on section matters, you could always count on Chester to provide sensible and reasonable guidance. Chester could be counted on to be judge for the Francis Rhodes Montgomery Design Competition at UHM, judge for our Outstanding Project/Design Award, and to volunteer in other ASME community outreaches such as manning booths, participating in ASME field trips, attending Section functions and dinners, and fundraising for the UHM Student Section of ASME.

Chester was a long time Hawaii MATH-COUNTS Steering Committee member and volunteering as a proctor after he resigned from the committee.

Chester belonged to the Honpa Hongwanji Mission of Wahiawa, and supported the traditional bon dancing as necessary to perpetuate Japanese culture. His opinions were valued by Hawaii Obon followers.

Chester passed away on December 31, 2013, at the age of 62. He retired from the City & County of Honolulu, Building Department after 26 years as a mechanical engineer. He will be missed by his friends, family, and ASME members.

MATHCOUNTS 2014 OAHU CHAPTER COMPETITION

Ed Chang, Oahu MATHCOUNTS Proctor and scorer volunteer recruiter thanks Kevin Araki for recruiting U.S. Army Corp of Engineers (USACE), and Tiffany Hamada for recruiting ASCE-YMF volunteers. Thanks to all the Hawaiian Electric Company volunteers. MATHCOUNTS also recognizes Louis Muzzarini,

competition moderator. Although he retired last year from the USACE, he chooses to keep on helping.

Society of American Military Engineers

Save the Date!

2014 Pacific Industry Forum and Scholarship Golf Tournament

Golf Tournament May 6, 2014 Kaneohe Klipper Golf Course

> Pacific Industry Forum May 7, 2014 Ala Moana Hotel

Visit www.samehonolulu.org for more info and sponsorship opportunities!



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

Fire Protection Engineers
SAVE THE DATE!
April 22-25, 2014
2014 AFAA Code Conference
and Annual Meeting
Hilton Waikoloa Village
Register www.afaa.org/2014



HCES officers and representatives met with Governor Abercrombie for signing of proclamation declaring Engineers Week in the State of Hawaii.



HCES officers and representatives with Mayor Caldwell for signing of proclamation declaring Engineers Week in Hawaii.



2013-2014 ASCE HAWAII SECTION OFFICERS Office Name Phone

Brian Enomoto, P.E. President: 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 791-3966 Secretary: Timothy Goshi, P.E.

email: tgoshi@kaihawaii.com Treasurer: Lara Karamatsu, P.E. 694-3213 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

MARCH DINNER MEETING

(Sponsor: Simpson Strong-tie)

Program: Design and Construction of High Rise Structures and TOD in Hawaii and Beyond: Engineering Success in a Global Economy

Speakers: By: Steven M. Baldridge, P.E.,

S.E., LEED AP President

BALDRIDGE & ASSOCIATES STRUCTURAL ENGINEERING, Inc.

March 6th, 2014 Date:

Location: Kapiolani Community College Ka'lkena Tamarind Room Time: 5:30 p.m. - Social Time

6:30 p.m. - Dinner 7:00 p.m. - Program 8:45 p.m. - Adjourn Multi-entree buffet

Menu:

Cost: \$30.00 for ASCE Hawaii Section

members

\$35.00 for Non-ASCE Hawaii Section members and Guests \$20.00 for UH Manoa Student

Chapter members

Please make checks payable to ASCE-Hawaii Section and mail to Lara Karamatsu, ASCE Hawaii Section Treasurer, Parsons Brinckerhoff, Pauahi Tower, 1003 Bishop Street, Suite 1000, Honolulu, Hawaii 96813. Please send reservations for the dinner meeting to Lara Karamatsu by Monday, March 3rd, 2014, by phone at 808-694-3213 or email at karamatsu@pbworld.com. No shows will be billed.

EXECUTIVE COMMITTEE MEETING

Last held: February 5th, 2014 Next meeting: March 5th, 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, audiotape. Please 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 taxdeductible 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 Ian Arakaki at 596-17790, 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
- Traffic Engineer I 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 Oceanit Laboratories, Inc
- Civil Engineer Coffman Engineers
- Staff Engineer Oahu Transit Services

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.



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, March 5, 6:00 p.m. at TJ's. If you are interested in attending to find out what the YMF is all about, contact YMF at vmf.hawaii@gmail.com.

MATHCOUNTS Oahu Chapter Competition

By Tiffany Hamada, Community Service Chairs On Saturday, February 1, 2014, ten ASCE YMF members volunteered at the MATH-COUNTS Oahu Chapter competition at Kamehameha School. This competition involved 6th - 8th grade students from schools all over Oahu. The math skills of these students were put to the test as they were challenged to solve a series of math problems within a given time limit. YMF members helped by tallying the results for three different rounds: Sprint, Target, and Team. Thank you to all the volunteers for coming out to help with this event. Ed Change for coordinating this event with the YMF.

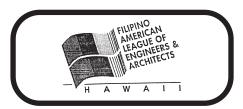
He'eia Fishpond

By David Lin & Tiffany Hamada, Community Service Chairs

On Saturday, February 8, 2014, fifteen YMF members participated in He'eia Fishpond's Community Workday. The non-profit organization dedicated to maintaining the ancient Hawaiian fishpond, Paepae o He'eia, gave us a tour of the fishpond and overview of its past, present, and future. The workday started in the early morning with volunteers dividing into groups to perform tasks to restore the fishpond walls. Some volunteers got into the water to help haul floating barges while others moved coral and filled buckets. After the hard work was done, lunch was provided by Paepae o He'eia. In all, it was a fun event and thank you to all the volunteers for coming out to help with this event and to Paepae o He'eia for coordinating this even with YMF.



Volunteers on wall of He'eia Fishpond



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 Riza Marie R. Gatdula Treasurer: Ass't Treas.: Maritez A. Marquez Nicolo Orense, PE Auditor: Bus. Manager: Press Rel. Off: Lei Racel P. Jaramilla John C. Ramos, PE Past President: HCES Rep: Elvira Sutherland Suzie S. Agraan Gene Albano Alternate:

JANUARY/FEBRUARY HIGHLIGHTS: 2014 FE REVIEW - By the time you read this, the Saturday afternoon FE Reviews will be in full swing. It started on February 15th with the first class on Math handled by Riza. Lei and other Board Members had been busy getting the sked & slots for our volunteer instructors finalized. The sessions are on Saturdays from 1-4:30PM until May 10 at Structural Hawaii's Offices in Pearl City. Lei also continues to line up volunteers to help set up the classroom chairs/tables, prepare coffee/refreshments, & clean-up on the designated dates.

HCES BANQUET - Suzie collected payments from those who will be attending the annual HCES Banquet on the 22nd at the Grand Ballroom of the Koolau Ballrooms.

MEMBERSHIP - Gene will send the membership list he has compiled to all Board Members for review and to see if anything needs to be updated.

SUMMER PICNIC/GENERAL ASSEMBLY -

This will be held in August, and will be discussed more in upcoming Board Meetings. Elvi will coordinate the picnic, and Jeoffrey, whose term of office ends this Fiscal Year, will be using this venue to handle the General Assembly, which will include nomination & election of officers for the next FALEA Administration.



Hawaii Section 2013-2014 OFFICERS

www.aacehawaii.org

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

PROGRAM FOR MARCH

Our next section meeting will feature "The Road Ahead, Mapping Construction Industry Trends for 2014 and Beyond" presented by Mr. Paul Brussow of Rider Levett Bucknall.

Date: Thursday, March 6, 3014
Time: 11:30 AM Sign-in/Network
12:00 Noon Presentation
Location: 1001 Bishop Street Suite 1600

(American Savings Bank Tower,

AECOM Office)

Affordable parking available at Alii

Place

Cost: \$15 includes box lunch RSVP: aacehawaiisection@gma

aacehawaiisection@gmail.com by

Tuesday, March 4, 2014

Members and guests are invited (early reservation recommended –

max. 25)

will talk about high rise structures and transit oriented developments, as a replacement for the postponed ACI 318-14 seminar. Ka'lkena Laua'e Restaurant (KCC), 5:30-7:00pm.

- March 27: SEAOH General Membership Meeting. Dave & Busters (roof deck), 5:30pm. More info to come soon.
- April 22: FRP Design Seminar by Scott Arnold (FYFE). Pagoda Hotel, 8:00am-12:00pm. More info to come soon.
- June 26: PT Design Seminar by the Post Tensioning Institute. Pagoda Hotel, 8:00am-5:00pm. More info to come soon.

SEAOH Installation Banquet:

Banquet was held on January 31st and a great time was had by all. Special thanks to Rod Haraga for coordinating the event, Wes Segawa for emceeing, and to all sponsors who made the event possible.

SEAOH Scholarship Opportunities:

Look out! SEAOH will be announcing scholarship opportunities for members and their families in coming months.

Prefab Roof Trusses for Big Island Projects:

Board members are continuing to work the issue. If you have any comments regarding this issue, please feel free to contact any member of the Board.

Missing Members:

Please contact Membership Chairperson, Jiabao Chen (Ph: 791-3945 or email *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, March 5, 2014. Contact SEAOH President Ethan Okuna (945-0198 x103, eokuna@cshengineers.com) for more information



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	

The annual Education Fund Golf Tournament will be held Friday, April 11, 2014, at the Ala Wai Golf Course. Those interested may contact Rouen Liu at 543-7245. Proceeds will sustain the Chapter's education fund which provides annual monetary awards at the Hawaii State Science and Engineering Fair and annual partial scholarships towards higher education tuition to eligible students who major in a public works-related field.



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

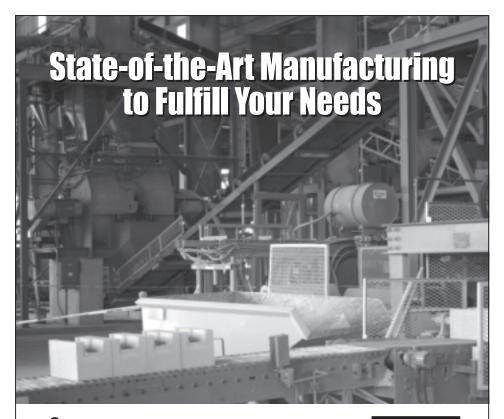
HIGHLIGHTS OF BOD MEETING

February 5, 2014

Committee Reports:

General Membership Meetings/Technical Seminars/Events:

- SEAOH Annual Convention 2014: Aulani discussed as possible venue; August as possible timeframe. Contact Brian Kung (488-7579, brian@mkellc.com) to offer suggestions or ideas.
- March 6: SEAOH/ASCE Joint Dinner Meeting will feature Steven Baldridge who



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KNOW YOUR ASCE HISTORY

by C.S. Papacostas

1890s Bicycle Craze

My February 2014 article contained two inadvertent errors: First, the Progress Building was (and still is) located at the corner of Fort and Beretania (not Hotel), and second, it is the Beretania street access door to the second floor that has been filled in.

Lets now move to our next topic.

In outlining the history of land transportation in the United States in my 1987 "Fundamentals of Transportation Engineering" book, I related the fact that "toward the end of the nineteenth century, a good-roads movement swept the country" and that "newly formed associations of recreational bicyclists who had begun to brave the countryside played a pivotal role in this movement." Involving emancipated women, this national good-roads movement was called a "bicycle craze."

Consistently, when the Honolulu Road Club, an organization of progressive bicyclists, issued its inaugural salutory in 1896, it declared, "there is no reason whatever why Hawaii should not have many more miles of good roads, and especially so throughout the island of Oahu... Remember, it is productive of less damage and more profit to drive over twenty miles of hard, smooth road such as are in parts of Honolulu than to drive over one mile of poor road such as many be found in many parts of Oahu [Hawaiian Star, HS, 9/30/1896].

But how did we get there?

As early as October 23, 1847, in a Polynesian newspaper adverisement, Everett & Co. offered for sale "the cargo of the ship 'Medora,' just received from Boston," that included "velocipedes." Whatever the term referred to in that context, it does not appear to have caught on. Almost twenty-two years later, on January 27, 1869, the Hawaiian Gazette (HG) told its readership that "Mr. C. P. Ward has received from San Francisco one of those vehicles known as a velocipede, whereon a person can, by the action of his feet alone, propel himself over the ground at a rapid rate." On June 12 of the same year, the Pacific Commercial Adevertiser (PCA) printed a long article titled "My Experience with a Bicycle." Extracted from the monthly "Maile Wreath," it described humorously the anonymous author's first experience with a velocipede featuring a large front and a smaller rear wheel. Describing it as an "unmanageable animal," the author recounted a few trivial falls and an out-of-control run off the road, down a steep hill and into a taro patch.

"When velocipedes were first introduced here, he has the credit of riding the first one perfectly in public... and nearly all Honolulu turned out to see him ride on King street," said The Independent [3/13/1902] in its 1902 obituary of notable royalist William Auld who was born in 1842 in Honolulu. If this event happened in 1869, Auld was 27 years old at the time of his feat

On March 5, 1870, the PCA announced that at a local circus show "the closing exhibition of the evening will be a Velocipede Race between a number of our Honolulu youngsters, who have acquired more or less skill in riding this new fashioned engine of locomotion.'

By the end of 1880, Brewer's on Fort Street listed among its wares both velocipedes and bicycles and in 1982, the Kapiolani Park horse racing track was scheduled to also feature "a bicycle, tricycle and foot race for 200 yards [Daily Bulletin, DB, 4/19/1882]."

The PCA of April 28, 1883 discussed the bicycle as a serious transportation mode saying "we have noticed but one fine bicycle in use in this city." Calling it an "iron horse," it encouraged the organizing of a club devoted to the "science" of bicycling because it was "a convenience and a healthful mode of exercise." It noted that "the cost of one would soon be saved in fares paid to cab drivers" and the level roads especially to Waikiki were presented as an added inducement to such ownership.

A few months later, the Daily Bulletin [DB, 12/15/1883] reprinted a New York World description of America's first exposure to "England's New Bicycle" as follows: "The steamer Persian Monarch brought over a bicycle ridden and manufactured on far different principles than any known to the American public. The wheels are uniform in size, the rider sitting between the wheels and balancing himself on the axle. It is propelled by the feet revolving on a crank, to either side of which is affixed a pulley connected with the hubs of the two wheels by steel driving bands." Moreover, "the machine can be stopped without dismounting." Called the "Otto" it was reportedly "brought over by A. P. Barlett of London."

On new year's day in 1885, a series of athletic sports held at in Makiki included a five mile bicycle race [DB 1/2/1885].

Three years after the PCA urged the initiation of a bicycle club, a paradoxical line appeared in the March 11, 1886 issue of the DB: "Somebody with a large head thinks a bicycle club would pay well in Honolulu." As if in response, the same paper explained on April 14, 1887, "the reason why there is no bicycle club in this Kingdom is that a portion of Queen street is about the only course in the realm where the two wheels safely run away with a

Considering the subsequent popularity of this "machine," one would assume that it had no detractors, but according to the DB of Dec. 19, 1890, "the bicycle has been slated in Newark as an instrument of evil" and a congregation gave a clergyman the ultimatum of either giving up riding or withdrawing from the church!

On November 29, 1892, the DB reported that "one of the prettiest spectacles ever seen on Honolulu's streets was the parade of the Pacific Wheelmen on the evening of Independence Day. About thirty bicycles illuminated with Chinese lanterns were on line... Her majesty presented the corps with a cheque for \$50 for the erection of a fence around their new track at Pearl City. The track is situated opposite Mr. John F. Colburn's place on ground as level as a billiard table." Less than two months hence, on January 17, 1893, Queen Lili`uokalani's govenment was overthrown.

The Pacific Wheelmen had adopted their constitution and by-laws on Sept. 29, 1891. Among its initial 25 members were Cupid K. Kalanianaole (Kuhio) and his brother David Kawananakoa [HG 10/06/1891]. The club sponsored bicycle races along King Street, some of which were reserved for its own members and others "free to all." The first "gold medal was won by Ruby Dexter, riding a Rudge safety" on April 30, 1892 and Prince Kuhio tied for fourth place [DB]. To raise funds for their track, the Wheelmen organized moonlight excursions and picnics at Remond Grove Pavilion, twelve miles west of Honolulu to which Dillingham's Oahu Railway & Land (OR&L) Co. provided regular service. Being a "temperate lot," the Wheelmen "dealt out temperance

drinks and sandwitches liberally for a small considertation" under "the mellow glow of electric lights [DB 3/6/1893]."

Bicycle use must have picked up the pace about that time for, in describing a football game won 26-6 by Punahou over Pacific on February 18, 1893, the HG [2/21/1893] pointed out that "quite a large party of young ladies, evidently belonging to a bicycle club" were in attendance. Later in the year, the same newspaper averred prophetically, "as there is already a lady's bicycle club organized here it is expected that the present importation [of bicycles] will increase the interest therein [HG, 7/18/1893].

On June 30, two Pacific Wheelmen received positive publicity for completing 80-90 miles around O'ahu and reporting that the road was good. They were President H.E. Walker and Secretary-Treasurer W.M. Bush 6/30/18931.

As we shall see next, the safety bicycle finally took Hawai'i by storm.

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.

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2014 ACECH Competition, from page 1

Ko'olau Golf Club. The awardees are listed

Grand Conceptor Award (see cover article)

Honoapi'ilani Highway Realignment, Phase 1A Future Keawe Street Extension to Lahainaluna

(Nominated by Wilson Okamoto Corporation, Owner/Rep State of Hawaii Department of Transportation)

Excellence Awards

Emergency Earthquake Repairs Hawaii Belt Road

(Nominated by AECOM, Owner/Rep State of Hawaii Department of Transportation) Pearl City Force Main Repair

(Nominated by The Limtiaco Consulting Group, Owner/Rep City and County of Honolulu)

Pavement Management System and Street Condition Survey

(Nominated by Sam O. Hirota, Inc., Owner/Rep City and County of Honolulu)

Honor Awards

Crater Rim Drive, Hawaii Volcanoes National Park, Island of Hawaii

(Nominated by SSFM International, Inc., Owner/Rep Hawaii Volcanoes National Park) Ane Keohokālole Highway Phase 1, Phase 1A and Palani Road Improvements

(Nominated by Belt Collins Hawaii LLC, Owner/Rep State of Hawaii Department of Transportation)

Kuhio Highway Slope Stabilization, Vicinity of Hanalei Bridge

(Nominated by AECOM, Owner/Rep State of Hawaii Department of Transportation)

ACECH Honors Janice Marsters with Kako'o Award

The American Council of Engineering Companies of Hawaii (ACECH) honored Janice Marsters, Ph.D., with the organization's firstever Kako'o Award at its 2014 Engineering Excellence Awards banquet on January 19, 2014. The Hawaiian word Kako'o, expresses the concept of providing support, assistance and mentorship. The Kako'o Award was created to recognize individuals who provide extraordinary service to ACECH and make outstanding contributions that improve the business landscape for Hawaii engineering firms.

"It is our great honor to bestow Janice Marsters with the first-ever Kako'o Award," said ACECh president Beverly Ishii-Nakayama. "Janice has tirelessly supported and assisted ACECH for over a decade, volunteering her



Left to Right: Terrance S. Arashiro, Janice Marsters, Beverly Ishii-Nakayama.

time to promote the mission of ACECH, advocating the interests of its members and also providing exemplary service to not only the organization, but the engineering industry as well."

Janice served as president of ACECH from 2004-2005. She also served as an ACEC National Director from 2005-2007, and currently chairs the national ACEC Risk Management Committee. Her advocacy efforts at the State legislature are especially commendable as they resulted in an overall improved business climate for Hawaii engineering firms.

Janice is a senior environmental engineer with Kennedy/Jenks Consultants and has more than 20 years of experience in environmental and engineering consulting for a wide variety of projects in Hawaii and the Pacific. Prior to joining Kennedy/Jenks, she was a principal of a Hawaii geotechnical/environmental consulting firm for 17 years, managing their Federal projects, including many sizable environmental projects under two award-winning contracts with NAVFAC Pacific. Janice, a LEED Accredited Professional, received both her Bachelor's degree in Civil Engineering and Master's degree in Civil Engineering (Geotechnical) from the Technical University of Nova Scotia, and earned a Ph.D. in Geology and Geophysics from the University of Hawaii.

2014 MATHCOUNTS Competition, from page 1

head-to-head single-elimination style competition with the 12 highest individual scorers from the Sprint and Target Rounds solving problems with speed, which you and I would find extremely difficult even when given all the time we want. Countdown Round spectators are usually amazed how quickly the problems are

For the first time competition emcee was ASME's Ronald Flegal, member of the MATH-COUNTS® Steering Committee. The Hawaii MATHCOUNTS® Coordinators are Barry Nakamoto and Nathan Yuen, both from Hawaiian Electric Company and HSPE. Competition moderator was Louis Muzzarini, retired U.S. Army Corp of Engineers. Muzzarini had U.S. Army Corp of Engineers doing the competition proctoring. Scoring was performed by volunteers from Hawaiian Electric Company, U.S. Army Corp of Engineers, ASCE YMF, ASME, and Hawaii educators.

The competition was honored with distinguished award presenters Earl Kim, Head of School, Kamehameha Schools Kapalama; Lynne Unemori, Vice President, Corporate Communications, Hawaiian Electric Company; Dewey Gottlieb, Hawaii DOE Educational Specialist for Mathematics, and Dr. Sheryl Nojima, National Director for the American Council of Engineering Companies of Hawaii.

The Hawaii Society of Professional Engineers or HSPE organizes and sponsors Hawaii MATHCOUNTS® with the help of the Steering Committee composed of engineers and educators. Hawaiian Electric Company is a major sponsor providing necessary funds and volunteers.



2nd Place Iolani School Team



Award Presenters, L-R: Earl Kim, Lynne Unemori, Dewey Gottlieb, and Sheryl

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