

wiki o hawaii



ENGINEER
OF HAWAII

VOL. 41 NO. 7

SERVING 2000 ENGINEERS & LAND SURVEYORS

SEPTEMBER, 2005

2004-2005 College of Engineering Highlights

In late 1999, when Dean Wai Fah Chen began his tenure as Dean of the College of Engineering he also began his vision to elevate the College to the level of the nation's top-tier engineering schools by strengthening our faculty, increasing our enrollment, and developing research centers in areas of the College's strengths. With the College heading in the direction he envisioned over the past five years, Dean Chen has decided to step down as dean when his successor is hired.

After stepping down, Dean Chen plans to stay at the College for a few more years as a research professor. He will be active in research activities, mentoring doctoral students, and working with some of the young faculty members in the Civil and Environmental Engineering Department.

Department News

Because the facilities at Holmes Hall aren't able to accommodate the growth of research in the College, the Civil and Environmental Engineering department has developed a business plan for the construction of an off-campus Civil Engineering Research Park (CERP), which will fill the department's need for a large-scale testing laboratory in structural, geotechnical, and transportation engineering.

Just like the Civil and Environmental Engineering Department did several years ago, the Electrical Engineering Department will change its department name to Electrical and Computer Engineering. The department will be accredited in computer engineering at the next Accreditation Board for Engineering and Technology (ABET) visit.

Over the past year, the Mechanical Engineering Department has focused its attention on developing a biomedical engineering research and teaching program. This fall, the Mechanical Engineering Department will be offering biomedical engineering classes and seminars for upper classmen and graduate students. The department is on track for the development of a biomedical engineering certificate, which will eventually develop into a new department in the future.

Last year, with funding from the National Science Foundation, the Hawaii Center for Advanced Communications (HCAC) established three state-of-the-art facilities, which consists of a wireless test bed, microwave network analysis lab, and an indoor antenna range. The HCAC is also developing a dis-

crete learning graduate program, which is targeted at students on neighbor islands.

Enrollment

Over the past several years, the College has seen tremendous enrollment growth in both the undergraduate and graduate levels. This past year all departments had moderate increases in enrollment.

Overall graduate enrollment at the College for the fall 2004 semester saw a 10 percent increase. The Mechanical Engineering Department had a 17 percent rise; the Electrical Engineering Department grew by 9 percent; and the Civil and Environmental Engineering Department saw an 8 percent increase.

At the undergraduate level, Electrical Engineering maintained its enrollment level while the Civil and Environmental Engineering Department had a 5 percent gain and the Mechanical Engineering Department saw a 7 percent increase.

Under the guidance of Assistant Dean Song K. Choi, the College hopes to increase quality undergraduate enrollment to about 1,000 students.

Research

During the 2004-2005 fiscal year, the College's faculty brought in \$8 million for research. Over the past three years, the faculty has received \$19 million in research grants and contracts. Under the guidance of Associate Dean Vassilis L. Syrmos, the goal of the College is to increase research funding to \$10 million a year.

Some of the highlights in research from the past year include, Civil and Environmental Engineering Assistant Professor Albert Kim's National Science Foundation CAREER award on aggregate-enhanced membrane filtration; Electrical Engineering Associate Professor Olga Boric-Lubecke's work on implementing MIMO techniques for remote sensing of physiological motion, which is funded by the National Science Foundation; Assistant Dean Song K. Choi's research on 3-D laser velocimetry for enhanced laboratory research on undersea vehicles, which is funded by the Department of Defense-Department of Navy; Civil and Environmental Engineering Assistant Professor Adrian Archilla's research on updating the state pavement management system and calibration of the 2002 design guide for

Hawaiian conditions for the Hawaii State Department of Transportation; and Electrical Engineering Associate Professor Wayne Shiroma's research on development of reconfigurable active antennas, which is funded by Oceanit Laboratories, Inc.

Students & Student Programs

For the third time in the past five years, one of our electrical engineering students was named the top electrical engineering student in the nation. Blaine Murakami, who graduated in May, was selected as the recipient of the 2005 Alton B. Zerby and Carl T. Koerner Outstanding Electrical and Computer Engineering Student Award. Kendall Ching, currently a graduate student at UH, received this honor in 2001 and Aaron Ohta, currently working on a doctorate at UC-Berkeley, received this award in 2003.

The College of Engineering High School Summer Internship just completed its fifth year. Twenty-six high school students were selected from 50 applicants to participate in the program. This was a thirty percent increase in selected interns from the previous summer. They all worked with faculty and student mentors in areas of transportation, robotics, composite materials, hydraulics, satellites, computational engineering, environmental engineering, corrosion, multiphase flow, and heart sensing experiments.

The Native Hawaiian Engineering Mentoring Program, established with a five-year grant from the National Science Foundation, is in its third year. It is part of the Pacific Alliance, a partnership among academic institutions, industry, government agencies and laboratories, and professional organizations to create empowerment and excitement over engineering and science among indigenous students. The alliance consists of the University of Hawaii, University of Washington, University of Alaska-Anchorage, and University of Alaska-Fairbanks. The program has over 60 Native Hawaiian engineering students and has helped the College's retention rate. Nearly 80 percent of the students in the program remain in the College.

Conclusion

As you can see, the past year at the College of Engineering has been an exciting one, and because of the growth the College has seen over the past few years, the future of the College looks to be exceptionally bright.



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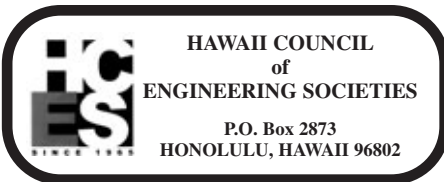
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Additions and/or corrections to the Wiliki mailing list should indicate the proper society, institution or association. Corrections to email addresses should be submitted to your society coordinator.

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HAWAII COUNCIL
of
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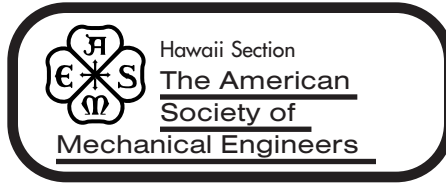
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HAWAII SECTION GENERAL MEETING

Date: Tuesday, September 13, 2005
Time: 5:30 p.m. to 6:30 p.m.
Place: Hawaiian Electric Company, Inc. Ward Avenue Cafeteria

Program: Continue planning section activities for the rest of the year. The Officers and Directors of ASME-HI look forward to seeing new and familiar faces. Lots of free pizza and pop are always provided. Please contact Ray Liu or Sam Gillie for directions and for more information.

U.S. R&D MOVING ABROAD

The following article is from ASME Capitol Update. Capitol Update is a publication of ASME to inform its members of public policy issues of concern to the engineering community.

It is no longer just manufacturing jobs that are being outsourced. Increasingly, U.S. com-

Engineers Wanted

Waialua High school is looking for team mentors who wish to transform culture, making science, math, engineering, and technology as cool for kids as sports are today. The engineer will help solve engineering design problems in an intense and competitive way.

Team Mentors work side-by-side with youth to build self-confidence, knowledge and life skills while motivating young people to pursue opportunities in science, technology and engineering. As team mentors, you will have a variety of backgrounds, but will share in the commitment to inspire young people, their schools and communities to have an appreciation of science and technology, and how mastering these can enrich the lives of all.

The program at Waialua HS is a life-changing, career-molding experience—and a lot of fun. Waialua enters the FIRSTS Robotic Challenge, the Botball competition and the HECO Electric Car Race. The engineer will assist in building, design, and coordination of these projects.

If interested contact Kevin Dang at Dangk001@hawaii.rr.com or 737-1708. For more information, check out www.usfirst.org and www.waialuarobotics.org. ASME is a proud sponsor of FIRSTS. **(See picture on page 8)**

panies are moving their research and design operations to locations in Asia and Central and Eastern Europe to take advantage of the larger labor pools and cheaper costs. In addition, sending R&D functions abroad can reduce the time to market by over 30 percent.

With more than one million scientists and 4,500 R&D centers, Russia is fast becoming a global center for electronic design. Motorola, Cisco, Hewlett-Packard and Intel all have workers there. Just last year, China graduated 325,000 engineers - five times the number of U.S. engineering graduates. And with over 811,000 scientists, China is outpacing Japan and closing in on the European Union and the U.S.

There appears to be a correlation between government support for R&D and the prevalence of R&D operations within a country. China is currently investing 1.5 percent of its GDP on R&D, a higher percentage than either the U.S. or Japan. While the total U.S. investment in R&D has increased by six percent this year, the majority of those monies are budgeted for military purposes. Domestic corporate investment in R&D has been flat for the past several years.

PLEASE NOTE: THE ARTICLES CONTAINED IN CAPITOL UPDATE ARE NOT POSITIONS OF ASME OR ANY OF ITS SUB-ENTITIES, UNLESS SPECIFICALLY NOTED AS SUCH. THIS PUBLICATION IS DESIGNED TO INFORM ASME MEMBERS ABOUT ISSUES OF CONCERN BEING DEBATED AND DISCUSSED IN THE HALLS OF CONGRESS, IN THE STATES, AND IN THE FEDERAL AGENCIES.

FUTURE TOURS AND EVENTS

- P.E. Study Group and P.E. Refresher Course: Chairman Ray Liu is coordinating a review course for the October exam with Dr. Charly Kinoshita and Dr. Stephen Masutani. The cost is \$150. There will be 3 instructors each covering 6 sessions. Contact Ray Liu for details.

(continued on page 8)

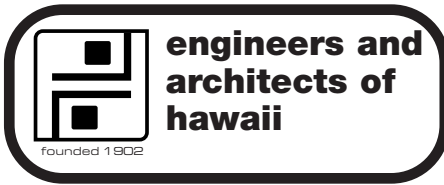
Volunteers Wanted

The **FIRST LEGO** League (FLL) inspires and celebrates science and technology to children aged 9 through 14, using real-world context and hands-on experimentation.

With the help of LEGO® MINDSTORMS™ Robotics Invention System™ technology, young participants can build a robot and compete in a friendly robotics event specially designed for their age group. Using LEGO bricks and other elements such as sensors, motors, and gears, teams gain hands-on experience in engineering and computer programming principles as they construct and program their unique robot inventions.

Judges, referees, and volunteers are needed to help at the 2005 FLL Competition. The FLL competition will be held at Punahou School on November 19, 2005. Judges will evaluate the research project. Referees will tabulate the match scores. Volunteers will assist in coordination of the event.

If interested contact Kevin Dang at Dangk001@hawaii.rr.com or 737-1708. For more information, check out www.usfirst.org and www.firstlegoleague.org. ASME is a proud sponsor of FLL.



po box 4353, honolulu, hawaii 96813

An association for Hawaii's Engineers and Architects
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EAH September Program:

September 9th, Speaker: TBA See EAH WEB page

September 16th, Speaker: TBA See EAH WEB page

September 23th, Speaker: TBA See EAH WEB page

September 30th, Speaker: TBA See EAH WEB page

WEB Site: <http://www.waikikiworm.com/>

Meetings held every Friday at YWCA room 205 on Richards Street downtown. Parking at Alii Place off Alakea Street for \$1.00 per hour. Meetings start at NOON and end promptly at 1:00 pm.

Members-\$7.50 Guests-\$8.50

Program schedule may be adjusted. Call Secretary to confirm speaker. Anyone wanting a weekly email meeting notice please send your email address to Sam Gillie at sgillie@hei.com.

Sad Note: Emeritus Member Kurt Max Hueffle died at his home on July 14. Kurt was a retired construction engineer. He was born in Eustis, Neb. He is survived by wife Virginia, son Kris, daughter Margaret Cagle, Brother M. Keene and three grandchildren. Services were Wednesday at Central Union Church, Atherton Chapel. Kurt joined EAH in 1974. Kurt hadn't attended meetings recently, but he was known to always try to attend meetings regularly, arriving late and having to leave early. He also would always call when his annual EAH dues notice was late. Kurt was 87.

Meeting Notes for July 15th, 2005

Speaker: Andy Keith, Senior Environmental Scientist, HECO

Subject: "Current Status of Net Metered Photovoltaic ("PV") Systems"

Andy gave us an excellent update on his current state-of-the-art PV system on his home. Andy's PV system is the second largest in Hawaii at about 4.5 kW, however, not to be outdone Andy has plans to expand his system later this year. One of the problems is that because of the demand for PV panels in the World today, principally from Germany, panels are difficult to get. Andy explained both battery systems and non battery system. Andy's talk will be posted on the EAH web site.

Meeting Notes for July 22th, 2005

Speaker: Alan Lloyd, EAH Emeritus Member, Retired HECO Executive Engineer

Subject: "100 Year Old Hawaiian Postcards"

Alan presented an assortment of old Hawaiian Post Cards that he was given as a token of appreciation for his talks presented as a guest lecturer on the Serenade of the Sea Cruise liner. The Post Cards mostly dated from the turn of the century. Most had been color enhanced from black and white photos. As a second part of Alan's talk, he presented his research on the Japanese Midget Submarines that were used during the attack on Pearl Harbor on December 7th, 1941.

Meeting Notes for July 29th, 2005

Speaker: Mark Anderson, Deputy Director, DBEDT

Subject: "2005 Highlights from DBEDT"

Mark presented the overall organization of DBEDT's various departments as well as other attached agencies, which have their own board of directors and operate autonomously from DBEDT, such as the Hawaii Tourism Authority, which has the lion's share of DBEDT's budget. Mark explained how in school he studied that the economy is very complex and mostly controlled by strong market forces. However DBEDT's goal is to try to direct Hawaii's economy in ways that will benefit Hawaii in the future

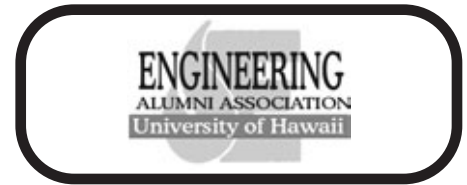
Meeting Notes for August 5th, 2005

Speaker: Cliff Morden, Director, Lyon Arboretum

Subject: "The Lyon Arboretum"

Cliff talked about the history of the Lyon Arboretum. It started in 1929 as part of a soil conservation effort. There are about 193.5 acres. It has three main zones, Public zone, Research zone and Restoration zone. There are 10 Valleys with collections and over 60 garden sections. They have successfully grown about 300 Hawaiian plant species, (136 are federally listed as endangered or threatened). Currently, there are more than 12,149 plants in inventory, consisting of 260 native plant species

Plants produced used for conservation, research, education, botanical and display garden and forestry projects. There are three education focal groups Pre K-12, University, and adult education. There are volunteer programs for individuals, clubs and groups. Volunteers can work on the grounds, offices, greenhouse, laboratories, and education. The Arboretum had to temporarily close in 2004 because of violations of use within the Conservation District Lands, but reopen in 2005. There are structural problems with old cottages. Listen to Cliff's talk at the EAH web site and see his presentation.



Po Box 12204 Honolulu, HI 96828

Website: www.eaauh.org

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2005 EAAUH Golf Tournament:

The tournament was held at Pearl Country Club on July 22.

Congratulations to the winners of this year's event:

Overall Low Net: Glenn Saito

Flight Low Net:

Flight A – Derek Mukai

Flight B – Michael Magaoay

Flight C – Daniel Kanekuni

Flight D – Ian Arakaki


Flight S – George Shintani

Class Winner:

Class of 1990 – Total Net Score 183

(Tony Gaston, Holly Takara, Teri Watanabe)

Thank you again to all the donors, sponsors and volunteers for making the event possible!




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- ✦ 23-36 years of age
- ✦ Drug policy/drug testing mandatory
- ✦ Entry-level salary (GS-10) is \$46,186 Academy training; \$57,646 - \$62,571 upon graduation, including locality/availability pay



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AMERICA'S FINEST





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President	Paulette Chang
Vice President	Scott Jennings
Secretary	Florence Ching
Treasurer	Laura Smolinski
Past President	Jamie Hikiji

SEPTEMBER LUNCHEON MEETING

Program: Department of Design and Construction's Capital Improvement Program.

Please join our speaker, Wayne Hashiro, P.E., who will speak about the above topic. This is a joint luncheon with the American Water Works Association - Hawaii Section and the Hawaii Water Environment Association.

Date:	Wednesday, September 21, 2005 (Please note day change)
Location:	Willows Restaurant 901 Hausten Street, Honolulu, HI
Time:	11:30 a.m. - Social Time Dinner and Program 1:00 p.m. - Adjourn
Menu:	Multi-entree buffet
Cost:	\$18.00 includes lunch and parking validation

Please make checks payable to AMERICAN WATER WORKS ASSOCIATION and mail to AWWA Hawaii Section, Fukunaga & Associates, Inc., 1388 Kapiolani Boulevard, 2nd Floor, Honolulu, Hawaii 96814 Attention: Jon Muraoka, by Thursday, September 15, 2005. Reservations for the luncheon meeting to Jon Muraoka by phone at 944-1821, fax at 946-9339 or email at office@fainc.org.

EXECUTIVE COMMITTEE MEETING

September 8, 2005

ELECTION OF THE FY 2005 ASCE HAWAII SECTION OFFICERS

The following slate of officers will be on this year's ballot for new officers. Walter Billingsley, P.E., who was elected to the position of President-Elect in August 2004, will lead the Hawaii Section as President. Nominees for the remaining Executive Committee positions are as follows:

President-Elect:	Lori Fong, P.E.
Vice-President:	Phillip Ooi, Ph.D., P.E.
Secretary:	Ron Iwamoto, P.E.
Treasurer:	Michael Hunneman, P.E.
Younger Member Forum President:	Scott Jennings, P.E.

The current officers are nominated to continue in succeeding positions: Lori Fong, Phillip Ooi and Ron Iwamoto. A brief biographical sketch for Michael Hunneman and Scott Jennings is provided below.

Mike Hunnemann received a BSCE from

North Carolina State University in 1981, and a MSCE with an emphasis in Structural Engineering from Villanova University in 1987. He is licensed in 7 states (HI, PA, NY, NJ, AR, TN, DE). He is Vice President of KAI Hawaii, Inc., where he oversees the Infrastructure Department, which focuses primarily on the design and inspection of bridges and anything infrastructure related. He is an active member of ASCE, APWA (Vice President), SEA0H, and SAME.

Scott Jennings graduated from Drexel University with a BSCE and the University of Texas at Austin with a MSCE. Scott has over 15 years of experience in the construction industry, spending the last seven years at RCI Construction Group, which was recently acquired by Parsons Construction Group earlier this year. Scott is currently the Senior Vice President of the Pacific Division of Parsons Construction Group, where he is responsible for business development and construction work in the Pacific Rim. Scott's recent projects include managing the construction of the Sand Island Wastewater Treatment Plant (WWTP) Headworks and Sand Island WWTP UV/Effluent Pump Station. Scott has been actively involved in the Hawaii Section YMF where in 2002, he served as the YMF Job Shadowing Chair, in 2003 the YMF Secretary and in 2004 the YMF Vice President.

The election of the FY 2006 ASCE Hawaii Section Officers will take place at the September Luncheon Meeting.

ASCE HAWAII SECTION STUDENT SCHOLARSHIPS

Please help us increase our scholarship endowment so that we can recognize those 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 Westley Chun at 440-0269, or Westley.Chun@ch2m.com.

ASCE JOB LISTINGS

The following employers have openings they would like to fill:

Austin Tsutsumi & Associates, Inc. (Civil Engineer - Honolulu and Wailuku, Land Surveyor - Honolulu)

Bills Engineering Inc. (CADD Technician)
Brown and Caldwell (Senior Drafter -

(continued on page 8)



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Past Pres	Jamie Hikiji Jamie.Hikiji@m-e.aecom.com	521-3051

Next YMF General Meeting

The next two YMF general meetings are scheduled for Tuesday, September 6, 6:00 p.m., at Hard Rock Café, 955-7386; and Tuesday, October 4, 6:00 p.m., at Sam Snead's Tavern, which is located at the Navy-Marine Golf Course Club House at 943 Valkenburgh, 421-7267. If you are interested in attending to find out what the YMF is all about and how much fun we have, please call Paulette Ujimori 257-6920 ext. 231.

ALVAH SCOTT ELEMENTARY SCHOOL PARKING LOT STRIPING

By Aaron Kam, Hawaii Section YMF Community Activities Chair

On Saturday, August 6th, 11 members of ASCE's YMF organization came out to help repaint the parking lot at Alvah Scott Elementary in Aiea. Volunteers helped repaint parking stalls and traffic lines in this half day event that culminated in a pizza lunch. Thanks to all for coming out and providing their sweat and painting skills to a very worth cause.

Committee Chairs

The ASCE Hawaii Section YMF is looking for committee chairs for next year to head up our social events, field trip/technical presentations and awards committee. For more information, please contact Ms. Paulette Ujimori at 257-6920 ext 231.

ASCE Job Classified

Looking for work? Visit the ASCE's job listing page at <http://www.ascehawaii.org/jobs/jobsinfo.html>.



2004

Concrete Achievement Awards

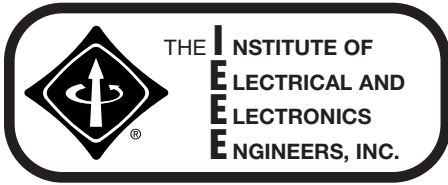


NEW SINGLE-FAMILY RESIDENCE AWARD

COLLINS RESIDENCE

OWNER ERNEST AND SUSAN COLLINS
ARCHITECT HAMLET CHARLES BENNETT, ARCHITECT
STRUCTURAL ENGINEER RAY W. KEUNING, STRUCTURAL ENGINEER
GENERAL CONTRACTOR QUEEN CONSTRUCTION & MASONRY, INC.

The entry to the residence is greatly enhanced by 10-foot to 16-foot concrete columns supporting a hip roof structure of Monier roof tile. A 300-year old Chinese gate interface with a mahogany surround and lava rock wall, blending Asian and Hawaiian influences with natural earth tones. The massive suspended concrete deck created a large planter deck, complete with lawn, shrubs and trees. Cantilevered concrete planters surround the home. Numerous concrete columns support roof structures at the front, side and rear. The concrete and masonry concrete structure created extremely quiet rooms with impressive architectural details unifying wood, glass, stone and concrete finishes.



IEEE Hawaii Section

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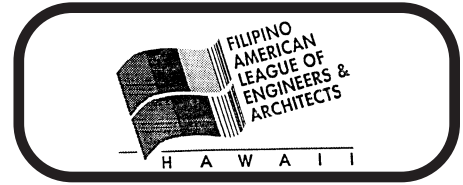


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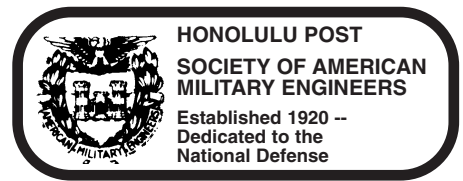
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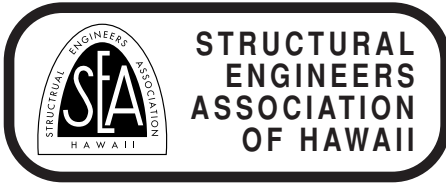
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HIGHLIGHTS OF BOD MEETING August 03, 2005

Committee Reports:

Membership Committee: Aaron Kam, Naval Facility Engineering Command, Pacific Division, has submitted an application for membership as an Associate Member. Comments on Mr. Kam's application are being solicited from the general membership and shall be submitted to the Board of Director's before September 30, 2005.

2005 SEAHO Convention Committee: Registration information for the October 20 – 22, 2005 Cement and Concrete Products Industry of Hawaii (CCPI) & SEAHO Joint Annual Convention, Turtle Bay Resort, Oahu's North Shore, Hawaii, has been distributed and is available on the SEAHO website (www.seaoh.org). The early registration deadline is August 15, 2005. There are currently twelve (12) Exhibitors registered for the event.

Program Committee: The "Masonry Construction Practices Forum" has been rescheduled to December 03, 2005 (tentative date).

Ad-Hoc Committee to Review Proposed Amendments to the City & County of Honolulu Building Code and 2003 International Building Code (IBC): A proposed amendment to Chapter 21 Masonry of the 2003 IBC that would provide an exception to the IBC requirement to provide cleanouts in the bottom course of stacked masonry units was discussed however, due to questions over the applicability of the proposed amendment to the strength design of masonry, recommendation of the proposed amendment was tabled and the issue will be submitted to the City & County of Honolulu Building Code ad-hoc committee for further review.

The ad-hoc committee to review all proposed amendments to the City & County of Honolulu Building Code and the 2003 IBC has been established. The ad-hoc committee is formed of the following persons – Mr. Steven Baldrige, Mr. Dean Doi, Mr. Albert Fobel, Mr. Bennett Fung, Mr. Steven Heywood, Ms. Beverly Ishii-Nakayama, Mr. Ibbotson Kellett, Mr. Marvin Mestanza, Mr. Glenn Miyasato, Mr.

Dwight Okawa, and Mr. Roy Yamashiro. Dr. Arthur Chiu will be serving as a consultant to the committee. The first meeting of the committee is tentatively scheduled for late August 2005.

Hawaii State Hurricane Advisory Committee (HSHAC): SEAHO would like to thank the following volunteers who assisted with the HSHAC booths at the Building Industry Association of Hawaii's (BIA-Hawaii) "Remodel It Right" Expo on July 8-10, 2005 – Ms. Beverly Ishii-Nakayama, Mr. Michael Kasamoto, Mr. Wayne Kawano, Mr. Ibbotson Kellett, Ms. Susan Kuniyoshi, and Mr. Tom Tanimura.

It was reported that several visitors to the HSHAC booths expressed interest and / or inquired about obtaining copies of the prescriptive recommendations for wind loads for residential construction publication previously compiled and published by SEAHO. A recommendation to form a new SEAHO committee to update the publication was discussed, however the issue was tabled for future discussion.

New Business:

Hawaii Council of Engineering Societies (HCES): It was reported that HCES has discussed repealing the eligibility requirement to be nominated for the HCES Lifetime Achievement Award that currently requires "...the award only be made to a person who has been retired for not more than four years...". After discussion by the BOD, it was decided that SEAHO would support repealing the eligibility requirement.

It was reported that HCES will be indefinitely tabling further discussions of implementing a uniform Continuing Education Unit program for all engineering disciplines in the State, similar to that adopted by the American Institute of Architects.

American Institute of Architects (AIA) Honolulu: SEAHO would like to congratulate Mr. Gary Chock, Martin & Chock, Inc., for the "Certificate of Appreciation" he recently received from the AIA Honolulu in recognition of his hard work and effort on the Building Codes Committee.

2005 Calendar of Events:

September 2005 Qrtly Meeting: Light gauge steel plant tour (tentative)

October 20-22, 2005 Convention: SEAHO / CCPI Joint Convention

October 27-29, 2005 Convention: NCSEA Annual Convention, Kansas City, MO

November 22, 2005 Seminar: "Seismic Design of Concrete Structures" (Speaker: Mr. S. K. Ghosh)

December 03, 2005 Forum: "Masonry Construction Practices Forum"

January 10, 2006 Seminar: AISC "Steel Design After College"



HAWAII CHAPTER

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General Membership Update

The welcome reception for the LGSEA Chapter members into the Steel Framing Alliance (SFA) was held on August 24, 2005 at
(continued on page 9)



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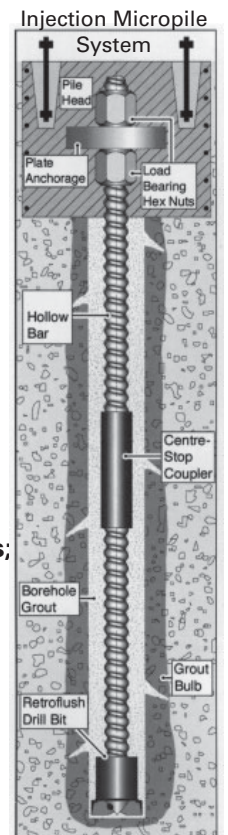
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KNOW YOUR ASCE HISTORY

by C.S. Papacostas

READERS WRITE

On a regular basis, readers of this column drop me a note or an e-mail message about something or other that piqued their curiosity. Here are three recent examples:

Ned Murphy, a Consulting Geochemist with the firm of Central Planet Repair, LLC, wrote in part:

"I just finished reading your history of cement in Hawaii which I found while researching the history of the Kaiser plant in Nanakuli. I'm conducting this work as part of a Phase I Environmental Site Assessment for the plant. Several questions came to mind while reading your article. First, was the Waianae plant operated during 1945 and 1946 on the same site? If not out of curiosity is the location known? Is the use of the site prior to sale to Kaiser known?"

In response, I informed him that, according to my notes, the 6/10/59 issue of the Honolulu Advertiser included a map of the area at the time. I also suggested that municipal records that dealt with Kaiser's and earlier rezoning requests may prove useful to his quest.

Incidentally, U.S. Environmental Protection Agency's Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) shows the old Cyprus Hawaiian Cement site in Ewa as a potentially hazardous waste site as well.

Scott Radway, Associate Editor of the Hawaii Business Magazine asked:

"I was wondering if you could help me with a historical page we run in the magazine. I was going to note 25 years ago that the two cement companies converted to coal power and would like to clarify a couple things. I would also like to report what happened to the companies."

In a congenial follow-up phone conversation, we discussed and clarified these and other issues and I pointed out the ASCE-Hawaii web site where he could find all of the related articles I wrote on the subject.

Electrical Engineer Keith Henson wrote in part:

"Aloha from freezing Canada. When I was a little kid I lived in Hawaii on Ft. Shafter between 1946 and 1948, leaving the Islands when I was 5 and never going back. My father, then Captain Howard W. Henson (and eventually Lt. Col. when he retired) worked at the "Radio Tunnel" which I remember as visible on a hillside from the back yard of our little duplex that backed onto some tennis courts. It was an impressive place to a 5 year old kid. I don't know how far back it went into the hill or exactly what it was for, but I do remember the massive air conditioning equipment you had to walk by in the tunnel mouth. Does anyone on this list know anything about this installation, it's real name or exactly where it was?"

Based on a quick search of the records, I discovered a 2004 article by John D. Bennett entitled "Signal Company, Aircraft Warning, Hawaii [SCAWH] Organizational History," that was published by Radomes, Inc., The Air Defense Radar Veterans' Association. The article says that "SCAWH was organized at Schofield Barracks, Territory of Hawaii (T.H.) on August 14, 1940 per Paragraph 2, General Order Number 24, Headquarters Hawaiian Department (HHD)."

On December 7, 1941, the system included six mobile radar sites on O'ahu that had been

connected via telephone wire to a temporary Information Center at Fort Shafter. The famous Opana Station near Kahuku where Privates Joseph P. Lockard and George E. Elliott, Jr. detected the approaching first wave of the Japanese attack airplanes was one of the six sites. The warning was relayed to Private Joseph P. McDonald, a switchboard operator at Fort Shafter, but unfortunately, it was dismissed by Lt. Kermit Tyler who was the only officer at the Information Center.

Bennett goes on to explain that "on February 1, 1942 the Information Center was moved to a newly built bomb-proof tunnel at Fort Shafter (codename Lizard)." I suggested to Keith Henson that this was possibly, but not definitely, the tunnel he remembered as a child.

In 1991, by the way, the Opana Station was placed on the National Register of Historic Places. In addition, on February 23, 2000, the Institute of Electrical and Electronic Engineers (IEEE) designated it as an Electrical Engineering Historical Milestone. A commemorative plaque was unveiled on the grounds of the Turtle Bay Hilton because a Regional Relay Facility for Diplomatic Communications has placed the vicinity of the Opana Station off limits to the public.

Interestingly, the initial nomination, prepared by Hawaii IEEE members Fred Kobashikawa and George Curtis was rejected on the basis that the Opana radar "did not work." History has proven otherwise!

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 msp@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>.

ASME, from page 2

- Tour and Hawaii Section meeting with Big Island member in Kona for November 2005. Possible sites to visit include cold water bottling plant, HELCO Keahole Power Plant, and the Hamakua Partners Power Plant. Other suggestions will be appreciated.



Wailua High School FIRST Team sponsored by ASME.

ASCE, from page 4

Honolulu, Project Manager – Maui)

CH2MHILL (Entry-level Water Engineer - Honolulu)

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Towill, Shigeoka & Associates, Inc. (Licensed Professional Land Surveyor, Computer/Draftsperson (CAD), experienced Party Chiefs and Rodpersons for Oahu and Kona)

Warren S. Unemori Engineering (Project Engineer and Civil Engineer - Wailuku)

For more information on these job listings, please visit the ASCE Hawaii Section website at <http://www.ascehawaii.org/jobs/jobs.html>.

MEMBERSHIP DRIVE

ASCE counts on our members to help us grow every year by actively participating in the Member-Get-A-Member Drive. The drive is now year-round and offers great new prizes, such as cash rewards, gift certificates, digital cameras, personal digital assistants, LCD TVs and more. For most prizes, all you have to do to be eligible to win is refer a colleague. This is a great time to help out your colleagues while also helping ASCE find new members. Take a minute to think about the people in your professional life who could benefit from membership. Visit www.ASCEDrive.org to refer them and you could be a winner in the next drawing! Please contact our membership chair, Lori Nishida, at 533-3646 or lnishida@atahawaii.com for further information.

SIGN-UP FOR THE ASCE HAWAII SECTION'S WEBMAIL LIST

If you would like to receive e-mail notices of upcoming meetings or activities please sign-up for the ASCE Hawaii Section's webmail list at <http://www.ascehawaii.org/emailform.html>. You may also help the ASCE Hawaii Section reduce operating costs by receiving your monthly issue of the Wiliki via e-mail, please contact Joanna Seto at 586-4329 or jseto@ascehawaii.org.



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EXECUTIVE COMMITTEE MEETING

August 4, 2005

Old Business

- A. Upcoming Seminars
 1. Introduction to Structural Fire Protection – August 5, 2005
 2. Human Behavior In Fire: Scheduling for this seminar is on hold until SFPE HI can schedule the 2006 Life Safety Code seminar.
- B. The PE Exam Study Group will hold its first technical meeting on August 9, 2005. Four members have signed up to participate so far.

New Business

- A. Sam Dannaway informed the committee that the building department appreciated the depth and quality of the comments and revisions to the proposed amendments to the 2003 International Building Code and 2003 International Residential Code. SFPE HI has started analyzing and evaluating the next round of revised proposed amendments.
- B. The PacRim Safety and Health Conference is scheduled for May 12-14, 2006. SFPE HI is participating in the conference as part of the Moderator Committee. The next Moderator Committee meeting is scheduled for August 17, 2005.
- C. SFPE HI is looking to schedule the 2006 Life Safety Code Seminar for the 1st quarter of 2006.
- D. Committee members suggested the follow-

ing topics for future seminars.

1. Sway bracing. This topic was brought up as part of a discussion of NFPA 13 (2002) TIA 02-1 which revised the seismic bracing criteria.
2. Fire alarm speakers: This topic was brought up because Notifier was upstairs giving a presentation on their directional speaker devices.
- E. Mel Harano informed the committee that SFPE HI received the Silver Chapter Excellence Award. The award will be officially presented at the 2005 SFPE Annual Meeting on October 17-21, 2005 in San Diego CA.



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- Assistant Dean Song K. Choi
- CEE Chair H. Ronald Riggs
- EE Interim Chair Galan Sasaki
- ME Chair Bruce Liebert
- HCAC Director Magdy Iskander

LGSEA, from page 7

the Willows Restaurant. Sponsored by SFA, the members enjoyed delicious pupus and a great seminar by Don Allen, P.E. on "Details for Steel Framing: Right and Wrong." In this seminar, Mr. Allen, a repeat guest lecturer to local LGSEA members, described steel framing details, good and bad, that he has encountered in his vast knowledge of CFS construction.

Please make plans for MetalCon 2005, at the Stephens Convention Center in Chicago October 4-6. On October 3, Dr. Roger Laboube and Mr. Allen will be giving a 7 hour course on Design of Wall Systems Using Cold-Formed Steel. Attendees will receive an advanced copy of the AISI Wall Stud Standard.

Returning to local chapter news, the program committee is striving to wrap the year up with a bang. After the Allen seminar, the committee is preparing programs which include a dinner seminar on Green Building using CFS presented by a nationally recognized expert on steel recycling, a planned job site visit, and a final report by Dr. Ian Robertson of University of Hawaii Department of Civil Engineering on his load bearing top plate research. Look for future announcements on dates and locations to come!

2005 Pacific Coast Electrical Association Conference Announcement

The 2005 Pacific Coast Electrical Association Hawaii Conference & Expo will be held September 29 – October 1, 2005, at the Hilton Waikoloa Village. Themed "Securing Our Energy Future," the three-day conference will feature more than 40 exhibits and 20 workshops addressing renewable energy sources, energy efficiency, facility improvements and demand load control, among other issues affecting the industry. Keynote speakers for this year's event are Rear Admiral Michael Vitale, Senior Commander for the Navy Region Hawaii and Naval Surface Group, Middle Pacific and Greg Kats from Capital E, a national firm providing strategic environmental and energy technology consulting. Saturday's breakfast special guest speaker will feature Jim Reddekopp, owner of the Hawaiian Vanilla Company on the Big Island. Registration cost is \$300.



PCEA brings together leaders from the state's electric utilities, government, facility/operations managers, professional design consultants, commercial and residential real estate development and related industries to share and address industry concerns and explore technical and economic trends.

PCEA Hawaii Conference is sponsored by Hawaiian Electric Company, Hawaii Electric Light Company, Maui Electric Company, and is co-sponsored by the State of Hawaii's Department of Business, Economic Development and Tourism, Rebuild America, U.S. Department of Energy, The Gas Company, Bank of Hawaii, and supported by Energy Industries. For more information, call 543-4751 or visit <http://pcea.heco.com>.

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