

wiki o hawaii



ENGINEER
OF HAWAII

VOL. 40 NO. 5

SERVING 2000 ENGINEERS & LAND SURVEYORS

OCTOBER, 2004

OCTOBER IS NATIONAL ENERGY AWARENESS MONTH

across the country, but this year this important month will stand out on Hawaii calendars like it never has before.

There is good reason to be emphasizing energy awareness and conservation in Hawaii today. Electricity demand is growing at a record pace. Last August, use of electricity by residential customers on Oahu was 5.9% higher than August of 2003. Part of the reason, of course, is that it was quite hot. And there are more residential customers than ever.

But another factor is that families are using more electricity for everything from computers to air conditioners. Homes with multiple refrigerators are now much more common and very often the old clunker that gets moved into the garage uses more power than all the newer energy efficient models combined.

If you want more evidence, consider that on September 8, customer demand for electricity on Oahu hit a new high -1,297 megawatts. This was 6 megawatts above the previous high on Oahu, just three weeks before on August 17. The peak is important for many reasons, including that it drives the need for new power generation. Hawaiian Electric Company has to plan for enough generating capacity on its system to deliver reliable energy at the peak, plus taking into account enough reserves to cover planned and unexpected maintenance.

So HECO is making a lot of noise about conservation this October, along with other important contributors to Hawaii's Energy Future: renewable energy, improved technologies like combined heat and power and central station power.

"Let's remember that conservation in general - whether it's for power, water or recycling - can be a good way to save money, help the environment and do the right thing," says Mike May, president and CEO of Hawaiian Electric. "Communities should think of energy conservation as a resource option - a way that everyone can help Hawaii match its demand for power with the supply through wiser use. Commit to an action as small as using compact fluorescent light bulbs or as large as getting a solar water heater."

The Board of Water Supply has done a good job in getting the conservation message across. Backed by the threat of mandatory restrictions, the BWS has gotten most people on Oahu to save voluntarily, by watering and car-washing less, having to ask for water in restaurants and in other ways.

While electricity is like water in some ways (though not to be mixed with water, of course) it is a little more complicated to get people to conserve it. Most people take electricity for

granted and very few know how it is generated or transmitted to them. Flip a switch and it is there. We only notice electricity when it is missing - during an outage.

So HECO has its challenges in getting people to conserve. HECO has always encouraged customers to visit its website, www.heco.com, and go to My Home Energy Check. Using this online energy survey, you can analyze your home energy bill and get tips for saving money by conserving energy.

An even more sophisticated money and energy-savings program is available for commercial, institutional and governmental customers. They can also start at heco.com to get an overview of "EnergySolutions for Business" or by calling 94-POWER to get in touch with a Customer Solutions representative who can help with everything from advice to rebates.

But for the general public, awareness is the first key to conservation and October is when HECO has chosen to start really emphasizing the message.

LOCAL NATIONAL ENERGY AWARENESS MONTH ACTIVITIES

On October 16, HECO and Ala Moana Center will sponsor a major energy awareness and conservation event called "Live Energy Lite" at Ala Moana Centerstage. Hawaiian music by groups like Na Palapalai and Hoonua will be the main attraction, but the conservation message will come home in a variety of interactive displays and in-store exhibits on energy conservation.

Helping with the serious side of the message in a fun and funny way will be a group called, "The Mad Scientists," four Hawaii teachers whose crazy antics on stage will make learning science fun as well as interesting.

Other sponsors are the environmental organization Malama Hawaii, the state Department of Business, Economic Development and Tourism (DBEDT) and the U.S. Department of Energy (USDOE) and exhibitors along with HECO include the Board of Water Supply, The Gas Company and the University of Hawaii School of Architecture and the UH Sea Grant Center for Smart Building and Community Design.

As HECO Director of Education and Consumer Affairs Ka'iulani de Silva puts it, "We can all do more about conserving electricity without sacrificing safety or comfort. In fact, the best way to protect our safety, security and comfort for the future is by using energy - and especially electricity - more responsibly today."

"Hawaii residents are going to be hearing a

lot more about energy conservation from HECO. Everyone has a role to play and we can start doing it right away," she said.

On the more technical side, Hawaiian Electric Company is sponsoring the sixth biennial Energy Expo at the Sheraton Waikiki Hotel, on October 27-28. HECO hopes to attract 600 architects, engineers, designers and building operations professionals to this "Efficient Electro-Technology Exposition and Conference" with promises of double the exhibitor floor space and twice the classroom capacity of previous Energy Expos.

The two day event - co-sponsored by the State Department of Business Economic Development and Tourism, the U.S. Department of Energy, Rebuild America, and HECO's sister companies, Hawaii Electric Light Company and Maui Electric Company - is an excellent opportunity for businesses and organizations to learn more about current and future trends in energy efficiency. The Expo will feature over 60 exhibitors and more than 40 workshops conducted by nationally recognized speakers.

New workshops added this year include water conservation, waste disposal management, recycling, and renewable energy & sustainable projects, giving the flavor of the message that conservation and sustainability are growing ever more important. The Expo is also an opportunity for HECO to present the 2004 Energy Efficiency Awards to recognize local businesses and organizations for their innovative energy-efficient projects.

(More information is available at energyexpo.heco.com or by calling 543-4790 for a registration form. The fee is \$189 per person.)

There is more happening in October, including the third annual Astronaut Lacy Veach Day of Discovery at Punahou School on Saturday, October 30. Co-sponsored by HECO with the UH Space Grant Consortium and the Hawaii Science Teachers Association, this event open to all fourth through twelfth grade students, teachers, and parents is to honor the life and legacy of astronaut Charles Lacy Veach and encourage an interest in science.

So this October should be an Energy Awareness Month to remember. There will be a lot for interested people of all ages to take part in. Which event(s) will you be attending?

**2005 Engineer of the Year and
Young Engineer of the Year
nominating information on page 2.**

**HCES Lifetime Achievement Award
nominating information on page 2.**



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Additions and/or corrections should indicate the proper society, institution or association.

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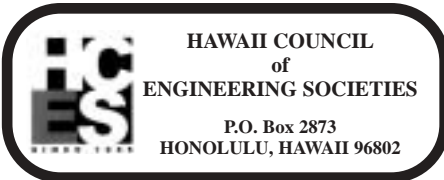
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2005 ENGINEER OF THE YEAR AND YOUNG ENGINEER OF THE YEAR AWARDS

In conjunction with the activities of Engineers' Week 2005, the Hawaii Society of Professional Engineers (HSPE) is soliciting nominations for the Hawaii Engineer of the Year and the Hawaii Young Engineer of the Year Awards. HSPE will evaluate candidates for both awards. The selected engineer(s) will be announced at the 2004 Engineers Week Banquet. Completed nomination forms and letters of support must be received no later than *Friday, December 17, 2004* at the following address (*electronic submittals only*):

Hawaii Society of Professional Engineers

c/o Manny Lanuevo
manny.lanuevo@hawaii.gov
 Phone: (808) 838-8804

Each candidate shall be nominated on the following basis:

Candidate for Engineer of the Year (Nomination Form not to Exceed 8 Pages)

1. Shall be current practicing Licensed Professional Engineer in the State of Hawaii;
2. Shall be current State of Hawaii resident;
3. Need not be a member of HSPE or any other society; and
4. Shall not be a State Officer or Director for HSPE.

Candidate for Young Engineer of the Year (Nomination Form not to Exceed 6 Pages)

1. Shall be 35 years of age or less as of Jan. 1, 2005;
2. Shall be a current practicing Licensed Professional Engineer in the State of Hawaii;
3. Shall be a current State of Hawaii resident;
4. Need not be a member of HSPE or other society; and
5. Shall not be a State Officer or Director of HSPE.

Electronic files of the respective nomination forms are available for your use – contact Manny Lanuevo at manny.lanuevo@hawaii.gov

Criteria for Selection of Young Engineer & Engineer of the Year Awards

1. 30% Technical Accomplishment
(Technical Awards, Papers & Presentations, Major Projects, etc.)
2. 35% Professional History & Contributions
(Positions Held, Professional Affiliations, Special Contributions to Profession & Special Recognition, etc.)
3. 20% Civic & Community Contributions
(Affiliations, Position Held, Special Recognition, etc.)
4. 15% Recommendation(s)
(Why the individual is nominated)
No more than 3 letters of support per candidate with maximum 2 page limit per letter.

Nominations for HCES Lifetime Achievement Award

Nominations are now open for the HCES Lifetime Achievement Award which recognizes the lifetime achievements of retired engineers. This annual recognition is given to an individual who has contributed significantly to the development of engineering in the State of Hawaii and who has made a noteworthy impact on the local engineering community.

The following criteria shall be applied when nominating a candidate who:

- Must be affiliated with an HCES member society as an active member;
- Must have lived and worked in Hawaii as an engineer/manager for at least 15 years;
- Should be 55 years or older at time of nomination;
- Must have taken retirement from public or private sector of employment; however, could be continuing employment or consultancy or other work after effective retirement;
- For entrepreneur who started his/her own company, the nominee should have actively handed over control of the company to a successor but could be in a position of involvement with the company;
- Has been retired for not more than four years;
- Posthumous awards may be made provided the nominee was an active of an HCES member society at the time of his/her passing away and fulfilled all the required criteria above.

The following criteria shall apply to the method of nomination:

- Any person belonging to any HCES member organization may nominate a candidate;
- Nomination must be accompanied by a citation that effectively highlights the engineers contributions with special emphasis on contributions to Hawaii;
- Include resume of candidate;
- Nominations must be received no later than December 17, 2004.
- Nomination package should be limited to 10 pages (letter size) and addressed to :

HCES Chairperson, Tony Lau
 c/o HCES Lifetime Achievement Award
 P.O. Box 2873
 Honolulu, HI 96802

Just to be nominated is already a worthy recognition. Please take the time and effort to nominate that much appreciated individual. For any questions, please contact Wayne Kawano at 848-7100 or email wkawano@ccpihawaii.org. Thank you & Mahalo!



P.O. Box 31218; Honolulu, HI 96817
<http://posts.same.org/honolulu/>

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Randy.Whitecotton@hickam.af.mil

TREASURER:

Lt Kristina McGee (PWC)USN
McGeeKE@navy.mil

2004 SAME Construction and Engineering Camps

2004 was a great year for the SAME construction and engineering camps. Two camps were held this year and the Honolulu Post was fortunate enough to be able to send a total of three high school students to the two camps. Through fundraising and the annual Honolulu Post golf tournament, the Post was able to pay for the students' registration fee and airfare to the camps.

Kevin Huwel, a junior at Saint Louis School, attended the camp at the Air Force Academy in Boulder, Colorado. The students were divided into six teams and had three tasks to complete during the week long camp. Perhaps the most rewarding activity was the task to build a shed. Two teams each per shed constructed a total of three sheds. One team was responsible for the framing while the second team was responsible for roofing the shed. Each completed shed was donated to Habitat for Humanity. Teams also constructed a concrete beam and tested it and designed an irrigation sprinkler system. Kevin said, "The SAME engineering camp, at the United States Air Force Academy, should be something every student applies for if they are interested in pursuing an engineering career."

Christopher Aguilar, a junior at Waimea High School on Kauai, and Ian Esaki, a junior at Punahou School, both attended the Navy Seabee camp at the Navy Construction Battalion Center, Port Hueneme, California. Upon arrival at Port Hueneme, students were assigned to a company who would be their team for the next week. Each company designed, constructed, and raced a cardboard boat, constructed a shed, erected a medium tent, and tested their construction skills in the Seabee Olympics. Students also got the chance to visit a local engineering firm and learn about soil types, took some leisure time to hike the hills of Ventura County, and visited the Seabee Museum. Christopher of Kauai even liked the galley's food, saying, "The food was great, I even gained four pounds from the port's galley." He went on to say that he "enjoyed the camp so much that I would like to



Presenting Brandon with the scholarship award during the August 20 luncheon hosted by Bonded Materials Company President, Jeff Deer.

U.H. Engineering Student Awarded Scholarship from Bonded Materials Company

Mr. Brandon Weaver, a junior at the University of Hawaii, College of Engineering, was awarded the 2004-2006 Eric N. Jacobsen Memorial Scholarship, the tenth in a consecutive series since 1996. This year's recipient will be receiving a two year scholarship plus a paid summer internship in the company's concrete quality control and testing laboratory, worth approximately \$12,000.

The scholarship was created in memory of Eric N. Jacobsen, a beloved and invaluable team member of Bonded Materials Company, who died suddenly in 1996. The purpose of the scholarship is to encourage and reward community involvement and academic excellence by engineering students. Bonded Materials Company is a diversified manufacturer and distributor of construction and concrete related building products, with sales offices in Honolulu, Kona, Guam, Saipan, Phoenix and Las Vegas.

Prior scholarship recipients include Lee Ann Shiroma, Stacie Saito, Jennifer Eng, James Cabigon, Aaron Small, Nicole Kikuchi, Timothy Goshi, Jason Seidman, and Renee Ishisaka.

try the Air Force camp next year."

The Honolulu Post looks forward to another successful year of sending students to the SAME camps. The Post would like to thank its numerous corporate and individual sponsors for this year's successful annual golf tournament allowing the Post to send three students to camp this year. For more information on the SAME camps please contact LT Greg Jennings at greg.jennings@navy.mil, 471-1170 x240.



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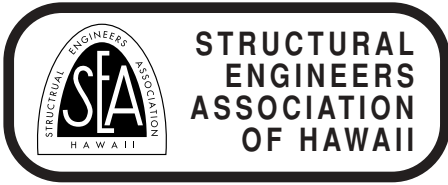
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- ✦ 2-3 years strong professional/investigative/managerial work experience desired
- ✦ 23-36 years of age
- ✦ Drug policy/drug testing mandatory
- ✦ Entry-level salary (GS-10) is \$45,735 Academy training: \$56,240 - \$61,045 upon graduation, including locality/availability pay



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Past Pres	Tom Tanimura	536-7692	537-9022

HIGHLIGHTS OF BOD MEETING

01 September 2004

Previous Business:

Reference Library: Randy Chu and Ibbotson Kellett spoke again with Rupert Chun (Mutual Welding Co., Ltd.) regarding the proposed structural steel reference library. Rupert has tentatively agreed that the structural steel library will include structural steel, stainless steel, and aluminum references. Tentatively, the structural steel library will be located at Ibbotson's office (Special Inspection Consultants) on Nimitz Highway. The membership may offer suggestions (wish list) of what reference materials they would desire to have in the library. The Board will probably send out a suggestion form to the membership for this purpose. The Board will then prioritize the wish list in order of importance. The ownership of the library materials will belong to the Steel Industry Improvement Fund of Hawaii and all SEA OH members will have access to all of the materials for reference purposes.

New Member Applications:

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

Jacky Tong, SSFM International, Inc., applied as an Allied member.

Lisa Minakami, SSFM International, Inc., applied as an Allied member.

Leilani Hirata, Nishimura, Katayama, Oki, Inc., applied as an Allied member.

Their applications will be voted on at the November Board Meeting. Please notify any SEA OH Officer prior to the November Board Meeting if you wish to comment on these prospective members.

2004 Calendar of Events:

Next BOD meeting: 06 October 2004, 4:30 p.m., at Shigemura, Lau, Sakanashi, Higuchi office.

October 07, 2004: General membership luncheon meeting at the Pagoda Hotel from 11:00 am to 1:00 pm to present the 2005 nominees for SEA OH Officers and Directors and a short presentation on fiber reinforced concrete by Mr. Cliff MacDonald, Director of Engineering of Forta Corporation.

January 29, 2005: SEA OH Installation of 2005 Officers and Directors at the Honolulu Country Club.



HAWAII CHAPTER

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 Web Page: www.lgsea.com

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 Sponsorship: Glenn Isidro
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 Specifications: Brent Uechi
 Website:

General Membership Update

The LGSEA Chapter Seminar on September 9th at Oahu Country Club was attended by over 60 engineers and contractors. Special thanks to G.W. Killebrew and Dietrich Metal Framing for co-sponsoring the event and generating interest for the seminar. Pat Ford, principal at Matsen-Ford Design in Milwaukee, WI, gave a four hour presentation on "The Design of Load Bearing Cold Formed Mid Rise Structures." He provided case studies complete with drawing details as a major part of the seminar. We received excellent feedback from the attendees, as they enjoyed the informative seminar in a wonderful setting. Mahalo to Secretary Will Wong for hosting the event. Dietrich also displayed slip and bypass clip connectors for curtainwall construction. We also received over ten new membership applications. For those interested in becoming a LGSEA member, we are currently extending the dues to include the remainder of 2004 and all of 2005 - a great value! Get the latest information in cold formed steel design and research from the source - become a member - please con-

tact any of the directors listed or register online at www.lgsea.com.

In other news, MetalCon 2004 will be held October 20-22 at the Las Vegas Convention Center. LGSEA will be having their 10th anniversary party at the conference. Please join us! Contact Howard Lau for more information.



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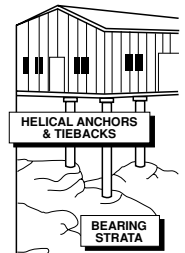
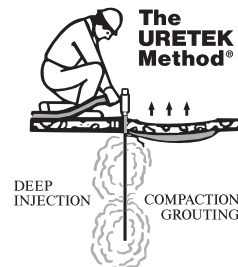
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OCTOBER DINNER MEETING-ANNUAL BANQUET

Program:

- 1) Installation of 2004-2005 ASCE Hawaii Section Officers.
- 2) Presentation of projects nominated for the 2004 Hawaii Section Outstanding Civil Engineering Achievement (OCEA) Award and presentation of the OCEA Award.

Date: **Thursday, October 14, 2004**

(NOTE: DATE CHANGE)

Location: Treetops at Paradise Park
Manoa Valley

Time: 5:30 p.m. - Social Time
6:30 p.m. - Dinner
7:30 p.m. - Program
9:00 p.m. - Adjourn

Menu: Multi-entree buffet

Cost: \$22.00 for Hawaii Section members
\$25.00 for non-section members and guests
\$11.00 for University of Hawaii at Manoa Student Chapter members

Please make check payable to (ASCE-Hawaii Section. Mail to Phillip Ooi, ASCE Treasurer, c/o Department of Civil & Environmental Engineering, University of Hawaii at Manoa, 2540 Dole Street, Holmes 383, Honolulu, Hawaii 96822, postmarked by Monday, October 11, 2004. Reservations for the dinner meeting to Phillip Ooi by Monday, October 11, 2004, by phone at 956-8512, fax at 956-5014, or email at *ooi@wilki.eng.hawaii.edu*.

EXECUTIVE COMMITTEE MEETING

September 9, 2004

2004 CALENDAR OF EVENTS (subject to change)

October 2004 - Annual Banquet

ASCE HAWAII SECTION AWARDS

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 establishing a second annual scholarship. 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 Horst Brandes at 956-8969, or at *brandes@wilki.eng.hawaii.edu*.

ASCE JOB LISTINGS

The following employers have openings they would like to fill:

Austin Tsutsumi & Associates, Inc. (Civil, Traffic/ Transportation, Environmental and

Surveying - Honolulu and Wailuku)

Board of Water Supply (Chief Capital Projects Officer - Honolulu)

CH2MHILL (Water Engineer - Honolulu)
Engineering Solutions, Inc.
(Civil/Environmental Engineers - Honolulu)

Fewell Geotechnical Engineering
(Geotechnical Engineer - Honolulu)

Fukunaga & Associates (Civil and Civil/Environmental Engineers - Honolulu)

Hawaii Pacific Engineers (Civil and Civil/Environmental Engineers - Honolulu)

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

Westaff (Maintenance Engineering - Hickam AFB, Hawaii)

Winzler & Kelly Consulting Engineers (Civil and/or Structural Engineering - Guam)

For more information on these job listings, please visit the ASCE Hawaii Section website at www.ascehawaii.org.

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

(continued on page 6)

ACI CONCRETE FIELD TECHNICIAN PROGRAM—GRADE I CERTIFICATION

Sponsored by the Cement and Concrete Products Industry of Hawaii

The ACI Certification Program for Concrete Field Testing Technician—Grade I is for the purpose of certifying concrete technicians who have demonstrated the knowledge and ability to properly perform the seven (7) basic field ASTM tests on freshly mixed concrete.

Session I (Practice Session only): Saturday, October 23, 2004, from 7:30 am to 11:30 am at Ameron Hawaii, Sand Island.

Session II (Examination only): Saturday, November 6, 2004, from 7:00 am to 1:00 pm (specific times to be announced). Location will be Ameron Hawaii, Sand Island.

Session I: Performance Practice session only (No fee)

Session II: Examinations only. Full Exam (written/performance) \$175.

Re-take for written exam only - \$100. Re-take for performance only - \$125.

Class size is limited to 15 people. Registration deadline is October 22, 2004.

For additional information or to register, call CCPI at 848-7100



ACI CONCRETE CONSTRUCTION INSPECTOR CERTIFICATION

Sponsored by the Cement and Concrete Products Industry of Hawaii

ACI Concrete Construction Inspector is a person qualified to inspect and record the results of concrete construction inspection based on codes and job specifications. The program covers inspection during preplacement, placement, and post-placement operations.

Workshop Review Class: November 6, 2004 (Saturday) from 8:00 am to 12:00 noon at the CCPI Conference Room

Exam Date: Saturday, November 20, 2004 (Saturday) 8:00 am to 12:00 noon at the CCPI Conference Room

Instructor: DUANE LEE
of Wiss, Janney, Elstner & Associates, Inc.

Registration Fee: \$400.00 includes ACI references/study guide and exam

For additional information or to register, call CCPI at 848-7100



KNOW YOUR ASCE HISTORY

by C.S. Papacostas

This month's article represents a milestone of sorts, because it is the 100th in the series that I began way back in March 1995. The topics covered have ranged far and wide, but, as a general rule, pivoted around Hawai'i nei.

Lately, the adventure took us from the construction of certain irrigation "ditches" on the Big Island at the turn of the 20th century to the intriguing story of importation and local production of portland cement.

The story led us to a point in August, 1960 when not one, but two major competing cement plants opened on the island of O'ahu: the "old" Hawaiian Cement Corporation's dry-process plant at Barbers Point and the Kaiser Permanente Cement Co. wet-process plant at nearby Nanakuli. At that time, the rated capacity of each plant exceeded the total consumption of the material within the newly admitted 50th State of the American Union. Naturally, the competition between the two plants was fierce.

Whereas "[Henry] Kaiser saluted the Hawaiian Cement Corp. and the competition that now exists," according to the Honolulu Advertiser (HA), in competing pronouncements, newspaper advertisements and other notices, the two companies sought to get the upper hand. Thus, reflecting on the 20-year or so near-monopoly enjoyed by its California parent company, one boasted that "Hawaii is built with Kaiser Permanente Cement" and the other retorted with "Building with Hawaii for Hawaii" ("Oke kukulu ana me Hawaii, no Hawaii") and with informing readers that it was "the only island member" of the prestigious national Portland Cement Association.

Curiously, however, sorting the copious notes I have amassed on the unfolding story, I came to realize that, on a broad outline, the two companies seemed to move as if in lockstep with each other. This, I am all but convinced, was more due to the similarity of their responses to the prevailing market and technological conditions and less the result of collusion that, as we shall soon see, on occasion, they were accused of carrying out.

A common temporary setback surfaced early on: The U. S. Bureau of Standards had a stringent quality control rule that required new plants to test each and every batch of cement intended for use on federal projects. This requirement did not affect many older mainland plants, including Kaiser's. So, until a "full test program" was implemented under the auspices of the U. S. Navy around March 1961, mainland U. S. cement was again imported in bulk.

By 1965 "cement and concrete," including many old and new products by old and new companies was recognized, according to the Star-Bulletin (SB), as the "biggest island manufacturing industry." Four years later, in 1969, both the renamed "Kaiser Cement & Gypsum Corp." and Hawaiian Cement announced plans to greatly expand their production capacities in response to rising demands precipitated by a construction boom. A staged expansion program continued into the mid-1970s.

In 1974, Hawaiian Cement also got a new name after the Cyprus Mines Corporation increased its ownership to 90.8%, having bought 45.4% from its partner in the enterprise, the American Cement Corporation, then known as Amcord, Inc. And this is how the "Cyprus Hawaiian Cement Company" came into being.



2003-2004 YMF OFFICERS

		Phone
President	Jamie Hikiji <i>jhikiji@ascehawaii.org</i>	521-3051
Vice-Pres	Paulette Chang <i>Hawaiiymf@yahoo.com</i>	781-1187
Secretary	Scott Jennings <i>sjennings@rci-group.com</i>	845-8440
Treasurer	Geoff Ries <i>gries@wilsonokamoto.com</i>	946-2277
Stud Chap President	Ronald Malalis <i>malalis@hawaii.edu</i>	956-5808

2004-2005 YMF OFFICERS

		Phone
President	Paulette Chang <i>Hawaiiymf@yahoo.com</i>	781-1187
Vice-Pres	Scott Jennings <i>sjennings@rci-group.com</i>	845-8440
Secretary	Florence Ching <i>fching@ascehawaii.org</i>	472-1342
Treasurer	Laura Smolinski <i>Smolinski001@hawaii.rr.com</i>	382-7174
Student Chapter President	Jesse Elliot <i>Elliotj@hawaii.edu</i>	956-5808

Next YMF General Meeting

The next two YMF general meetings are scheduled for Tuesday, October 5, 6:00 p.m., at Ryan's Grill in Ward Center, 591-9132; and Tuesday, November 2, 6:00 p.m., at Tiki's Grill & Bar at the Aston Waikiki Beach Hotel Second Level, 2570 Kalakaua Ave., 923-TIKI. If you are interested in attending to find out what the YMF is all about and how much fun we have, please call Paulette Chang at 781-1187.

YMF July Community Service Project - ASCE Hawaii Section YMF Stencils Storm Drains Near Ala Moana Shopping Center To Prevent Pollution

By Eric DeRuyter, Hawaii Section YMF Community Activities Chair

On Saturday, July 31, 18 members of the American Society of Civil Engineers, Hawaii Section Younger Member Forum (YMF) and ASCE University of Hawaii (UH) Student Chapter volunteered their time and energy to stencil over 50 storm drain structures in residential and commercial areas near Ala Moana Shopping Center. After the work was completed, the volunteers enjoyed a barbeque picnic at Ala Moana Beach Park sponsored the Hawaii Section YMF.

Storm Drain Stenciling is a volunteer pro-

In October of the same year, the State's Department of Planning and Economic Development (DPED) convened special hearings at the behest of then Governor George Ryoichi Ariyoshi to investigate the soaring prices that the two competitors were charging new customers. The state characterized the two as constituting a "shared monopoly" and accused them of engaging in "inflationary profiteering."

As expected, the accused offered alternate explanations.

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

gram sponsored by the City and County of Honolulu. The program was established to educate the community about the impacts of dumping pollutants into storm drain structures and the effect it has on our reservoirs, streams and eventually our ocean. Volunteers stencil the City's "Dump No Waste - Goes to Ocean" fish logo onto the storm drains to inform residents as to where their litter will eventually end up. City representative Gerald Takayesu gave a short presentation to the volunteers about the program and instructions on how to stencil the storm drain structures.

Joint activities between the Hawaii Section YMF and the UH Student Chapter allow the younger members to ease the transition of the student members into the working world by sharing experiences with them and offering advice as they seek summer employment or employment after graduation.

The Hawaii Section YMF generally organizes community service projects every other month. The Hawaii Section YMF also sponsors social, professional, sporting and other miscellaneous activities. For information on future Hawaii Section YMF activities, please visit the Hawaii

(continued on page 7)

ASCE, (continued from page 5)

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.

MEMBERSHIP RENEWAL

From this month's member data, ASCE has dropped any member not renewing their membership for fifteen (15) months. These members, who have not paid their 2003 dues, will no longer be included in our membership counts or on our membership data. This will greatly affect the standing of our Section, since standings are based on total membership. The total membership consists of new and retained members. If you have let your ASCE membership lapse and have not renewed, you may have been affected by this. Please contact our membership chair, Lori Nishida, at 533-3646 or lnishida@atahawaii.com for further information.

CONVERTING TO ELECTRONIC VERSION OF WILIKI

If you would like to help the ASCE Hawaii Section reduce operating costs by receiving your monthly issue of the Wiliki via e-mail, please contact Joanna Seto at 522-7426 or e-mail her at jseto@ascehawaii.org.



Lori Nishida, Paulette Chang and Jonathan Murai stencil a catch basin with the City and County of Honolulu's "Dump No Waste - Goes to Ocean" fish logo.



PO Box 12204 Honolulu, HI 96828
website: www.eaauh.org

2003-2004 OFFICERS

President: Bryce T. Yonemura 473-8000 x2456
Vice Pres: Kelli Goodin 441-3600
Secretary: Ryan Sugamoto 956-3357
Treasurer: Marian Nakama 836-1900 x234
Directors: Lloyd P.C.W. Lee
Michael Y. Magaoy
Randolph H. Murayama
Wayne H. Nakamura

President's Message

Welcome on behalf of the 2004-2005 Engineering Alumni Association University of Hawaii (EAAUH) Executive Board. With our recently completed annual golf tournament, we were once again able to award 6 scholarships to incoming freshmen to the College of Engineering. We thank the Alumni for their continuing support and look forward to another successful and fun-filled year for the College.

Kelli Goodin, EAAUH President

Engineering Day

The College of Engineering hosted E-Day on September 25. Each year high school students are invited to visit the College's facilities in an effort to encourage enrollment with the engineering program at UH.

EAAUH Website

Please visit our website at www.eaauh.org for pictures of the EAAUH golf tournament, information on events, job listings and EAAUH news.

ASCE YMF, (continued from page 6)

Section YMF website at www.ascehawaii.org/ymf.html or e-mail their Community Activities Chair Eric DeRuyter at eric.deruyter@tetrattech.com.

Incoming and Outgoing YMF Officers and Committee Chairs

Much thanks and gratitude goes out to those YMF members who voluntarily provide their time enabling the Hawaii Section YMF to provide activities and services for its members and community.

INCOMING 2004-2005 YMF Officers and Committee Chairs

President: Paulette Chang
Vice President: Scott Jennings
Secretary: Florence Ching
Treasurer: Laura Smolinski
Stud. Chapter President: Jesse Elliot

YMF Committee Chairs

Community Activities: Aaron Kam
Social Activities: Morgan Branch,
Sherrie Lum and
Lisa Takushi
Awards: Ann Mukai
Student Relations: Chris Souza
PE Refresher Course: Lorna Heller
Newsletter: Lori Nishida
Webmaster: Joanna Seto
Job Shadowing: Chris Souza

ASCE Job Classified

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



2003-2004 OFFICERS

Office	Name	Phone	Fax
President	Cathy Leong	946-2277	946-2253
Vice Pres	Susan Uejo	521-5361	538-7819
Secretary	Pierson Koike	527-6989	521-2501
Treasurer	Fred Smoot	841-7617	833-6125
Past Pres	Richelle Suzuki	541-2530	541-2700

Annual Meeting Highlights

The Hawaii Section Annual Meeting was held on August 17, 2004 at the Wisteria Restaurant in Honolulu. President Cathy Leong presented Certificates of Appreciation to the outgoing officers and committee chairs. Tellers Robert Miyasaki and Panos Prevedourous announced that based upon a tally of the votes received for the 2004-2005 elections, the following were elected as the incoming officers:

Wayne Yoshioka, President
Greg Hiyakumoto, Vice President
Jodi Chew, Secretary
Robert Nehmad, Treasurer

The featured speaker was Abe Wong, Hawaii Division Administrator for the Federal Highways Administration (FHWA). Mr. Wong explained that there were three factors that were critical to the success of FHWA's program: money, stewardship, and partnership. With regards to money, FHWA is a \$30 billion program nationwide, of which, Hawaii has traditionally received approximately \$120 million per year. Currently, the FHWA program is in a transition period since their previous six-year authorization, TEA-21, expired last year. Since then, they have had several extensions to bridge the gap until their reauthorization. However, the Senate and the House have not yet agreed upon a reauthorization budget amount and their current proposals, SAFETEA in the Senate for \$324 billion over the next six years and TEALU in the House for \$275 billion over the next six years, exceed the budget that the Administration is willing to approve (\$256 billion). With regards to stewardship, Mr. Wong stated that FHWA needs assess how well they are spending their money, what value they are receiving for their money, how well they are meeting the public's needs, and how their progress should be judged. With regards to partnership, although FHWA originally part-

nered only with the Department of Transportation (DOT), they have been partnering with more diverse groups in recent years (Environmental Protection Agency, Department of Health, interest groups, etc.). Mr. Wong then spoke about safety and ITS and how these two topics relate to the three aforementioned factors.

October Meeting Announcement

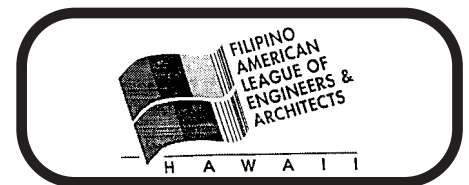
The October Section meeting date, location, and guest speaker will be announced at a later date. Meeting notices are forthcoming.



http://www.geocities.com/hals_us

Officers for 2004

President	Kevin Kea
Vice-President	Erik Kaneshiro
Secretary	Dennis Chong
Treasurer	Stacey Kimura
Director	David Hatchell
Director	Joanne Williamson
NSPS Governor	Pat Cummins
Past President	Layton Nakao



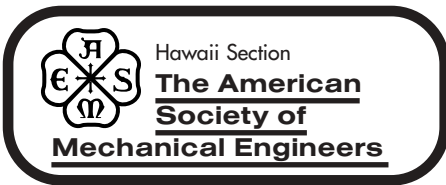
P.O. Box 4135, Honolulu, Hawaii 96812
Website: <http://www.falea.org>

2003-2004 OFFICERS AND DIRECTORS

President	Marites C. Shoji
Vice-Pres/ Pres.-Elect	Greg Garcia
Secretary	Andrea Benitez
Treasurer	Vergel Del Rosario
Asst Treas	Maria Domingo
Bus. Manager	Armando Ines
Auditor	Marcelino Labasan
P.R.O.	Fred Quibol
Directors	Marlo Garcia, Rocky Marquez, Elvi Pineda, John Ramos, Joey Resurreccion, Jun Suela, Segundo Velasco



The Hawaii Section YMF and University of Hawaii storm drain stenciling volunteers.}



Website: www.sections.asme.org/hawaii

ASME-HI 2004-2005 Officers

Chairperson	Raymond Liu	521-3777
Vice-Chair	LCDR John Markowicz	484-9164
Secretary	Sam Gillie	543-4737
Treasurer	Rodney Krienke	373-2916
Dir 1 yr	Ron Flegal	455-0254
Dir 2 yr	Chester Kaitoku	527-6063
HCES Rep	James Grogan	254-2947

BBBHAWAII SECTION GENERAL MEETING

Date: Tuesday, October 12, 2004

Time: 5:30 p.m. to 7:00 p.m.

Place: Hawaiian Electric Company, Inc. Ward Avenue Cafeteria

Program: Planning for the 125th Anniversary of ASME

This meeting is open to any ASME member who is interested in participating in the planning for the ASME's 125th Anniversary. Members are encouraged to attend.

For the 2005 celebration, ASME has three days highlighted. They are Founders Day (February 16, the day more than a century ago 80 engineers, industrialists, educators, ship-builders and inventors gathered at Stevens Institute of Technology to establish ASME), Boiler Code Day (March 12, the day in 1915 when the Boiler Code became an official ASME document), and Heritage Day (April 7, the day that the first formal organizational meeting was held at Stevens Institute of Technology).

ASME Sections are encouraged to host an open house or reception inviting its members and guests. These events can be supported by anniversary videos and ASME memorabilia. ASME provides celebration ideas at the website www.asme.org/anniversary/involved.shtml.

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.

RECOGNITION OF 25, 50 YEARS AND LIFE MEMBERS

Congratulations to the following ASME members of the Hawaii Section who during the 2003-2004 membership year have achieved 25 years, 50 years of membership, or who have achieved the Life Membership status. They are Stephen C. Green, Chief Field Engineer of West Hawaii Utilities, 25 years; Tyrus I. Kagawa, Project manager at Oahu Plumbing & Sheetmetal, 25 years; Timothy P. Martin, 25 years; Robert Spilker, Retired, 25 years; Robert B. Faus, Retired, 50 years; Alan Mefford Retired, 36 years, Life Member; Edward T. Narimasu Retired 36 years – Life Member; and Peter N. Taylor, President of Peter N. Taylor Inc., 36 years, Life Member.

ASME-HI is planning a recognition meeting to award the certificates and Lapel Rockers.

YOUNG ENGINEERS PROGRAMS

Additional programs encouraging young engineers include "New Faces of Engineering" and the "FasTrack."

"New Faces" will strive to promote the accomplishments of young engineers by highlighting their engineering contributions and the resulting impact on society. This campaign is designed to enhance and improve the image

of engineering. National Engineers Week will profile the top Young Engineers.

The "FasTrack" (e-zine) is emailed to early career members (previously known as young engineers). It provides quick online access to what's new and current in professional and technical resources including highlighting featured member benefits and enhancements. It also features a special section called "Q&A with Experienced Engineers (Five Career Questions Asked)." The idea is to feature an engineer each month responding to the same questions that may be helpful to early career members.

THE DEPARTMENT OF MECHANICAL ENGINEERING NEW FACULTY

Dr. Bruce Liebert announced that four new Mechanical Engineering Professors have joined his department. They are John Allen, PhD. University of Washington, Thermofluids; Peter Berkelman, PhD. Carnegie Mellon University, Robotics and Controls; Lily Laiho, PhD. Massachusetts Institute of Technology, Mechanics and Design; and Weilin Qu, PhD. Purdue University, Thermofluids.

ASME-HI welcomes these new outstanding educators and look forward to meeting them.

ANNUAL PEARL HARBOR BOAT TOUR

For most tourists visiting from the mainland or Japan, the itinerary of places to see include the world famous Waikiki beach, Hanauma Bay and, of course, the Arizona Memorial. But with the 3rd anniversary of the attacks on the World Trade Center behind us, tourists and local visitors of the Arizona Memorial are ever so reminded of the freedoms that we enjoy today because of the soldiers who made the ultimate sacrifice, and those brave men and women currently serving in our armed forces. Thus, it was a great honor for some of our ASME Hawaii section members to participate in the annual Pearl Harbor Boat Tour held on September 9, 2004. This private tour was conducted by Mr. Stanford Yuen, P.E., ASME-HI Past-Chairman, and was free of charge. Attendees from the ASME-HI section include Jay Higashi and his five year old son Ryan, and Chairman Raymond Liu. In addition, other attendees include members of the St. Louis Alumni Association, the American Society of Civil Engineers, and members of various Chinese benevolent societies. In all, there was an attendance of over 100 people.

The tour began at 4:00pm and included an educational narration by Stanford Yuen of Ford Island and Pearl Harbor, highlighting major features of the December 7th attack; Ford Island Bridge; the role that the Pearl Harbor Naval Shipyard & Intermediate Maintenance Facility plays in the Pacific; Fleet & Industrial Supply Center (FISC); Submarine Base; Active & Mothballed Ships; Historic Sites (Hospital Point); Housing; close-up of the Battleship USS Missouri; and memorials USS Utah and USS Arizona.

Additional points of interest included West, Middle and East Loch shoreline as well as the Waipio and Pearl City Peninsula. But the highlight of the tour was the private visit to the USS Arizona Memorial. It gave the visitors a chance to observe the remains of the sunken hull of the USS Arizona and Memorial Wall with all the names of the sailors who perished and those still entombed within the sunken hull.

The tour ended at 5:30pm and was enjoyed by all and reminded us all that our freedom that we enjoy is not "free" and we should not take it for granted.

ASME-HI would like to thank Mr. Stanford

Yuen, P.E. for reserving limited amount of seating to the section membership and providing an excellent narration of the tour.

FUTURE ACTIVITIES

Several tours and meeting speakers are being planned. Also visit the ASME-HI website for more information.



www.sfpehawaii.org

OFFICERS

President	Melvin K. Harano, P.E.	848-6966
	<i>email: harano@thermaleng.com</i>	
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Secretary	Mark Gouveia, P.E.	521 3773
	<i>email: mgouveia@cdoca.com</i>	
Treasurer	Samuel S. Dannaway, P.E.	526-9019
	<i>email: sdannaway-ssda@hawaii.rr.com</i>	
Past Pres	Robert Lohaus, P.E.	833-4095
	<i>email: lohausebob@hawaii.rr.com</i>	
Directors:	Michael J. Orlowski	474-3819
	<i>email: orlowskim0@pwcpearl.navy.mil</i>	
	Robert M. Miller, P.E.	951-7215
	<i>email: fpehi@hawaii.rr.com</i>	
Webmaster	Derick Kam	
	<i>email: kam@thermaleng.com</i>	

1. Upcoming Hawaii SFPE Seminars - dates to be determined probably 1st and 2nd quarter 2005

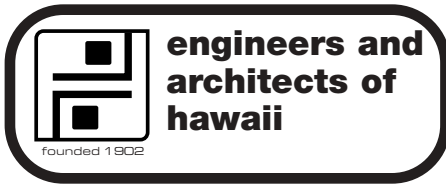
FIRE DYNAMICS SIMULATOR - Computational Fluid Dynamics fire model HUMAN BEHAVIOR IN FIRE

2. Society of Fire Protection Engineers (SFPE) Supports the Fire Sprinkler Incentive Act of 2003

Society of Fire Protection Engineers (SFPE) has announced their support for the Fire Sprinkler Incentive Act of 2003. The bill is assigned to the House of Representatives' Ways and Means Committee (H.R. 1824). Currently, there are over 110 Democratic and Republican co-sponsors for this legislation. Passage of this legislation would modify the current federal tax code to classify fire sprinkler systems as five year property for purposes of depreciation.

This would allow building owners to depreciate the cost of a sprinkler system over an accelerated schedule that would allow cost recovery in a much shorter time frame than offered by the current tax codes.

"The installation of a fire sprinkler system in a building significantly improves the chances of survival in a fire. Unfortunately, because there is a cost to install these systems, building owners may be reluctant to retrofit their facility with an automatic fire sprinkler system" said, Kathleen Almand, P.E., FSFPE, at the SFPE. "The incentives that are provided in the Fire Sprinkler Incentive Act will motivate building owners to install these life saving systems." By providing tax incentives, this legislation will promote the installation of fire sprinkler systems in new and existing buildings. Consequently, passage of this bill should lead to a reduction in the economic and human losses from fire in the United States. For more information on the Society please visit www.sfpe.org.



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

OFFICERS FOR 2003 - 2004

President: Martin McMorrow
1st V.P.: Bob Morrissey
2nd V.P.: Gary Yamamoto
Treasurer: Ralph Dobson
Secretary: Sam Gillie
Director: Mary Ellen Nordyke-Grace (2 year term)
Ron Boyle (2 year term)
August Ahlf

EAH October Programs

October Program Chair Brian Kang

Friday Oct 1st Speaker: **Mike Rettig, ENPRO Environmental**, Title: "Mold & Moisture - Prevention & Response"

Friday Oct 8th **NO MEETING** - in honor of Columbus Day

Friday 15th Speaker: **Fred Nakama, Hawaiian Electric Company**, Title: "UV Light for Coil Maintenance"

Friday Oct 22 Speaker: **Ron Tolleson, Queens Hospital**, Title: "UVC's and their ability to kill infectious diseases"

Friday Oct 29th Speaker: **Jan Ventura, Air Reps Hawaii**, Title "UVC"

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.

Meeting Notes for Friday Meeting Aug 6, 2004

SPEAKER: Tit Mun Chun - Chairman - Hawaii State Financial Services LLC
SUBJECT: "How to Evaluate Your Stocks"

Tit Mun's advise is summarized as follows:

- Investors can make big returns in their portfolio by picking the very best growth stocks at the correct time if they use good sell rules to lock in their gain.
- Stocks are worth something only in so far as they produces free cash flow, for which the best proxy is it's earnings.
- The reference point in investment galaxy is

the 10-year Treasury bond yield which today is 4.22%

- When the forward earning yield for the stocks are equal or higher than the 10-year bond yield, stocks are no longer grossly over valued. When the bond yield is a lot higher than the stock yield such as in the 1999 and 2000 the stock will go down.
- Individual stock value depends on earning yield, which is the inverse of the price-earning ratio (PE). A stock trading at \$80.00 and earning \$8.00 a share yield 10%; and if the stock rises to \$160.00 the yield drops to 5%. Obviously, the higher the yield the better the investment.
- Remember, it is the future earnings that matters, not the past earnings, although the past may give you a good indication what will happen in the future. For example, Hawaiian Electric Industries (HE) is selling about \$25.45 with a trailing PE of 18 or a earning yield of 5.6% but it's forward PE is 16 so that it's earning yield is 6.3% and since the 10 year bond is 4.22% the stock is considered not overvalued. You can do this for yourself by using the forward PE's as they appear weekly in the Honolulu Star Bulletin every Tuesday's evening paper.
- Generally the lower the PE the higher the expected return. Two Seattle University professors, Ruben Trevino and Fiona Robertson studied the relationship between PE and return from stocks. They came up with a simple formula to estimate how equity investments will grow: Multiply the PE by 0.57 and subtract from 20.67 and you will get the annual average return for the next five years. A PE of 10 will give you a 14.97% annual average return, and a PE of 20 will give you a 9.7% return, and a PE of 30 will give you 3.57% and a PE of 40 will give you a negative return of 2.13% return.
- If we apply this to HE using f forward PE of 16 the expected annual average return for the next five years = $20.67 - 16 \times 0.57 = 11.55\%$. So if you are satisfy with a 11.55% annual average for the next five years HE may be a worthwhile buy at \$25.45.
- Just remember that I am not recommending any stock to buy or sell as I am not a financial advisor I only tell you about strategies that you can use to evaluate a stock. If you want to know what to buy or sell go see my financial advisors Gene Tani or Rose Greenwell at Hawaii State Financial Services LLC. Call for an appointment at 5213700. Don't call me as I am only the figurehead.

Friday Meeting Aug 13, 2004

SPEAKER: Mary Arakaki, Castle Hospital
SUBJECT: "Eating for Longevity"

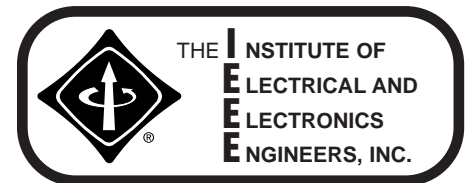
Mary Arakaki from Castle Hospital's Medical Center's Wellness and Lifestyle Medicine Center presented their Healing Foods Forum.

Mary explained that our life spans over the last 100 years have gotten up to 86 years. It is argued that our life spans could be as high as 120 to 150 years with proper diets. She provided handouts for "Juicing for Wellness and Longevity" from Jay Kordich's Juicy Recipes as well as providing recipes for Anti-Aging Vita-Mix Beverage, Beet and Broccoli Juice (which has cancer-preventing properties), Citrus Immunity Booster (which boosts the immune system), Anti-Aging Longevity Spa Muesli, Mixed Salad Greens with Sweet'n Spicy Tofu, Asian Long Life Noodles with Bok Choy in Sauce, Two Immortals Rendezvous at the Peach Garden (Walnut Stir-Fried with Two Kinds of Mushrooms) These recipes will be posted to EAH's WEB site for reference.

Friday Meeting Aug 27, 2004

SPEAKER: Dr. Pan Yucheng, Earth Tech
SUBJECT: "Prospecting for Gold in China"

Dr. Yucheng gave a good introduction into how to prospect for gold. How to tell the difference between Fools Gold and real gold, where to look for gold and how to recover gold. He explained that because gold is very heavy it settles out of soil when water displaces soil. That is why gold was often found in stream beds. He advised to look for stream beds that have smooth rounded rocks, because that is an indication that the river bed is old and has had sufficient time for the gold to have settled out of the soil. He also said gold is found in quartz, which traps the gold in its structure. Most of the world's gold come from the mines in South Africa, followed by Russia. He explained that gold is produced from volcanic activities, but unfortunately the type found in Hawaii's big island.



IEEE Hawaii Section

P. O. Box 37607 Honolulu, Hawaii 96837
Email: sec.hawaii@ieee.org
Web Page: <http://community.hei.com/ieee/>

2003 HAWAII SECTION OFFICERS:

Chairperson:	Grant Torigoe (torigoe@ieee.org)	833-8889
Vice Chair:	Mark Rognstad, (mark_rognstad@ieee.org)	956-8712
Sec/Treas:	Alison Lee (al.lee@care2.com)	224-9723
Past Chair:	Oscar Libed (oscar.libed@ieee.org)	441-8567
Past Chair:	Norm Kawachika (normk@ieee.org)	531-1308
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