

wiki to hawaii



ENGINEER
OF HAWAII

VOL. 41 NO. 8

SERVING 2000 ENGINEERS & LAND SURVEYORS

OCTOBER, 2005

OCTOBER = NATIONAL ENERGY AWARENESS MONTH

It is October and that means it is National Energy Awareness Month. And, as part of the "celebration" in Hawaii, the second annual "Live Energy Lite" festivities returns to Ala Moana Center from 10 a.m. to 4 p.m. on Saturday, October 15, 2005.

With crude oil prices at record highs, the instability in the Middle East continuing and, most recently, with Hurricane Katrina dealing a fierce blow to pumping and refining capacity in the Southeast, thinking about Hawaii's Energy Future is more critical than ever. While most attention is focused on gasoline prices at the pump, Hawaii is waking up to the reality that we must be concerned about electricity as well.

On Oahu, our capacity to generate electricity has been fairly stable for over a decade at about 1,700 megawatts, and yet our demand for electricity continues to grow, sometimes at record rates. Part of the solution lies on the customer side of the meter. For commercial and industrial customers, that means an increased emphasis on demand-side management programs, including advice, assistance and financial rebates to customers who find ways to reduce their demand.

For homeowners, it means a continuing push to install solar water heating – now on an estimated one in five homes statewide – and for individuals it means renewing, or instilling for the first time, attitudes and behaviors for using energy wisely.

On the commercial and industrial front, since 1996 businesses working with HECO have invested over \$70 million in energy efficiency. HECO provided these businesses \$14 million in rebates and customers stood to save \$250 million over the life of the investments. These demand-side management efforts have reduced demand by a whopping 34 megawatts, saving over 244 gigawatt hours annually. These efforts avoid the use of 407,000 barrels of oil annually or 4.5 million barrels over the life of the systems. And the energy efficiency efforts are accelerating.

The campaign for more energy awareness is just beginning, but there are signs that a new advertising campaign featuring music by the L.A. jazz group Hiroshima, publicity campaigns through newspapers and television, an aggressive speakers bureau and distribution of energy awareness materials at a growing number of public events such as Live Energy Lite – all these are beginning to make a dent on public perceptions.

Another part of our energy future needs to be increased use of renewable energy sources. The Hawaii State Legislature has mandated a renewable energy goal of 10 percent of total

energy production by 2010, and 20 percent by 2020.

Getting to goal won't be easy, says HECO Chief Technology Officer Karl Stahlkopf, who was hired as senior vice president three years ago to find ways to meet state renewable standards, among other energy solutions. To get there, Stahlkopf and his staff are instigating a number of renewable development initiatives, including HECO's subsidiary, Renewable Hawaii, Inc., power agreements with firms interested in building renewable facilities in the State, and studies investigating the feasibility of emerging technologies.

Renewable Hawaii was formed in 2002 with an initial \$10 million for investments in cost-effective, commercially viable renewable projects. The HECO non-regulated subsidiary is focusing on larger-scale projects that can contribute significant megawatts to the electric systems on Oahu, Maui, and the Big Island. While these investment proposals are being reviewed, the utilities are also negotiating power buys from companies that are ready to build renewable plants, many of them for wind energy.

On the Big Island, which already gets about one-fifth of its electricity from renewables, plans are underway to expand Apollo's Kamaoa wind farm at South Point from its existing seven MW to 21 MW. In addition a 10.5-MW wind farm at Hawi on the Big Island also under construction. On Maui, MECO has approval to buy up to 30-MW from a wind development at Kaheawa Pastures.

The Puueo run-of-the-river hydro-electric plant on the Big Island has been re-powered from 1.5 to 2 megawatts and other small but still important hydro-projects are at various stages of development. In Lahaina, there is a proposal to re-power an existing 500-kW hydro generator previously used by the Pioneer Sugar Mill.

On Oahu, HECO is still accessing the financial and technical viability – and equally importantly, the public acceptance of a 36 to 39 megawatt wind farm that could be located above HECO's Kahe Power Plant near Nanakuli on the Leeward Coast. Some of the 24 to 26 wind turbines – which tower nearly 400 feet from the ground to the top of their blades – would be visible from Nanakuli, Ko Olina and Kapolei, so there are understandable concerns about visual impacts, as well as cultural or archeological sites that might be in the proposed wind farm area.

Meanwhile, many research studies and demonstration projects are underway. To cite just a few examples:

- Electric possibilities for water flowing down pipes belonging to County and State water systems are being studied by several partnerships. The Hawaii County Department of Water Supply and HELCO are sharing study

(continued on page 9)

What: Second annual "Live Energy Lite!" celebration of Energy Awareness Month

When: 10 am to 4 pm, Saturday, October 15, 2005

Where: Ala Moana Center

Why: Have fun and learn to save energy, the environment and some money.

Entertainment: Ho'okena, one of Hawaii's longest-lasting music groups with nearly a dozen CDs and many Na Hoku Hanohano Awards on their shelf, will be the featured performers at Centerstage. Led by Manu Boyd, Ho'okena features Horace K. Dudoit III, Chris Kamaka and Glen H.K. Smith.

As fresh and alive as when they released their first CD "Local Girls," multiple Na Hoku Hanohano Award winner Keahiwai, composed of Mailani Makainai and Lei Melket, will also be performing, featuring music from their recently released CD "Dangerous."

Also appearing will be The Mad Scientists, four Hawaii science teachers whose crazy antics on stage will make learning science fun as well as interesting.

What: Interactive exhibits, experts to answer questions, contests and prize giveaways, great entertainment and much more designed to make it easy for people of all ages to learn about energy conservation and efficiency.

Who: Sponsors: Ala Moana Center; Malama Hawaii; State of Hawaii Department of Business, Economic Development, and Tourism; U.S. Department of Energy and Hawaiian Electric Company. Additional participants and supporters to date include Hawaii Solar Energy Association; Honolulu Board of Water Supply, The Gas Company, Kokua Hawaii Foundation, University of Hawaii School of Architecture's Center for Smart Building and Community Design, Rocky Mountain Institute and the UH-Manoa Hawaii Energy Policy Forum.



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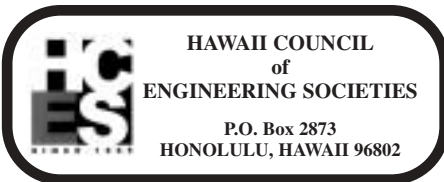
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WILIKI MAILING LIST

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

Laverne Higa
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HOME PAGE: <http://hces.us>

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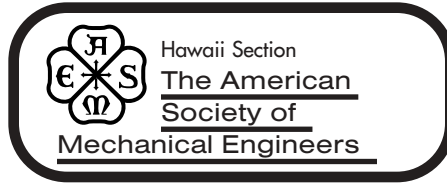
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NEXT MEETING PLACE AND DATE OF THE ASME HAWAII SECTION

Place: Hawaiian Electric Company, Inc.

Room: Cafeteria Room No. 2

(3rd Floor Level, Makai Building)

Date: October 11, 2005

Time: 5:30pm to 6:30pm

ASME HAWAII WELCOMES NEW MEMBER DUSTIN HAMACHER, P.E. AND CURTIS OMURO, P.E.

The ASME Hawaii Section held its general membership meeting on Tuesday, September 13, 2005 at the Hawaiian Electric Company, Inc. Highlights of the meeting include having Mr. Dustin Hamacher, P.E. and Mr. Curtis Omuro, P.E. attend and participate in discussions. Also in attendance were Mr. David Narahara, President of the UH ASME Student Section Chapter; Mr. No'eau Camarillo and Mr. John Kato, both senior mechanical engineering students at the University of Hawaii.

Mr. Hamacher currently serves as an officer in the U.S. Coast Guard at the Sand Island Facility and has been a new member of the section since March of this year. Mr. Hamacher has extensive experience with marine boilers and related systems and has recently gain successful certification as a registered professional engineer in the state of Hawaii.

Mr. Omuro recently moved back to Hawaii from Seattle, WA and is employed at Hawaiian Electric Company, Inc. (HECO) in the Power Supply Engineering Department as a Mechanical Engineer II. Mr. Omuro is a graduate from the College of Engineering at the University of Hawaii (BSME, 1998) and is a registered professional mechanical engineer in the state of Washington and Hawaii.

His previous work involved designing ventilation systems for clean room environments and water filtration systems in the pharmaceutical industry. His current work at HECO involves design work as related to power plant engineering and managing Generation Asset Management (GAM) projects for Hawaii Electric Light Company (HELCO) on the island of Hawaii.

The ASME Hawaii section welcomes Mr. Dustin Hamacher and Mr. Curtis Omuro to the society and looks forward to having them participate in future activities.

2006 SOCIETY OFFICER ELECTION PROXY/BALLOT FOR PROPOSED AMENDMENT TO THE ASME CONSTITUTION

The ASME Hawaii section members should have received their proxy and ballots included in the September issue of the MECHANICAL ENGINEERING MAGAZINE. The biographical

sketches of the 2005 nominees for Society-wide elective offices along with the proposed changes to the ASME Constitution are available on the ASME web site at www.asme.org/nomcomm/proxyballot/ or can be obtained in printed form by contacting ASME Information Central at 1-800-843-2763 or 1-973-882-1167.

Our society policy requires that the Nominating Committee bring one nominee to the voters for each of the positions of President, at-large members of the Board of Governors and each Vice President. A large vote indicates support for the nominee and their ability to provide the leadership demanded by the constituency. A low vote, on the other hand, denies that officer the enthusiastic support he/she needs and deserves, and indicates an indifference of the membership.

The deadline for proxies/ballots to be returned is October 21, 2005. The ASME Hawaii Section officers encourage the membership to return the proxies/ballots by the above deadline. For further information, please email Raymond Liu @ rlu192228@aol.com.

NOMINATIONS FOR THE FRANK VON FLUE AND BEN C. SPARKS MEDALS

The ASME Hawaii section is currently accepting nominations for the ASME's 2006 Ben C. Sparks and the Frank von Flue Medals, which recognize educational contributions to the mechanical engineering profession within and outside of academia.

Frank Von Flue Medal - Named in honor of the late Frank von Flue, member of the ASME Board of Governors, an industrial manager and a pioneer in promoting professional development of engineers, this award recognizes significant contributions by an individual, group, or organization to the promotion of lifelong learning for mechanical engineers and the development or implementation of strategies and/or materials for lifelong learning.

The ASME Hawaii section was selected as the recipient of this prestigious award for the 2003-2004 society year during the last Regional Administrative Conference (RA C) held in Los Angeles in April of this year. For more information, please visit <http://www.asme.org/education/prodev/awards/vonflue>.

Ben C. Sparks Medal - This award recognizes eminent service to mechanical engineering technology education through contributions to ASME; to higher education professional service; and to the teaching and/or research faculty roles in mechanical engineering and mechanical engineering technology. <http://www.asme.org/education/enged/awards/sparks>

Each award consists of a \$1,000 honorarium and a bronze medal. They will be presented at an award ceremony at the ASME International Mechanical Engineering Congress & Exposition in November 2006 in Chicago, IL. The postmark deadline for nominations is January 31, 2006. For award and nomination details, please visit <http://www.asme.org/education/enged/awards/sparks> or <http://www.asme.org/education/prodev/awards/vonflue>

NEWSPAPER OF THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS NOW ONLINE

The ASME Newspaper, which is usually mailed along with the Mechanical Engineering Magazine, can currently be viewed online exclusively at <http://www.asmenews.org/>.

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

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2005-2006 EAAUH Scholarships

Congratulations to the recipients of the 2005-2006 EAAUH Scholarships:

- Wyatt Hue, Pearl City High School (CE)
- Curtis Ogi, Waiakea High School (CE)
- Chester Lim, McKinley High School (EE)
- Cheyne Eugenio, Mililani High School (EE)
- James Cuaresma, Castle High School (ME)
- Kyle Seigaku, Mililani High School (EE)

The **Kely Nakata Scholarship** is awarded each year to the most outstanding student enrolling in the Civil Engineering program. Congratulations to this year's recipient, Wyatt Hue of Pearl City High School.



HAWAII CHAPTER

P.O. Box 508, Aiea, Hawaii 96701
 Phone: (808) 485-1400 Fax: (808) 485-1500
 Web Page: www.lgsea.com

2005 OFFICERS & DIRECTORS

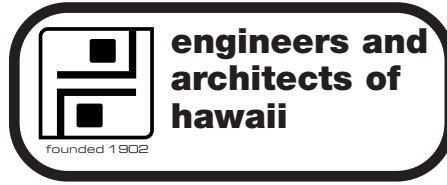
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| Director | Shane Arnold 864-8133 | |
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General Membership Update

The program committee continues to plan activities for the remainder of 2005, on the heels of the terrific seminar by Don Allen, P.E. on "Details for Cold Formed Steel: Right and Wrong." Over 60 people at the Willows Restaurant attended this seminar. Guests gave rave reviews on both Mr. Allen's presentation and the wonderful buffet dinner provided by the Willows staff.

On November 17th, the LGSEA is pleased to announce a seminar by Greg Crawford, Vice President, Operations, of the Steel Recycling Institute from Pittsburgh, PA. The Steel Framing Alliance has graciously stepped up to sponsor the event and bring this renowned

(continued on page 9)



po box 4353, honolulu, hawaii 96813
 An association for Hawaii's Engineers and Architects
 New WEB Address <http://community.hei.com/eah>

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| Director | August Ahlf | |
| Past Pres | Bob Morrissey | 521-4711 |

October Meetings

- October 7th No Meeting Discoverers' Day
- October 14th Speaker: TBA See EAH WEB page
- October 21st Speaker: TBA See EAH WEB page
- October 28th Speaker: TBA See EAH WEB page

WEB Site: <http://community.hei.com/eah/>

Meetings held every Friday at YWCA room 205 on Richards Street downtown. Parking at Alii Place off Alakea Street for \$1.50 per hour. Meetings start at NOON and end promptly at 1:00 pm.

Members-\$8.00 Guests-\$9.00

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.

Meeting Notes for Aug 12th, 2005

Speaker: Sam Gillie, EAH
 Secretary
 Subject: "Honolulu, Now and Then"

Sam presented a dvd video he had prepared of old photos of scenes around Oahu ranging from the 1870's to 1950's. Sam's video toured through downtown on Merchant St, King St, Bishop St (before there was a Bishop St), Nuuanu Ave and Hotel St, showing old building as the Old Post Office, the Bishop Bank Co., the old Royal Hawaiian Hotel on Hotel St. Also were pictures of the two China Town fires, the horse racetrack in Kapiolani Park, the Honolulu Water front, views from Punchbowl, the Honolulu Brewery, the Honolulu Iron Works, the construction of the New Royal Hawaiian Hotel in Waikiki and views around Waikiki, when it was nothing but rice and taro fields.

Meeting Notes for Aug 26th, 2005

Speaker: Sam Gillie, Senior Tech Engineer, HECO

Subject: "Distributed Generation on Oahu"

Sam Gillie explained HECO's plans to install temporary Distributed Generation (DG) on Oahu to be used for peaking service to help maintain generation reserves. HECO has three sites for immediate development on Oahu for 2005 First installation targeted for Fall 2005; Up to 14.76 MW in 2005. The DG will be Temporary until next generating plant is in operation in 2009, so units are rental; Small scale (less than 5 MW per site); Sites chosen to minimize impacts to community; Capacity 1.64 MW each (continuous); Units either on or off (full capacity). Budgeting for 500 hours operation per unit per year; DG is a valuable utility resource, complementing central station power, DSM, and load control programs HECO DG/CHP and DSM programs cover substantial portion of load growth between 2005-2009.

Meeting Notes for Sept 9th, 2005

Speaker: Milton Staackmann

Subject: "Effective Meditation Techniques"

Milton Staackmann, an Electrical Engineer by training and occupation, shared with us, his personnel experiences and study of meditation techniques. He explained that the benefits of meditation have been documented by testing groups of people that suffer from various medical conditions, by measuring heart rates of those that meditate and those that do not. He also, helped the group practice a 2 minute meditation session using our own breathing as something to focus on. Some thought the 2 minute period was longer, while other thought shorter. He recommended everyone meditate at least 30 minutes a day.

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- Computer Science/Information Technology, Engineering, Sciences (Architecture, Bio-chemistry, Biology, Chemistry, Forensics, Mathematics, Nursing, Physics, medical specialties), Law, Languages, Accounting/Finance, Intelligence, Foreign Counterintelligence, Counterterrorism
- 2-3 years strong professional/investigative/managerial work experience desired
- 23-36 years of age
- Drug policy/drug testing mandatory
- Entry-level salary (GS-10) is \$46,186 Academy training; \$57,646 - \$82,571 upon graduation, including locality/availability pay

FBI Special Agents
 AMERICA'S FINEST



2004-2005 ASCE Hawaii Section Executive Committee

| Office | | Phone | FAX |
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| President | Keith Niiya | 533-3646 | 526-1267 |
| | <i>email: kniiya@atahawaii.com</i> | | |
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| | <i>email: wbillingsley@beltcollins.com</i> | | |
| Vice Pres. | Lori Fong | 384-5372 | 689-1585 |
| | <i>email: lfong@ascehawaii.org</i> | | |
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| | <i>email: ooi@wilki.eng.hawaii.edu</i> | | |
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| | <i>email: ron@iwamotollc.com</i> | | |
| Past Pres. | Westley Chun | 440-0269 | 945-7269 |
| | <i>email: Westley.Chun@ch2m.com</i> | | |

OCTOBER DINNER MEETING – ANNUAL BANQUET

Program:

- 1) Installation of 2005-2006 ASCE Hawaii Section Officers.
- 2) Presentation of projects nominated for the 2005 Hawaii Section Outstanding Civil Engineering Achievement (OCEA) Award and presentation of the OCEA Award.

Date: Thursday, October 20, 2005

Location: Shogun Restaurant in the Pacific Beach Hotel (Moi/Papio Room, 2490 Kalakaua Avenue)

Time: 5:45 p.m. - Social Time

6:30 p.m. - Dinner
7:30 p.m. - Program
9:00 p.m. - Adjourn

Menu: Multi-entree buffet (including King and Dungeness crab legs, butterfish misoyaki, prime rib, sushi, tempura and more)

Cost: \$35.00 for Hawaii Section members
\$38.00 for non-section members and guests
\$17.50 for University of Hawaii at Manoa Student Chapter members

Please make checks payable to ASCE-Hawaii Section and mail to Ron Iwamoto, ASCE Treasurer, c/o Iwamoto & Associates, LLC, 98-029 Hekaha Street, Suite #37, Aiea, Hawaii 96701, postmarked by Monday, October 17, 2005. Reservations for the dinner meeting to Ron Iwamoto by Monday, October 17, 2005, by phone at 486-5202, fax at 486-5206 or email at ron@iwamotollc.com.

EXECUTIVE COMMITTEE MEETING

October 6, 2005

POPSICLE BRIDGE COMPETITION

The ASCE Hawaii Section and the University of Hawaii (UH) College of Engineering are co-sponsoring a Popsicle bridge competition specifically for middle school students. This competition is scheduled to be on November 18, 2005 at UH. The purpose of the competition is threefold:

- To promote teamwork, technical and communication skills
- To create opportunities for interaction among students, teachers and the engineering community
- To inspire students to pursue a career in Engineering.

If you know any middle school students that are interested, please have them contact their teachers so that they can get in touch with the

contest organizers: Dan Marsh (*engineering@engrsol.com*) at Phone 488-0477/ Fax 488-3776 or Keith Niiya (*kniiya@atahawaii.com*) at 533-3646/Fax 526-1267 or Phillip Ooi (*ooi@eng.hawaii.edu*) at 956-8512/Fax 956-5014.

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 – Honolulu, Project Manager – Maui)
- CH2MHILL (Entry-level Water Engineer - Honolulu)
- Fewell Geotechnical Engineering (Geotechnical Engineer - Honolulu)
- Fukunaga & Associates (Civil and Civil/Environmental Engineers - Honolulu)
- GeoEngineers, Inc. (Senior Engineer)
- Miller Associates, Inc. (Hawaii Licensed Land Surveyor)
- NTW Associates Inc. (Structural Engineer)
- 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 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.

KNOW YOUR ASCE HISTORY

by C.S. Papacostas

TALES OF CARS AND HORSES

In November 2004 Loy Kuo of the Hawaii Department of Transportation sent me a message that said in part:

"I enjoy reading your History & Heritage column in the Wilki. You may be interested in reading this 90-yr old, 8-page document that I accidentally came across last week. Note on page 6, it commented that roads should be built to still accommodate horses."

The single-spaced typewritten document that Loy digitized and attached to his message was dated November 11, 1914 and carried the title "Report of County and Municipal Affairs Committee to the CHAMBER OF COMMERCE OF HONOLULU." Prof. A. R. Keller, for whom Keller Hall on the University of Hawaii's Manoa campus was named, authored it and addressed it to the "Municipal Research Club, Committee on City Plan."

The report set forth the following objectives:

"1. To give ready access from one portion of Honolulu to the other.

2. To provide in case of present traffic congestion an auxiliary outlet..."

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Attention All Engineers!

CIVIL ENGINEERING JOB OPPORTUNITIES CIVIL ENGINEERS II-VI

Current and anticipated vacancies are available in the following departments:

Board of Water Supply – Customer Care and Engineering Divisions

Design and Construction – Civil and Wastewater Divisions

Environmental Services – Administration

Facility Maintenance – Road Division and Chief Engineers Office

Planning and Permitting – Site Development Division

Transportation Services – Traffic Engineering Division

Applications are being accepted from residents, former residents of the State of Hawaii and residents from other states. At time of application, you must be a citizen, national or permanent resident alien of the United States or a non-citizen eligible under federal law for unrestricted employment.

Applications available online and at the Department of Human Resources, 650 S. King St., 10th Floor (Honolulu Municipal Building - Photo I.D. required for entrance). Hrs. Mon. to Fri. 7:45 a.m. to 4:30 p.m. For more information, call 527-5571 or visit website at www.honolulu.gov/hr.

CITY AND COUNTY OF HONOLULU

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2004

Concrete Achievement Awards



NEW LANDSCAPING PROJECT WITH CONCRETE PRODUCTS AWARD

POLYNESIAN CULTURAL CENTER HALE ALOHA ALII LUAU

OWNER POLYNESIAN CULTURAL CENTER
ARCHITECT BELT COLLINS HAWAII LTD.
DESIGNER KOTARO KOIZUMI
GENERAL CONTRACTOR ARITA-POULSON GENERAL CONTRACTING LLC

A very popular, but old, amphitheater was transformed into a highly and even more popular 650-seat luau amphitheater. The major focal point of the project consisted of reshaping an island with sculptural mountains, waterfalls and flourishing plantings. Concrete provided a durable product that would age gracefully in a wet environment with its waterfalls, lagoon and proximity to the ocean's salt air. Limited access to the site and construction time constraints made it expedient to utilize concrete in several ways – keystone concrete retaining wall systems for lagoon edges and for amphitheater terraces, precast concrete foot bridges over lagoon and GFRC (glass fiber reinforced concrete) to create simulated mountains with waterfalls and planting pockets.



2004-2005 YMF OFFICERS

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Next YMF General Meeting

The next two YMF general meetings are scheduled for 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; and Tuesday, November 1, 6:00 p.m., at Ryan's Grill, 591-9132. 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.

YMF NOVEMBER STORM DRAIN STENCILING COMMUNITY SERVICE PROJECT

The Hawaii Section YMF will be stencilizing the "Dump No Waste", Goes to Ocean" message over the City's storm drains on Saturday, November 19, 2005 from 8:00-11:30 A.M. in Waikale. The meeting place is yet to be determined. A lunch or picnic will follow. For more information, please contact Emi Kiyoi at ekiyoi@beltcollins.com or Aaron Kam at akam@ascehawaii.org.

YMF RAISES \$2,000 FOR THE MDA

Special thanks to the 12 YMF volunteers and friends who helped raise over \$2,000 at the Hawaii Muscular Dystrophy Association's "Catch-A-Cure" campaign on August 27, 2005. The YMF has been participating in this great event for 5 straight years, during which time the YMF volunteers have helped collect over \$20,000! All of the money raised at Catch-A-Cure stays in Hawaii and is used by the MDA to sponsor services such as patient support groups and a one week summer camp for patients afflicted with muscular dystrophy and other neurological diseases.

YMF AUGUST GOLF SOCIAL

On August 26, 2005, sixteen ASCE YMF members and friends kicked off their weekend with an enjoyable round of golf at Royal Kunia Golf Club. While the first 18 holes were played in Kunia, the 19th hole for this outing was at Ige's in Pearl City. The YMF golf committee is planning another golf outing for November 2005, so keep checking the Wiliki and YMF website (www.ascehawaii.org/yymf.html) for the date and sign-up.

ASCE Job Classified

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

ASCE History, from page 4

3. To provide main arteries for storm drains, sewers, water and gas mains...

4. To distinguish between main arteries, secondary arteries, and side streets...

Additionally, he proposed a detailed plan for the section extending from Ward to

Houghtailing in the East-West direction and between the waterfront and Judd Street inland. He recognized, however, that "this section of the city has been studied by many people, numerous schemes have been laid out, but in turn each had to be abandoned for lack of funds."

The proposed classification of roadways into three categories would serve a dual purpose: It would affect "an equitable division of assessment ... upon abutting property owners" and it would determine the pavement structure that was appropriate to each class.

Thus, the report considered "equitable" to set the distribution of costs between abutting property owners and the rest of "the district benefited" to 60/40 in the case of main thoroughfares, 80/20 in the case of secondary arteries and 100/0% for side streets.

As for pavement structures, the main arteries would feature a 6" concrete base with proper expansion joints topped by "a wearing surface from 4" to 6" thick" consisting of "vtrified [sic] brick," stone or wood blocks. In the case of secondary roads "an asphalt macadam, mixing method, will probably give as serviceable a pavement for low cost," whereas "for side streets the concrete base may usually be omitted and in general an oil bound macadam would serve."

Good Old Professor Keller offered a plethora of spot improvements, street extensions and new roadways to provide access, reduce congestion and address military needs. For example, "the westward end of Queen Street should be extended parallel to the old O. R. & L. tracks around Moanalua where a connection could be made with the present Pearl Harbor Road. This road would be extremely useful for the military..." At the other end, "Queen Street should be extended to Ala Moana. This is only a few hundred feet but would at once open a second direct route from central Honolulu to Waikiki." Additionally, "in order to further relieve the congestion on South King Street a second thoroughfare to Waikiki should be afforded by the extension of Hustace Street parallel to Queen Street to Ward Avenue thence across the swamp lands to Kalakaua Avenue." Some of

the many ideas espoused by Keller were "the removal of two closed spots on Young Street, one at Punahou, and the other at Artesian Street" that would, without much expense, give relief to King Street congestion" and a plan that "McCully Street, from King to Kalakaua Avenue, now only a street car right of way, should be open to vehicles as well as pedestrians."

Interesting stuff!

O. R. & L. was Benjamin Franklin Dillingham's Oahu Railway & Land Company, built on the cusp of the 19th and 20th centuries (see the June and July 2000 articles in this series). Pearl Harbor Road and Hustace Street are nowhere to be found on 21st century maps, the "few hundred feet" between Queen and Ala Moana were never built, and the "swamp lands" pre-date the Ala Wai Canal and modern environmental concerns regarding wetlands! The private streetcar right of way along McCully belonged to the H. R. T & L Co., The Honolulu Rapid Transit and Land Company (see February 1996).

Relating to Loy's observation about accommodating horses, the 1914 report states:

"In this day of the automobile we are apt to forget the horse ... that is still with us and probably will continue to be for many years." The suggested solution to steep streets that were slippery due to oiling was to provide a "rough section paved with such material as will give the horses proper foothold."

According to my notes, it was but only a few years earlier, on December 14, 1906, that the Hawaiian Star bemoaned that "AUTOMOBILES INVADE MAUI" because "three new machines arrived." The same issue of the newspaper published the list of all 100 registered automobile owners and the number and types of automobiles each owned!

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@wiiki.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>.

"Seismic and Wind Design Considerations for Concrete Buildings" with S.K. Ghosh

Sponsored by Structural Engineers Association of Hawaii and the Cement and Concrete Products Industry of Hawaii

This seminar will present an overview of the seismic detailing requirements in Chapter 21 of ACI 318-02, which is referenced in the 2003 IBC. Application of the seismic and wind provision of the 2003 IBC are illustrated by designing and detailing typical structure member in five types of concrete structures, which are located in areas of low, moderate, and high seismic risk on different types of soil.

Tuesday, November 22, 2005, from 8:30 am to 3:30 pm (registration at 7:30 am), Pagoda Hotel, at C'est Si Bon, 1525 Rycroft Street, Honolulu.

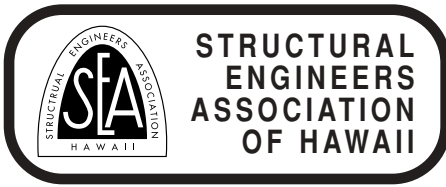
Featured speaker is S.K. GHOSH, P.E., Ph.D., president of S.K. Ghosh Associates Inc. (SKG), which is a company that specializes in structural, seismic, and code consulting.

Registration fee is \$75 per SEAHC/CCPI member; \$100 per non-members; \$40 per UH engineering student. Registration includes presentation notes, lunch, and parking. Class size is limited.

Registration deadline is November 17, 2005.

For additional information or to register, call CCPI at 848-7100 or email to wkawano@ccpihawaii.org





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HIGHLIGHTS OF BOD MEETING

September 07, 2005

Committee Reports:

Membership Committee: New membership applications were received from Andy Boyd, Rocky Mountain Prestress, Affiliate Member, Jason Emoto, Shigemura Lau Sakanashi Higuchi & Associates Inc., Member, and Donald Gresko, Sato & Associates, Inc., Allied Member. Comments on the three (3) applications are being solicited from the general membership and shall be submitted to the Board of Director's before November 01, 2005.

Amy Taniguchi, KAI Hawaii, Inc., was accepted for SEAHO membership as a Student Member.

SEAHO would like to recognize the following engineers who successfully completed the Structural Engineering licensure examination – Mr. Brian Enomoto, Mr. Manuel Guarin, Mr. Layne Hazama, Mr. Juan Rivera, Mr. Henry Wendt, and Mr. Guangren Yu.

2005 SEAHO Convention Committee: A tentative Program of Events for the 2005 Cement and Concrete Products Industry of Hawaii (CCPI) & SEAHO Joint Annual Convention, Turtle Bay Resort, Oahu's North Shore, Hawaii, was distributed. It was also reported that the Turtle Bay Resort, as well as the neighboring Turtle Bay Condos and Turtle Bay Estates, have stopped accepting room reservations for October 20 – 22, 2005; the days of the Convention. Attendees to the Convention are encouraged to seek alternate accommodations as soon as possible.

Program Committee: The Dietrich Metal Framing light gauge steel plant tour has been postponed until November / December 2005. As a result, the SEAHO Quarterly Meeting, that was planned to be held in conjunction with the plant tour, is now without a featured topic / speaker. Suggested new topics included: (1) the response and relief effort to Hurricane Katrina that battered the Gulf Coast states in late August; and, (2) the Applied Technology Council (ATC) ATC-45 "Field Manual: Safety Evaluation of Buildings after Wind Storms and Floods" and ATC-20 "Procedures for Postearthquake Safety Evaluation of Buildings".

It was proposed and accepted that the proceeds from the SEAHO Fall Golf Tournament will be donated to the Hurricane Katrina relief effort.

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 masonry units for each grout pour was discussed and will be forwarded to the City & County of Honolulu Building Code ad-hoc committee for further review.

SEAHO Nominating Committee: A nominating committee, consisting of the immediate Past President as chairman, a minimum of two Members and two other members will be formed to nominate candidates for the 2006 SEAHO Board of Directors.

Hawaii Council of Engineering Societies (HCES): It was reported that HCES has proposed revising the eligibility requirement to be nominated for the HCES Lifetime Achievement Award that currently requires that the award be made to a person who has been retired for not more than four years, to not more than ten years.

New Business:

Hurricane Katrina Relief Effort - Request for Volunteers: The Structural Engineers Association of Washington (SEAW) has issued a mass e-mail notifying its members of the organization's efforts to develop a list of volunteer engineers available to travel to the affected areas of the Gulf Coast to perform life-safety building damage assessments. The SEAHO would also like to join in the organization effort,

as part of the National Council of Structural Engineers Associations' (NCSEA) nationwide organization effort, by compiling a list of volunteer engineers from the State of Hawaii who would be available to serve for a period of five-to-seven days in the Gulf Coast states after the initial search and rescue and recovery has been completed. This initial list of volunteers would be used to determine how many engineers are available to assist in the effort over the next few months and will not be used as a list of persons for immediate deployment. The SEAHO has proposed a partial subsidy of travel expenses of SEAHO volunteers (total amount to be determined). SEAHO will be issuing a form that will provide the organization with information on volunteers interested in serving in the Hurricane Katrina relief effort and on the current level of emergency response training of those volunteers. Engineers interested in volunteering are encouraged to fill out the form

and to return it via e-mail to Mr. Steve Baldrige [e-mail: sb@baseengr.com].

Disaster Response Committee: At the same time, SEAHO would like to update its list of engineers who have completed training in the Applied Technology Council (ATC) ATC-45 "Field Manual: Safety Evaluation of Buildings after Wind Storms and Floods" and ATC-20 "Procedures for Postearthquake Safety Evaluation of Buildings". All engineers interested in including their name in the SEAHO database of engineers with such training are encouraged to fill out the aforementioned form and to return it via e-mail to Mr. Steve Baldrige [e-mail: sb@baseengr.com].

Hurricane Retrofit Advisory Committee: It was reported that SEAHO was contacted by the Hawaii Insurance Division regarding the proposed formation of a Hurricane Retrofit Advisory Committee to develop recommendations for retrofitting of residential construction for hurricane preparedness. The formation of a new advisory committee to develop such recommendations and to update the prescriptive recommendations for wind loads for residential construction "Tips Booklet" previously compiled and published by SEAHO was discussed, however the issue was tabled for future discussion. A list of individuals that were involved in developing the "Tips Booklet" and a list of individuals that return the post-hurricane survey will be forwarded to Mr. Lloyd Lim of the Hawaii Insurance Division.

2005 Calendar of Events:

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

(continued on page 9)



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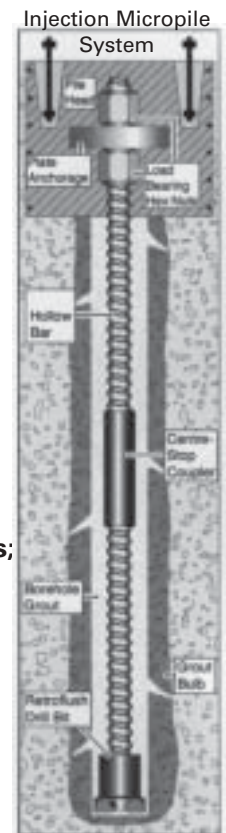
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3rd Annual DoD Hawaii Small Business Forum

The Honolulu Post of the Society of American Military Engineers (SAME) participated in the 3rd annual DoD Hawaii Small Business Forum on 7 July 02. Our representatives set up a SAME booth with our banner, and provided SAME membership information and brochures. The DoD Hawaii Small Business Forum is an annual event promoted and conducted by the military tri-services, Air Force, Army and Navy and the Hawaii Small Business Development Center. The Hawaii Sub-Chapter of the DoD Western Regional Council for Small Business Education and Advocacy also played a key role with promotion and manpower for behind the scenes work. The forum attracted more than 220 small business members and companies, along with members and contracting personnel from the tri-services, and State and City small business agencies. Mr. Marc Aoyama, Small Business Director for the Honolulu Post, put together a small support team of SAME members including Maj Matt Jefson, Lt Krista Hickman, and Lt Alex Nelson to man our SAME booth, distribute membership kits, and network with forum participants as well as other exhibitors.

Leader of this year's Hawaii Small Business Forum was Mr. Newton Yuen, Associate Director for Small and Disadvantaged Business Utilization with the U.S. Army, ACA Pacific Region. He was ably assisted by Ms. Floria Pang, Staff Advisor for Small Business & Contract Labor Relations with the U.S. Navy, and Mr. James Watanabe, from the 15th Contracting Squadron at Hickam AFB, Ms. Leah Craft from Hawaii SBDC, as well as other members of the Western Regional Council.

Brig General Robert L. Davis, Commander, U.S. Army Corps of Engineers, Pacific Ocean Division, gave the opening remarks, with welcoming remarks provided by Congressman Ed Case, Hawaii's Second Congressional District Representative, and Ms. Tracey Pinson, Director, Department of the Army, Office of Small and Disadvantaged Business Utilization.

A full and well rounded agenda included the following topics: Changes in GSA Contracting Procedures, Army Contracting Opportunities – Stryker Brigade, Navy Transformation/Opportunities, Air Force Contracting Opportunities, and How to Acquire Bid Bonding. Afternoon workshop sessions included: Subcontracting Opportunities with Actus Lend Lease, U.S. Small Business Administration Certifications for Small Business, Subcontracting Opportunities with

Parsons, Doing Business with the Army Corps of Engineers, Native Hawaiian Organizations and the SBA 8(a) Business Development Program, Doing Business with K-Bay Marine Corps Base Hawaii, DoD Email Business Opportunities, Doing Business with Fleet Industrial Supply Center, and How to Do Business with NAVFAC Pacific.

The forum was also attended by Ms. Jennifer P. Fogg, in her capacity as President, RMA Land Construction, Inc. Ms. Fogg is currently serving as the SAME National Small Business Council Chair and as a member of the Board of Directors, and serves as a member of the Senior Executive Group for SAME as well. She introduced herself to Marc Aoyama, who was pleasantly surprised to say the least, that the SAME National Small Business Director was attending the forum. They exchanged contact information, and Ms. Fogg will be an invaluable asset for advice with future small business efforts for the post.

All in all, the 3rd Annual DoD Hawaii Small Business Forum was a resounding success, and the Honolulu Post was proud to be a participant and supporter. Hats off to Mr. Newton Yuen, Ms. Floria Pang, Mr. Jim Watanabe, Ms. Leah Craft and the members of the DoD Western Regional Council for Small Business Education and Advocacy for putting on a superb effort.

SAME Welcomes 50th Sustaining Member Firm

The Honolulu Post of SAME welcomed HNTB Federal Services as its fiftieth sustaining member in September.

HNTB Federal Services is a wholly owned subsidiary of the HNTB Companies, an employee-owned organization of infrastructure firms known and respected for work in transportation, bridges, aviation, architecture and urban design and planning. HNTB Federal Services draws on the resources of HNTB Companies subsidiaries, HNTB Corporation and HNTB Architecture Inc., to provide federal-sector clients diverse services, including civil engineering, security planning and military facility design on a national and international basis.

The Honolulu Post of SAME is the fifth largest in the worldwide organization with more than 400 individual members. It is the fastest grow-

ing post in the organization and is unique in that it includes three services' regional Engineering Chiefs within its ranks. The Honolulu Post includes installation- and command-level representatives from all branches of the US Armed Forces, expeditionary units, the US Coast Guard, and some of the nation's most prominent architecture/engineering and construction firms. President Bush termed this the military's "Century of the Pacific"; the military engineers and sustaining member firms of SAME's Honolulu Post are certain to make Honolulu the military's engineering capital of the Pacific.



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OCTOBER MEETING NOTICE

BGen (Ret) Enyart to Address October SAME Meeting

Larry Enyart, BGen, USAF (Retired), will address the October meeting of the Honolulu Post of SAME, 1130 hrs, 11 Oct 05, at the Hale Ikena on Fort Shafter. He is a former mobilization assistant to the Air Force civil engineer, deputy chief of staff for installations and logistics, Headquarters U.S. Air Force, Washington, D.C. where he advised the deputy chief of staff for installations and logistics and the Air Force civil engineer on matters pertaining to training and equipping the 65,000 person civil engineering total force including Prime BEEF, RED HORSE. This responsibility also included services for housing, fire protection and aircraft crash and rescue, explosive ordnance disposal and disaster preparedness. Additionally he oversaw total force members at the Pentagon; the Civil Engineer Support Agency, Tyndall Air Force Base, Fla.; and the Air Force Center for Environmental Excellence, Brooks Air Force Base, Texas.

General Enyart is chief executive officer of his Phoenix, Arizona, architecture and engineering firm. He is an adjunct professor of architecture and a professional architect in Arizona, California, Colorado, Nevada, and Texas, and has been invested in the College of Fellows, the American Institute of Architects, Washington, D.C., and the Academy of Fellows, Society of American Military Engineers, Alexandria, Virginia. The general has designed and constructed numerous public buildings in the southwest.

To reserve a seat at the October meeting, or request additional information, please contact Major Matt Jefson, Matthew.Jefson@hickam.af.mil.



Lt Krista Hickman and Lt Alex Nelson man the SAME booth at the 3rd Annual DoD Hawaii Small Business Forum.

Energy Awareness, from page 1

costs on the Big Island and MECO is working with Castle & Cooke Resorts on the potential of using pipelines from central Lanai to the Manele Bay hotel.

- DBEDT and HECO, in partnership with HELCO, Hawaii County, and the State Department of Agriculture, are funding similar research for county, State, and private water systems, in conjunction with pumped storage hydro. With pumped storage, water is pushed uphill during off-peak hours, stored, then allowed to flow downstream to generate power during peak hours. Maui County has a similar study.
- HECO is participating in a six-state project headed by the Electric Power Research Institute on the feasibility of wave power. The company provided engineering support to an ongoing Navy wave-energy demonstration project in Kaneohe Bay.
- HECO, HELCO, and MECO continue to provide engineering, project management, and financing for small solar electric or photo-voltaic (PV) systems at Hawaii public schools. The Sun Power for Schools program includes a curriculum component that goes with the PV systems now at 20 schools across the State.

Twenty percent renewable energy, if that goal can be met by 2020, still means 80 percent of our electricity on Oahu would come from more traditional sources, meaning fossil fuel burning power plants.

HECO has applied to the Public Utilities Commission – and commenced the environmental impact study process – to build a new, approximately 100-megawatt power plant at Campbell Industrial Park, with an anticipated in-service date of 2009. It would be a peaking plant, designed for relatively limited use during the weekday peak in energy demand, generally from 5 to 9 p.m.

While a “traditional” plant in some ways, the proposed facility would be innovative for Hawaii in many other ways. For example, it would be fuel flexible, meaning it could be converted to create power with ethanol or even hydrogen, should these become commercially available and affordable.

In the beginning it will likely burn naphtha, the cleanest derivative from refining crude oil. And since Hawaii’s refineries now produce an excess of naphtha which must be exported to be sold, the new plant should not add to the barrels of oil that need to be imported to Hawaii.

The “bottom line” for HECO and its customers on Oahu is that the answer to Hawaii’s future energy dilemma can not be answered “either-or” but “all of the above.” It is not a choice of renewables or power plants, of renewable or energy efficiency, of energy efficiency or power plants. The answer is that we must do it all, and do it well. *Article prepared by HECO Corporate Communications.*

ASME, from page 2

You can get the latest news of the society without waiting now. Some of the articles in the September issue include:

- ASME’s new E-Library went online in July. A version of the E-Library is available free of charge to ASME members.
- Two ASME student members who took part this summer in projects with the organization Engineers for a Sustainable World.

ASME Hawaii section members are encouraged to visit the site to find out more.

ASME HAWAII RECOGNIZES MEMBERS ACHIEVING 25, 50, 75 YEARS AND LIFE MEMBERSHIP

The ASME Hawaii section is pleased to recognize members who have achieved 25, 50, 75 years and Life Membership during the 2004–2005 Membership year. The recognition awards consists of a Recognition Certificate and a 25, 50, 75 Year or Life Member Rocker pin. The distributions of the awards are scheduled to be mail directly to the recipient after September 14, 2005.

The following Hawaii Section members achieving this milestone event are:

- John C. Burgess, Ph.D. – 50 years
- Walter J. Cerny, P.E. – 75 years
- Ronald M. Gammie – 50 years
- Thomas K. Kurashima – 25 years
- Edes M. Matsukado – 25 years
- Ross H. Sakuda, P.E. – 25 years
- Tadashi R. Uyechi, P.E. – 50 years
- John S. Yamamoto – 25 years
- Don J. Yorimoto – 25 years

ASME HAWAII P.E. REFRESHER COURSE POSTPONED

Due to the low response to the P.E. refresher course announcements and the actual number of qualified mechanical engineering exam candidates scheduled to take the exam in October 28, 2005, the refresher course will be postponed for the upcoming exam. Announcements for the P.E. refresher course for the exam scheduled for April of 2006 will be made on the ASME Hawaii section website at www.sections.asme.org/hawaii.

Interested exam candidates should have already received the minimum qualifying experience (4-years) and filed their application with the Department of Commerce & Consumer Affairs – Professional & Vocational Licensing Branch (DCCA-PVL) before the deadline of January 2006.

Postponement of the refresher course to the April 2006 exam date assumes that more candidates will have already received their qualifying experience by the application deadline and have made payment for all registration fees to the DCCA-PVL and the National Council of Examiners for Engineering and Surveying (NCEES) before the January 2006 deadline. For more information on the application process, please visit www.ncees.org or www.hawaii.gov/dcca/pvl.

For registration in the P.E. refresher course, please email Raymond Liu at rliu192228@aol.com. Registration will end on November 1, 2005 and the cost will be \$150.00 for members, \$200.00 for non-members.

SEAOH, from page 7

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)

Nov/Dec 2005- Qrly Meeting: Light gauge steel plant tour (tentative)

December 03, 2005- Forum: “Masonry Construction Practices Forum”










January 10, 2006- Seminar: AISC “Steel Design After College”

February 24, 2006- Banquet: Engineer’s Week Banquet

LGSEA, from page 3

expert in steel recycling to Hawaii. Mr. Crawford’s talk, entitled “Sustainable Green Steel Framed Homes,” will discuss how cold-formed steel residential construction preferred building material for “green building.” Due to the high percentage of recycling of steel and the higher usage of recycled content in steel than ever before, the environmental footprint left by steel grows even smaller. This event will be held at the Willows Restaurant – please look for flyers in upcoming months. Please join us for what is sure to be a great event – it is a rare opportunity to have an expert like Mr. Crawford speak in Hawaii in person.

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