

wiliki o hawaii



ENGINEER
OF HAWAII

VOL. 39 NO. 1

SERVING 2000 ENGINEERS & LAND SURVEYORS

JUNE, 2003

HOMELAND SECURITY CONCERNS

FEBRUARY 2003 MEETING HIGHLIGHTS

At the February 17, 2003 ITE meeting, the guest speaker was Mr. Anthony Gelish, an Associate with Booz Allen and Hamilton. He is currently working on the Critical Infrastructure Protection/ Homeland Security development effort for the Pacific Command, Command Surgeon's office at Camp Smith. Mr. Gelish identified the Presidential Executive Orders that led to the establishment of the Homeland Security office in 1998, or prior to the September 11, 2001 events. All the information Mr. Gelish presented at the meeting was from public sources.

Mr. Gelish explained that the terrorism is defined as politically motivated, pre-meditated violence against non-combatants (civilians) to influence people – it changes behaviors, as evidenced by the higher security at our airports. If military soldiers attack soldiers in another country, then it is defined as war. Terrorists are considered to be socio-paths and display anti-social behavior.

About 85% of infrastructure is in the private sector and the remaining is controlled by the public sector. Thus, protection of our infrastructure requires close working relationships between the federal, state, and county governments and the private sector. A major issue is that the military is prohibited from participating in civil law action. The military cannot enforce the state or federal laws unless they are doing it at the direction of civilian governmental authorities. Hence, a new paradigm is needed as a new level of cooperation that has not previously existed is required to protect our infrastructure. Also, the separation between the US Department of Defense (DOD) enforcement responsibilities as a war-fighting unit and the civil responsibilities for law enforcement must be maintained. The DOD has always been and will continue to be responsible for Homeland Defense if our country is attacked. With the establishment of the Homeland Security office, there is a heightened national responsibility to anticipate and identify vulnerabilities and find mitigations to prevent terrorist attacks.

For the transportation facilities, the ability to transport people or cargo may be affected if damaged, but there may be greater economic impact on the telecommunications industry. Some railroads on the East Coast receive more money for leasing their rights-of-way for fiber optic cable than hauling people or cargo. As an example, when a train crashed and a fire burned in a Baltimore tunnel about two years ago, it damaged a large cable bundle and caused the failure of several large servers and disrupted the telecommunications system in the Northeast region. Although the newspapers did not report this consequence, it showed vulnerability in the telecommunications

industry. Many bridges may also have fiber optic cables attached to them.

When airport runways are blocked by natural or other disaster, then there may be difficulties in providing emergency assistance. For instance, when Kauai lost power because of Hurricane Iniki, DOD delivered a very large electrical generator on a C-5 airplane. However, there was no equipment that could unload the large generator at the airport. Also, the plane could not take off with the generator on board because the runway was too short. The plane was too heavy to park on the asphalt tarmac. The only place they could park the plane was on the concrete runway, however, it meant the only open runway was blocked. Fortunately, some resourceful National Guardsmen took telephone poles and palm trees and used them like rollers; they pulled the generator out of the back of the C-5 plane with humpvees and the empty plane could depart from Kauai.

Many harbors have only one entrance and one exit with no back-up access. Also, the vulnerability of fuel systems at harbors should be examined.

Damage on the highway system could have a significant impact. For Oahu, a traffic simulation of a damaged overpass in the vicinity of Halawa Interchange resulted in the highway system shutting down within 75 minutes. (For residents living on the westside, this is not a surprising finding since accidents affect regular commuting traffic conditions in a similar way.)

Possible sources of information that terrorists could use to plan attacks:

1. Press releases about executive's families when promoted, etc.
2. Emergency/disaster plans, especially those that identify weaknesses and protective measures.
3. EIS are public domain and contain a lot of detailed project information.
4. Vendor contractor/consultant information may identify company information or methodology.
5. Visitor tours of site facilities allow strangers onto the site.
6. Process/system information – how things are operated or maintained may be detailed in public forums.
7. Design plans on the website – convenient for design firms or construction contractors, but may show too much detail.

Risk Mitigation to less possibility of attack:

1. What cannot be identified, can not be attacked. Watch for website information that show your vulnerabilities.
2. What is not known can not be used. (Do not place executive's personal information on a website.)

3. Monitor for suspicious activity.
4. Vehicle travel and package delivery (packages should be held at a single site for inspection).
5. Let people know there is security – increase awareness of your security measures makes you less vulnerable.
6. Shred all documents with personal information, including email printouts.



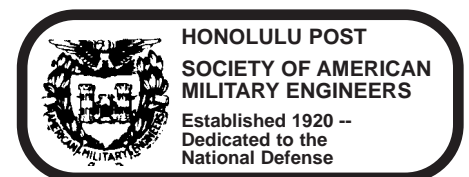
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Secretary	Susan Uejo	521-5361	538-7819
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Past Pres	Wayne Kawano	833-1882	833-6125

JUNE 2003 MEETING NOTICE

Speaker: Rick Stack, A&B Properties, Inc.
Date: Tuesday, June 17, 2003
Time: 11:45 AM
Place: Wilson Okamoto Conference Room
1907 S. Beretania Street, Suite 400
Topic: Current and Future Developments by A&B
Cost: \$8.00 for members/guests and \$5.00 for students

Please call Susan Uejo at 521-5361 or send email message to suejo@beltcollins.com by noon, Wednesday, June 11, 2003 to make your reservations. Payment will be collected at the meeting.



P.O. Box 31218; Honolulu, HI 96820.
www.same.org/honolulu

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

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ENGINEERING SOCIETIES**

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STATE OFFICERS for 2002-2003

President	Mr. Scott Seu P.E.
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Secretary	Mr. Alva Nakamura P.E.
Treasurer	Mr. Kenneth Rappolt P.E.
Past President	Mr. Kirk Tanaka P.E.
National Director	Mr. Bruce Witcher P.E.

STATE CONFERENCE CALL MEETING

May 13, 2003

July 2004 NSPE Annual Meeting Update:

Ken Rappolt reported on the upcoming NSPE Annual Meeting in Honolulu. He indicated that contact was made with Hawaii Visitors Bureau, Mac Farms, Maunaloa Mac Nuts, and the Maui Visitors Bureau for items to be taken to the upcoming July 2003 meeting in San Antonio in helping to promote Hawaii. The exhibit will be only open for 4 hours per day for two days. Ken & Marion Rappolt, Peter Boucher, Clyde Nagata, Curtis Beck and Eric Yamashige will be in attendance.

June 2003 Installation of Officers:

The itinerary for the upcoming Installation of Officers was discussed as well as the itinerary for the visiting Blitman's. NSPE President Howard Blitman and wife Maureen will visit the island chapters to install the officers and address national, state and chapter issues. The HSPE State Board Meeting will be held at 9:30AM Saturday morning at the King's Grill in Waikoloa. Members are encouraged to attend the installations. Visit the website for information. Kirk Tanaka reported that as of meeting time, no nominee for 2nd Vice President has been made. Ken Rappolt was then nominated to be the 2nd VP with Nancy Burns to be Treasurer. This was followed by a lengthy discussion on how to improve participation. It was decided that the ballots for this year's election will be posted on the Web Site with the exception of Maui. Maui's ballots had already been sent out via e-mail.

September 2003 Western and Pacific Region Meeting Update:

Gary Ashikawa will follow-up on the planning status for the meeting in Kona.

Education Committee Report:

Sheryl Nojima reported that some of the schools will hold ceremonies to present awards. She would like to know if any of the chapters would like to follow up with the schools on each respective island to make the certificate presentations. If not certificates will be sent out by June 6 to the recipients. Certificates will be issued instead of checks based on guidelines, with check distribution upon confirmation of registration in an ABET/EAC accredited college of engineering. Sheryl nominated Scott Seu as Education Chairman for next year. Scott stated that in 2003-2004, he plans to issue a written guidelines as it relates to how education fund should be administered, in accordance with requirements for tax-exempt foundations. It was also reported that the Honolulu Chapter will be holding an installation luncheon and request to allow the education fund to pay for 7 lunches for those that helped to raise funds, and recognition of state MathCounts representatives.

P.E. Position Loss in County Government:

Peter Boucher reported a continued loss of P.E. Positions in County Government. He suggested that we have some kind of coordinated game plan to handle this to make some recommendations. He will spearhead this effort during his presidency.

Endorsement of NSPE President Elect Candidate:

Eric Yamashige requested endorsement of Katheryn Grey for NSPE President Elect, 2004-05. Board of Directors approved the endorsement. Eric will draft a letter which will be signed by the President.

Registration Certificates:

Discussion was held on the current registration certificates which are issued to newly registered engineers. There is some dissatisfaction with the current certificate's appearance. Scott was of

the opinion that the additional cost of a better certificate should be borne by the State. The State could raise the application fee to cover the cost of the improved certificates. Eric thought that it was OK for the chapter to contribute for the cost of the certificate. Other members of the Board thought that the certificates were adequate. If an individual wants a better certificate, they should pay the additional cost.

HCES Participation: Sheryl volunteered to be the HCES representative with Ken Rappolt as the alternate.

See Maui Chapter Report on Page 4



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website: www.eaauh.org

OFFICERS

President:	Jamie T. Hikiji	521-3051
Vice-Pres:	Bryce T. Yonemura	473-8000 x2456
Secretary:	Marian Nakama	836-1900 x234
Treasurer:	Kelli Goodin	441-3600
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2003 ANNUAL GENERAL MEETING

Please join us for the Annual General Meeting, coming up this month. Our guest speakers will be Ted Liu, Director of the State Department of Business, Economic Development and Tourism (DBEDT), and Maurice Kaya, Chief Technology Officer of DBEDT. Also on the agenda is the election and installation of the 2003- 2004 EAAUH officers.

Date: Wednesday, June 18, 2003
Time: 11:30 a.m. - No-host cocktails
12:00 p.m. - Lunch
12:30 p.m. - Program
1:30 p.m. - Adjourn
Location: Honolulu Country Club
1690 Ala Puumalu Street
Menu: Buffet
Cost: \$20.00 for members and guests
(to be collected at the door)
Make checks payable to:
Engineering Alumni Association

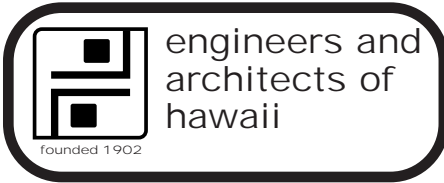
To reserve a seat, contact Carrie Matsuzaki at 956-2286 by Tuesday, June 10, 2003. Hope to see you there!

26th ANNUAL ENGINEERING ALUMNI ASSOCIATION GOLF TOURNAMENT

Don't forget to send in your registration forms ASAP if you want to play in this year's golf tournament! The planning committee has organized another fun day of golf and fellowship to raise money for the EAAUH Scholarship program. This year's event will be held on Friday, July 25, 2003, at the Leilehua Golf Course. Don't be turned away! Space is limited to the first 144 paid entries, so send in your forms and fees NOW!

EAAUH WEBSITE

Don't forget to visit our website at www.eaauh.org for information on upcoming events and EAAUH news. View photos of the Las Vegas trip, last year's golf tournament, and other events. Post some messages on our bulletin board. Employers: Do you have positions to fill? Post job listings on our website! It's easy to do, and it's FREE! There's a lot to look at, so check it out!



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Director	Gary Yamamoto	523-8874
Director	Tit Mun Chun	524-2270
Director	Brian Kang	449-5563
Past Pres	Victor Russell	949-4155

JUNE MEETINGS

June Program Chair Lee Mansfield

June 6 TBA on EAH WEB
<http://community.hei.com/eah/>

June 13 TBA on EAH WEB

June 20 TBA on EAH WEB

June 27 TBA on EAH WEB

ANNUAL MEETING End of Fiscal year – Election of Officers & Photo Day

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 Jan 31, 2003

SPEAKER: Dr. John Wiltshire, University of Hawaii

SUBJECT: "The Hunt for the Japanese Mini Sub"

Hawaii Under Sea Research Lab is one of six underwater research labs in the US. Each lab has a different technology and a different geographic area. In Hawaii, their specialty is submersibles and the area is Hawaii and the western Pacific. They are located at the Makai research pier at Makapuu. This is where they keep their submersibles and do their maintenance. The submersible is a 3 person 2,000 meter submersible. Their ship is docked in Honolulu Harbor. The ship is 225 feet in length and they can work all the way into the Indian Ocean. They recently got a second submersible from the Canadian Government, which is a sister ship of their original ship. They are both Pisces class submersibles; built in the 1970's in Vancouver. It was refurbished, but it was part of a negative government audit report and they were able to get a \$5,000,000 submersible for \$85,000. Dinner cruises are available but they cost \$20,000 for 6 people.

Every year they train pilots. Their favorite area for training is off Pearl Harbor. At the end of World War II the Government dumped all the old war materials about 5 miles offshore. They dumped landing craft, airplanes, cable of wire, tanks and trucks, etc. For the training they run sonar surveys to look for targets and then tell

the trainee pilot to find it. Of course one of the targets they have been trying to find is the famous Japanese midget sub that was reported sank by the USS Ward on the morning of Dec 7, 1941, before the attack on Pearl Harbor. Most people think of the attack as an aerial attack, but it was actually led by five midget submarines, launched off Waikiki about 3 am. Their mission was to penetrate into Pearl Harbor and start torpedoing ships to correspond with the aerial attack. The midget subs were launched from regular length submarines. One of the midget subs was shot and sank about 6:45 in the morning by the destroyer USS Ward. The sub has been the subject of controversy. Did the Ward actually hit the sub? The Ward reported that it had attacked the sub, but nobody sounded the warnings. It was a major part of the inquest after the Pearl Harbor attack. People have been looking for this sub for 61 years. The original sighting of the sub was of its periscope about 3 or 4m in the morning by a tug boat. There was a bright moon out that night. A cargo ship, the U.S.S. Antares, which saw the midget sub following it into Pearl Harbor, also reported it.

The midget is in about 1400 feet of water and about 4 mile off the mouth of Pearl Harbor. The picture of the sub was very clear because this year with two submarines, they can use one sub for lighting and the other sub to take photos. The submarine is in really amazingly good condition considering it was shot at and sunk 61 years ago. The submarines are called midget submarines but actually they are 78 feet long. The hull diameter is about 6 feet. The conning tower is about 2 feet. There are a couple of holes on the conning tower, which haven't been identified. The Ward fired two shots according to two eyewitnesses. He has talked with the two eyewitnesses and one of the eyewitnesses actually went down in the submersible. This was paid for by the Discovery Channel, which will show a program in April on the sub. The first shot went over the submarine and exploded beyond it. The sec-

ond shot was the one that hit the submarine on the starboard side and sunk the sub.

The pressure hull is a welded structure, reinforced with ribbing. The shell hole is a four-inch shell hole. The shot hit the submarine right at the base of the conning tower. This is right where the lieutenant would have been that would have been navigating the submarine. Since the conning tower is in good shape, the shell that hit the sub did not explode inside the sub. The shot was shot from very close range and penetrated the hull but didn't blow up. It was either a dud, which was known to happen frequently or the shell passed through the ship. But the port side is buried in the sand so any hole can not be seen. The eyewitness said the shell didn't go off and was a dud. One of the problems with the subs was that they couldn't ballast properly. Dr. Wiltshire suspects the Japanese crew thought they were submerged. But in fact the periscope and the conning tower were out of the water.

The torpedoes were fired with compressed air. They traveled at about 35 to 40 knots. They carried about 780 pounds of explosive, which was enough to blow about a 40-foot hole. When the torpedoes were fired they made the submarine porpoise up out of the water. One of the subs that made it into Pearl Harbor fired its torpedo, porpoised up out of the water, was immediately spotted by a destroyer, was rammed and sunk.

The subs are battery driven by 600 hp engines, which allow the sub to run at 20 knots submerged. So the subs were packed with batteries. The torpedoes are about the first third, the end is the engine and the rest is packed with lead acid batteries. But there was no generator. So once the batteries ran down, you're out of luck. Running at 20 knots would last only 1 hour. One crew passed out from breathing the acid fumes. The sub drifted for maybe a day and washed ashore in Waimanalo. One crew drowned and the other became the first Japanese prisoner of war, Lt. Sakamaki.



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Secretary	Dennis Chong	523-4482
Treasurer	Eric Hee	591-8116
Director	Kevin Kea	521-7491
	Erik Kaneshiro	
NSPS Gov	Patrick Cummins	247-6602
Past Pres	Byron Komatsu	692-7599

GENERAL MEMBERSHIP MEETING

April 24, 2003

COMMITTEE REPORTS

Membership (Eric Hee)- Dues reminder letters were sent out.

Aloha (Kendall Hee, Dennis Chong)- Wes Thomas passed away.

EASLA (Randy Hashimoto)- None

Education (Kendall Hee)- None.

Continuing Education for Relicensure- None.

Shoreline Certification Administrative Rule Changes (Pat Cummins & Kendall Hee)- Jerry Rothstein's e-mails to Randy Hashimoto regarding site inspections at various shorelines were discussed.

HCES (Erik Kaneshiro)- None.

Land Court (Pat Cummins)- None.

Legislative (Mary Cummins)- Deminimus and accretion bills.

Newsletter/Website (Dennis Chong, editor)- ACSM does have a link to our website.

NSPS Board of Governors (Pat Cummins)- Next meeting will be Sept. or Oct., 2003 at Maryland.

Programs (Kendall Hee)- Layton reported that the next general meeting on May 29, 2003 will have a demonstration by Pat Cummins on Trimble PRO XR mapping grade GPS, promptly at 5:30 p.m.

Public Relations (Pat Cummins)- Meeting with key legislators. Midweek.

Standards (David Hatchell)- Stacey/Andy will get the Standards in word format to David.

Non-Profit/Incorporation (Layton Nakao, Kevin Kea)- Pat to contact Bruce Graham.

WESTFED (Pat Cummins)- Next meeting will be on June 21, 2003 at Sparks, Nevada.

Workshops (Kevin Kea)- Kevin reports that Felicia will give a workshop in Mid July. Pat Cummins will give one in Mid June.

Annual Dinner Meeting (McCoy Pavilion) (Erik Kaneshiro)- Date will be September 12, 2003 at McCoy Pavilion.

HALS 2004 Conference (February 12-13, 2004)- Seminar Chair: Eric Hee; Concurrent Sessions: Kevin Kea; Installation Banquet: Eric Hee; Vendors: Dudley DePonte; Logistics: Stacey Kimura & Andy Harada; Flyer/Promotion: Dennis Chong; Registration: Stacey Kimura; Speakers Dinner: Erik Kaneshiro; CD Proceedings: Kendall Hee

UNFINISHED BUSINESS

NGS State Advisor Ed Carlson- GPS Height Modernization.

Lunar Observation (University of Kansas)- Kendall Hee

-HALS to take position on shoreline and submit to Randy Hashimoto.

NEW BUSINESS

Participation in Nation Public Works Week display at Windward Mall- Dennis Yamasato and Pat Cummins.

-Get report of prices for HALS logo knit shirts from David.

-Order letterheads (2 boxes).

EXECUTIVE BOARD MEETING HIGHLIGHTS

May 15, 2003

COMMITTEE REPORTS

Membership (Kevin Kea)- 150 reg., 7 sustaining paid members.

Education (Kendall Hee)- Semester (CE-211) has ended.

Shoreline Certification Administrative Rule Changes (Pat Cummins & Kendall Hee)- HALS position letter to State Surveyor & DLNR Land Office.

Legislative (Mary Cummins)- Deminimus and accretion bills. Accretion Bill SB-192 has passed both Houses, De minimus bill is in committee.

Newsletter/Website (Dennis Chong, editor)- Articles to be in by Saturday May 17. E-mail PDF file for newsletter to Layton.

NSPS Board of Governors (Pat Cummins)- Next meeting will be Sept. or Oct., 2003 at Maryland.

Programs (Kendall Hee)- Layton reported that the next general meeting on May 29, 2003 will have a demonstration by Pat Cummins on Trimble PRO XR mapping grade GPS, promptly at 5:45 p.m.

Public Relations (Pat Cummins)- Meeting with key legislators. -Midweek. Pat to contact Carol Chang.

Non-Profit/Incorporation (Layton Nakao, Kevin Kea)- Pat and Kevin to confer with Bruce Graham.

WESTFED (Pat Cummins)- Next meeting will be on June 21, 2003 at Sparks, Nevada.

Workshops (Kevin Kea)

- AUTOCADD workshop in Hilo featuring Felicia Provencal.

- Rules of Construction: Original vs. Retracement workshop featuring Pat Cummins. Annual Dinner Meeting (McCoy Pavilion) Erik Kaneshiro)- Date to be changed because of Aloha Day Parade (TBA) at McCoy Pavilion.

HALS 2004 Conference (February 12-13, 2004)

- Seminar Chair: Eric Hee

- Concurrent Sessions: Kevin Kea

- Installation Banquet: Eric Hee

- Vendors: Dudley DePonte

- Logistics: Stacey Kimura & Andy Harada

- Flyer/Promotion: Dennis Chong

- Registration: Stacey Kimura

- Speakers Dinner: Erik Kaneshiro

- CD Proceedings: Kendall Hee

UNFINISHED BUSINESS

NGS State Advisor Ed Carlson: GPS Height Modernization.

Lunar Observation (University of Kansas): Kendall Hee

Participation in Nation Public Works Week display at Windward Mall: Dennis Yamasato and Pat Cummins.

- Promotional materials - cups (Eric Hee), T-shirts (David I.).

- Letterheads done.

General Membership Meeting: May 29, 2003 @ESH - 5:45 p.m.

(Demonstration by Pat Cummins on Trimble PRO XR mapping grade GPS)

HALS Executive Board Meeting: June 12, 2003 at ESH (6:00 p.m.)

All meetings will be held at ESH at 6:00 p.m. unless otherwise noted.

Dr. Chiu 50-year ACI Member

Dr. Arthur Chiu, Emeritus Professor of Civil Engineering at the University of Hawaii at Manoa, was honored with an ACI Certificate of Appreciation in recognition of his 50-year continuous membership. During that period, he had served on various ACI committees. The award was presented at the recent Spring 2003 Convention of the American Concrete Institute held in Vancouver, British Columbia. Dr. Chiu will continue to be an ACI member but will be exempt from paying future dues.

HSPE - MAUI CHAPTER

President Brooks Aoki, P.E. (242-4403)

Vice President Derick Yoro, P.E.

Secretary Wendy Kobashigawa, P.E. (270-7435)

Treasurer Carlos Rivera, P.E. (242-4403)

APRIL MEETING MINUTES

Treasurer's Report: Treasurer Carlos Rivera reported that we had \$4,524.52 in our account. Announcements:

President Brooks Aoki announced our next month's meeting will be the installation luncheon for this year's officers. It will be held on Thursday, June 12th at the Sandalwood Restaurant. NSPE President Howard Blitman will be here to install the officers.

Eric Yamashige announced that there will be a State board conference call on Tuesday, May 13th at 4:15 pm at Ron Fukumoto Engineering office.

Guest Speaker:

Jacky Takakura, Information Specialist for the County of Maui Department of Water Supply (DWS) came to speak about the C-9 water additive that was used in the upcountry water systems.

The C-9 additive (zinc orthophosphate) was added into the upcountry water system beginning in June 2001 to comply with the Lead and Copper Rule passed in 1991. There is no lead in the County's water systems, but some older homes were built with lead pipes or pipes with lead solder. The EPA requires that DWS check water in the customers' homes for lead. If more than 10% of the samples exceed the maximum lead content, DWS is in violation of the Lead and Copper Rule and must take measures to comply with the requirements of this rule.

In April 2002, water samples taken were found in compliance, but the following month, DWS started receiving complaints about rashes, itches, burning eyes, and respiratory problems. A total of about 100 people reported these symptoms presumably after using the water.

DWS held several community meetings, met with various government agencies, and conducted extra sampling to determine if the usage of C-9 was related to the symptoms reported. Although the testing did not show any unusual results, DWS switched from C-9 to phosphoric acid on April 10, 2003. They will be sampling the water soon for lead content and will expect to obtain the results in another 6 weeks.

2007



NEW CONCRETE
PAVING AWARD
CATEGORY B

OWNER:
Chevron Products Company

ENGINEER:
RHL Design Group Inc.

GENERAL/PAVING CONTRACTOR:
Maryl Pacific Construction, Inc.

Kapolei Chevron

Chevron is always conscious of grading and slopes to ensure good driving circulation on the lot and proper drainage of water away from customer areas. Chevron's selection of concrete for its paving was not only economical but realized it enhanced the overall image while providing effective light reflectance at night for their 24 hour location.



2002-2003 Officers:

		Phone	Fax
President	Horst Brandes	956-8969	956-5014
	<i>brandes@wiliki.eng.hawaii.edu</i>		
Pres Elect	Westley Chun	488-0477	488-3776
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Vice-Pres	Keith Niiya	533-3646	526-1267
	<i>kniiya@atahawaii.com</i>		
Secretary	Walter Billingsley	846-3232	538-7819
	<i>wbillingsley@beltcollins.com</i>		
Treasurer	Lori Fong	531-7094	528-2368
	<i>lfong@ascehawaii.org</i>		
YMF Pres	Jeff Kalani	593-1116	593-1198
	<i>jeff_kalani@urscorp.com</i>		
Past-Pres	Tony Lau	524-3771	538-0445
	<i>tlau@hawaiiapacificengineers.com</i>		

JUNE DINNER MEETING

Program: Honolulu Board of Water Supply's Water Recycling Program, presented by Carolyn Ching BWS Recycled Water Program Specialist.

1) Recycled water helps meet Oahu's water needs. The BWS is working to maximize our precious water resources and ensure that Oahu's residents have the water resources they need through its Recycled Water Program. Recycled water is wastewater that has been treated to a level suitable for industrial processing, irrigation, and other non-drinking uses. Common uses include cooling towers, irrigation of golf courses, landscaping, and ornamental ponds. Recycled water is safe for human contact, but it is not intended for drinking. It is available year round, even in times of drought, and it costs less than other new water sources. Recycled water use is closely monitored by the Department of Health to ensure it meets all health and safety standards.

Date: Thursday, June 19, 2003
 Location: Maple Garden Restaurant, 909 Isenberg, Honolulu
 Time: 5:30 p.m. - Social Time
 6:30 p.m. - Dinner
 7:30 p.m. - Program
 9:00 p.m. - Adjourn
 Menu: Crab and Tofu Soup, Braised Pork Thigh, Chinaman's Hat, Crispy String Beans, Eggplant with Hot Garlic Sauce, Noodles with Minced Pork Peking Style, Steamed Rice, and Almond Float
 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

Make check payable to AASCE-Hawaii Section. Mail to Lori Fong, ASCE Treasurer, C/O Parsons Brinckerhoff, Pacific Tower, Suite 3000, 1001 Bishop Street, Honolulu, HI 96813, postmarked by Monday, June 16, 2003. Reservations to Lori Fong by Monday, June 16, 2003 by phone at 531-7094, fax at 528-2368, or e-mail at *lfong@ascehawaii.org*.

EXECUTIVE COMMITTEE MEETING

May 8, 2003

2003 CALENDAR OF EVENTS (subject to change)

July 2003 - Dinner meeting hosted by the Structural Committee

(continued on page 8)

2002-2003 OFFICERS

		Phone
President	Jeff Kalani	593-1116
	<i>jeff_kalani@urscorp.com</i>	
Vice-Pres	Jamie Hikiji	521-3051
	<i>jamie.hikiji@m-e.com</i>	
Secretary	Lori Nishida	533-3646
	<i>lnishida@atahawaii.com</i>	
Treasurer	Paulette Chang	524-3771
	<i>pchang@hawaiiapacificengineers.com</i>	
Student Chapter President	Meris Ota	956-5808
	<i>merisota@hotmail.com</i>	

Next YMF General Meeting

The next two YMF general meetings are scheduled for Tuesday, June 3, 6:00 p.m. at La Mariana Restaurant and Bar (50 Sand Island Rd.); and Tuesday, July 1, 6:00 p.m. at Player's (University Ave.). If you are interested in attending, please call Jeff Kalani at 593-1116.

ASCE Job Classified

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

SUMMER 2003 ASCE YMF PE EXAM REFRESHER COURSE

Dates: Saturdays, August 2, 2003 to October 4, 2003

Time: 9:00 a.m. to 12:00 p.m. (An afternoon class from 1:00 p.m. to 4:00 p.m. may be added if there is enough interest)

Location: To be determined, probably somewhere in downtown Honolulu

Cost: \$285 Early Registration Fee for ASCE Members; \$360 Early Registration Fee for Non-ASCE Members

Early Registration Deadline is July 4, 2003. Add \$25 late fee to registration fee if payment is postmarked or delivered after July 4, 2003. Class size is limited and registration is done on a first-come first-served basis. Please call first if registering late to verify if room is available.

This year's ASCE YMF PE Refresher Course will cover the "breadth-and- depth format" of the civil engineering professional examination. In addition to copies of the lecture notes for each subject and study supplies, class attendees will receive a copy of Michael R. Lindeburg's Civil Engineering Reference Manual for the PE Exam, 8th edition. Attendees will also have the option of ordering the following reference material at discounted prices.

To sign up for the Summer 2003 ASCE YMF PE Exam Refresher Course, or if you have any questions, contact Lorna Heller at 748-5944 or *LHELLER@hbws.org*.

Deputy Manager-Engineer

Salary Range from \$41,622 to \$64,168 per annum

The Department of Water, County of Kauai, has an exciting and challenging position that requires a person who is motivated, a strong management team player, enjoys working with people, values integrity, committed to improving government, and dedicated to serving the public.

This position works with the Manager and Chief Engineer in managing and directing the operation of the Department of Water. The Department is responsible for providing the drinking water supply for most of the island and has nearly 19,000 service accounts.

Minimum qualifications include being a licensed professional engineer in the State of Hawaii with at least four (4) years of progressively responsible supervisory or management experience in water utility operations, design of water supply improvements, the construction of water supply projects, or other water industry related fields.

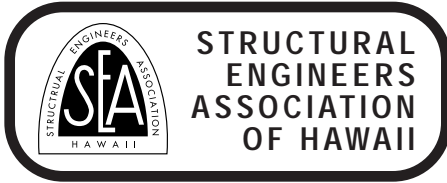
Recruitment is open through June 30, 2003. Those interested should submit a résumé, a photocopy of your professional license, and personal references by **4:30 p.m. June 30, 2003** to:

Edward Tschupp
 Manager and Chief Engineer
 DEPARTMENT OF WATER
 P.O. Box 1706
 Lihue, HI 96766

COUNTY OF KAUAI, DEPARTMENT OF WATER

Contact Phone Number: (808) 245-5407

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Vice Pres	Wes Segawa	935-4677	935-2070
Secretary	Bennett Fung	531-1308	521-7483
Treasurer	Susan Kuniyoshi	488-7579	488-7818
Director	Ibbotson Kellett	540-1030	526-1989
Director	Les Nagata	951-5916	941-6489
Past Pres	Tom Tanimura	536-7692	537-9022

Committee Reports:

2003 Convention at Manele Bay Hotel, Lanai- Registration deadline is June 21, please register before the deadline.

Installation Banquet - Location and date of the installation banquet has been changed to Sheraton Moana Surfdrider on Saturday, January 31, 2004.

HAWAIIAN CEMENT NAMES NEW OFFICERS

Carl Simons, President of West Hawaii Concrete, Ltd., has been named President of Hawaiian Cement. Simons succeeds Earl McCaskill, who was promoted to Vice President, Operations for Knife River Corporation, Medford Oregon, the parent company of both Hawaiian Cement and West Hawaii Concrete. Simons will continue to serve as President of West Hawaii Concrete. Simons holds a Bachelor of Arts in Business Administration from the University of Hawaii at Manoa.

Jason Macy, Vice President of West Hawaii Concrete, Ltd., has been named Vice President and General Manager. His responsibilities will include overseeing the day-to-day operations of the company. Macy is a graduate of the University of Hawaii at Hilo and has been employed at West Hawaii Cement for nine years.

Established in 1985, Hawaiian Cement is the state's principal supplier of portland cement, as well as one of the larger producers of ready-mix concrete and construction aggregates.

SSFM International, Inc.

A growing and dynamic local company is seeking to fill the following positions:

Entry Level Structural Engineer(s)
Structural Engineer II - III
Project Engineer - P.E. Required
Senior Project Engineer - P.E. Required

All positions are open until filled.
Hawaii design experience preferred.

Generous Employee Benefits
Email resume, cover letter
w/salary req. to: nahuna@ssfm.com
or visit www.ssfm.com
EOE M/F/V/D Employer

Scholarship - The SEAHO planned to award two \$500 scholarships this year. However, the UH was able to selected only one qualify candidate to receive this scholarship.

New Business

Wiliki distribution - SEAHO will begin electronic distribution of Wiliki starting with the June issue. All members who provided their email address in their membership renewal/application form will receive an electronic copy. All others will continue to receive the printed version by mail. If you don't receive a copy of Wiliki in the month of June, or if you wish to add your name to the electronic mailing list, please contact Susan Kuniyoshi at susan@mkellc.com.

Special Inspection Ad Hoc Committee - This committee was formed to update the Special inspection Recommended Standard of Practice, second edition, 1994. Anyone inter-

ested at joining this committee should contact Ibbotson Kellett.

Membership

New member - Tracy Nakayama of Nagamine Okawa Engineers, Inc. was voted in as an allied member.

2003 Calendar of Events

Next BOD meeting: Thursday, June 5, 2003, 4:00 p.m. at Zippys Vineyard.

Structural Engineering Research Update at UH-Manoa: SEAHO/ASCE Joint Dinner Meeting, Thursday, July 17, 2003 at Tree Tops Restaurant.

SEAHO Convention: August 8 - 9 at Manele Bay Hotel, Lanai.

Wood Design Seminar: Tuesday, August 19 at Pagoda Hotel.

AISC Practical Steel Design Seminar: Thursday, October 2 at Pagoda Hotel.



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**SEAHO 2003 ANNUAL CONVENTION
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August 8-9, 2003 at the Manele Bay Hotel**

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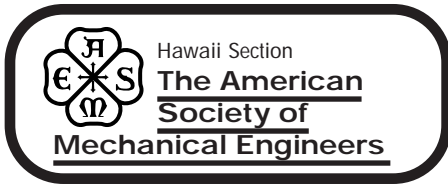


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Vice-chair	CAPT Joe Bradley, USN	473-8000
		x2668
Treasurer	Chester Kaitoku	527-6063
Secretary	Sam Gillie	543-4739
Dir 1 yr	Ron Flegal	455-0254
Dir 2 yr	Ed Chang	543-4227

HAWAII SECTION COMBINED COMMITTEES & POWER TECHNICAL CHAPTER MEETING

Date: Wednesday, June 4, 2003

Time: 5:30 p.m.

Place: Hawaiian Electric Company, Inc.
Ward Avenue Cafeteria

All members are invited and asked to attend. We are seeking help from the membership to fill the committee positions. In addition, we are having a Power Technical Chapter meeting to discuss programs for next year. Lots of free pizza and pop are always provided. Please contact Jim Grogan or Sam Gillie for directions and more information. For Power Chapter questions, please contact Ed Chang.

2003 ASME REGION IX REGIONAL ADMINISTRATIVE CONFERENCE (RAC)

The RAC was held at the Waikiki Terrace Hotel on May 1-3, 2003. This is an annual event when Region IX ASME Section officers assemble, discuss, recap, learn, and plan for the future of their sections. National agenda items are discussed and voted, and reports from the Region IX Operating Board are presented. The location rotates with each section taking its turn hosting the RAC. Region IX is comprised of 15 Sections from California, Nevada, and Hawaii.

CAPT. Joe Bradley, Raymond Liu, Sam Gillie, and Jay Higashi represented the Hawaii Section. Gillie and Higashi are members of the Region IX Operating Board. ASME Past President William Weiblen attended the 3-day event.

The 2003 Region IX RAC culminated with the Saturday night RAC banquet at the Waikiki Terrace facility. A buffet dinner was catered and non-alcoholic drinks were mixed and served. During the awards ceremony, the Section Chairpersons' certificates were presented including the one for Hawaii Section Chairman, Jim Grogan. Jay Higashi accepted Grogan's certificate. These certificates are a testament of the leadership dedicated by each Section Chairperson.

The Hawaii Section received two important awards. First we received the "ASME Region IX, William L. Dean, P.E., Outstanding Section Newsletter Award, 2002-2003." It was explained that although the Hawaii Section newsletter is part of the HCES Wiliki, the awards committee felt that the Hawaii Section provided consistent and informative articles in an overall professional Wiliki newsletter. The Hawaii Section contributed feature articles such as on MathCounts, FIRST Robotics, The Montgomery Competitions, and the annual ME Outstanding Project Competition.

The second award received was the "ASME, Region IX, Outstanding Webmaster, 2002-03." Although the ASME-HI Website is relatively new and simple, the committee felt that the website

had lots of good information that was kept current. Besides the usual links, list of officers, and list of planned events, the website contains just about a complete history of the Section. Almost any information of the Section can be retrieved from the website.

The final and most important award presentation was to H. Ronald Riggs, Ph.D., of the Department of Civil and Environmental Engineering, UHM. Hawaii Section Honors & Awards Committee Chairman presented Dr. Riggs with the ASME Fellow certificate and badge. The Fellow Grade is the highest elected grade of membership within ASME, the attainment of which recognizes exceptional engineering achievements and contributions to the engineering profession.

THE NATIONAL BOARD & ASME 72ND GENERAL MEETING

The meetings were held at the Hilton Hawaiian Village April 28-May 2, 2003. The National Board and ASME were organized many years ago for the purpose of promoting greater safety by securing concerted action and maintaining uniformity in the construction, installation, inspection, and repair of boilers and other pressure vessels and their appurtenances. Most of the week involved committee sessions to deal with boiler and pressure vessel codes and regulations. The theme of this meeting was SAFETY: One Goal. One Chance.

The opening session program included speeches by figure skater Peggy Fleming and basketball legend Bill Russell. Lt. Governor Duke Aiona, HIOSH Administrator Jennifer Shishido, C&C Director of Design and Construction Tim Steinberger, and ASME-HI representative Ed Chang gave welcoming speeches. State Chief Boiler Inspector Yash Nagpaul helped arrange for ASME-HI participation. During this General Meeting, Mr. Nagpaul was reelected to the National Board of Boiler and Pressure Vessel Inspectors Board of Trustees, a very important position among the Chief Boiler Inspectors in the US, Canada, and Mexico.

FRANCIS R. MONTGOMERY DESIGN COMPETITION

The fall F.R. Montgomery Design Competition for UHM Department of Mechanical Engineering was held May 9, 2003. The competition results will appear in the July Wiliki.

PROJECT/DESIGN OUTSTANDING ACHIEVEMENT AWARD

The nominations were received and the judges selected. The results of the ASME-HI 2003 competition will be announced in the July Wiliki.

PE REVIEW COURSE

Guy Pasco is planning a Mechanical Discipline P.E. review class for the next P.E. exam on October 24, 2003. So if you have applied by the January 10, 2003 application deadline and was planning to take the second exam, you may want to contact Guy Pasco. His review class is a 10-week course. Class is held one Tuesday evening per week starting at 6:00 p.m. and is conducted at the Hawaiian Electric Company's Ward Avenue facility (Ward Cafeteria room Cafe 2). Cost is \$50 for ASME members, and \$75 for non-members. This is a real bargain. Please contact Guy Pasco at 543-4451 for information and enrollment.

NEW WEBSITE FOR ASME HAWAII

Please visit <http://www.asme.org/sections/hawaii>. The Section Webmaster is constantly updating and adding to the website.

FUTURE ACTIVITIES

The following are activities that are planned:
July 6-10, 2003: 2003 Summer Fluids Engineering Conference at the Sheraton Waikiki. Visit our Hawaii Section website for more information.

July or August 2003: ASME Distinguished Lecturer - William L. Dean, P.E., on "The Engineer as an Independent Business Person: How to Start Your Own Engineering Company."



2002-2003 CHAPTER OFFICERS

		Phone	Fax
President	Bob Lohaus	833-4095	
Vice-Pres	Mel Harano	848-6966	848-6964
Treasurer	Sam Dannaway	526-9019	537-5285
Past Pres	Jayn Higashi	526-9019	537-5385

HAWAII SFPE SEMINAR PRESENTATION FIRE MODELS APPLICATIONS FOR FIRE PROTECTION ENGINEERS

Date: Thurs and Fri July 24-25, 2003

Time: 8:00 AM - 4:00 PM

Location: Fort Shafter Golf Clubhouse
(Hale Ikena)

Cost: \$200 (\$150 for SFPE members, Chapter Friends, & fire service personnel) (\$100 for Building & Fire Officials)

Deadline: The registration deadline is Friday, July 18, 2003.

Who should attend: Fire Protection Engineers and those with an interest modeling applications to fire protection problems.

This 2-day short course on fire modeling is designed for practicing fire protection engineers. Participants will be introduced to fire modeling concepts and the elements of enclosure fire models. Participants will be provided with some of the available zone fire models and fire dynamics calculation methods. The subject matter is organized into 8 sections and will follow the schedule outlined below.

- Module 1. Course overview
- Module 2. Overview of zone models
- Module 3. Overview of CFD models
- Module 4. Overview of the FDS model
- Module 5. People movement
- Module 6. Evacuation models
- Module 7. Tenability analyses
- Module 8. Case studies

For information and to register contact: Sam Dannaway, Program Chairman
Hawaii Chapter SFPE

Tel (808) 526-9019 / Fax (808) 537-5385

E-mail: seminars@sfpehawaii.org

ASCE, from page 6

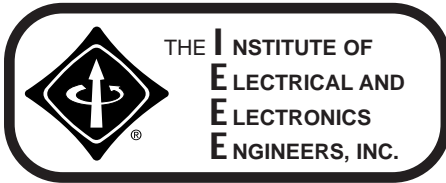
August 2003 - Dinner meeting hosted by the Transportation Committee

September 2003 - Dinner meeting hosted by the Ocean and Energy Committee

Walter Lum Scholarship Awarded to UH Civil Engineering Student

ASCE Hawaii awarded the annual \$1,500 Walter Lum Scholarship to Kason Pacheko, a Civil Engineering student at the University of

(continued on page 9)



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 833-8889
 (torigoe@ieee.org)
 Vice Chair: Mark Rognstad, 956-8712
 (mark_rogstad@ieee.org)
 Sec/Treas: Alison Lee 224-9723
 (al.lee@care2.com)
 Past Chair: Oscar Libed 441-8567
 (oscar.libed@ieee.org)
 Past Chair: Norm Kawachika 531-1308
 (normk@ieee.org)
 Past Chair: Fred Kobashikawa 543-7753
 (fkobashi@ieee.org)

Section Committee Chairpersons:

HCES Rep: Fred Kobashikawa 543-7753
 (fkobashi@ieee.org)
 Membership: Steven Sano 543-7981
 (ssano@ieee.org)
 Webmaster: Steven Sano 543-7981
 (ssano@ieee.org)
 Newsletter Editor: Alison Lee 224-9723
 (al.lee@care2.com)
 Professional Act: Alison Lee 224-9723
 (al.lee@care2.com)
 Student Act: Tep Dobry 956-9740
 (tep@ieee.org)
 Oceanic Society: Mark Rognstad 956-8712
 (mark_rogstad@ieee.org)

Hawaii IEEE Senior Member Initiative

Attention all IEEE Members! Have you been engineering for more than ten years? You may qualify for Senior Member status! The June 24th Hawaii Section meeting will make it easy for you to apply. These are the benefits of Senior Membership:

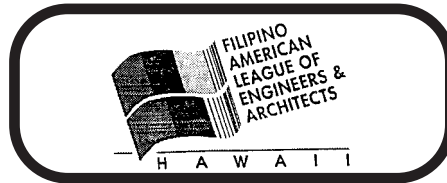
- The professional recognition of your peers for technical and professional excellence.
- An attractive fine wood and bronze engraved Senior Member plaque to proudly display.
- Up to \$25.00 gift certificate toward one new Society membership.
- A letter of commendation to your employer on the achievement of Senior member grade (upon the request of the newly elected Senior Member.)
- Announcement of elevation in Section/Society and/or local newsletters, newspapers and notices.
- Eligibility to hold executive IEEE volunteer positions.
- Can serve as Reference for Senior Member applicants.
- Invited to be on the panel to review Senior Member applications.

How do you become a Senior Member? Check the IEEE web site for the requirements at: <http://www.ieee.org/organizations/rab/md/>

smprogram.html.

You'll see that one of the requirements is to submit references from three IEEE members with Senior, Honorary or Fellow grade. That's where the June meeting comes in - we will have Senior Members at the meeting who will be able to submit references for your application. Check out the url above for the details on applying, and bring your resume on a floppy disk or CD to the meeting - we'll do the applications online at the meeting.

The meeting location has not yet been determined, so check the IEEE Hawaii website and watch your email inbox for the announcement. See you there!



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

2002-2003 Officers and Directors

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Pres.-Elect	Marites Calad-Shoji
Vice-Pres.	Leonard Obaldo
Secretary	Elvie Marie B. Pineda
Treasurer	Vergel del Rosario
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PRO	Alfredo Quibol
Directors:	John C. Ramos
	Marcelino Labasan
	Joel Francisco
	Ricardo Magday
	Joey Ressorreccion
	Marlo Garcia

The Commission on Filipinos Overseas (CFO) has just invited FALFA to take part in national development efforts by rendering volunteer work to promote the transfer of technology and community service to the Philippines, particularly to the province of Sultan Kudarat through CFO's Linkod sa Kapwa Pilipino (LINKAPIL) or Link for Philippine Development Program.

CFO referred to FALFA the request of the Technical Education and Skills Development Authority of the province of Sultan Kudarat for an expert in asphalt technology to provide technical assistance in the operation and maintenance of the province's Asphalt Mixing Plant.

Anyone interested to take part or assist in this project, please call Roger Urbi at 472-1192(W) or 220-3381(Cell).

FALFA has recently initiated a weekly bowling game for members and non-members alike every Wednesday evening at Kalaeloa (Barber's Point) Bowling Lanes. Games start at 6:30pm. Anyone interested please call Vergel Del Rosario at 838-8819(W) or 348-3944(Cell).

ASCE, from page 8

Hawaii. Kason was presented with a framed certificate and the \$1,500 scholarship check at the Hawaii Section May Dinner meeting. Kason is a 1998 graduate of Waiakea High School. He plans to complete his undergraduate work at the University of Hawaii (UH) in the upcoming fall semester and plans to continue towards a masters degree in structural engineering at UH. In addition to his outstanding academic achievements, Kason is actively involved with the UH ASCE Student Chapter. He was a member of the Steel Bridge Team that competed at the 2003 ASCE Pacific Southwest Regional Conference at Tempe, AZ in April. During the school year, Kason has been working part-time at S.S. Dannaway & Assoc. This summer, he will be completing an internship at Hawaiian Cement. Congratulations to Kason on his outstanding achievements and best wishes for success in his future endeavors!

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)
- Fewell Geotechnical Engineering (Geotechnical Engineer - Honolulu)
- Fukunaga & Associates (General Civil and Environmental/Sanitary Engineers - Honolulu)
- Warren S. Unemori Engineering (Project and Civil Engineers - Wailuku)

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. A 15-inch LCD flat screen TV will be awarded in April and \$500, \$250, and \$100 American Express gift checks in May. There has never been a better time to help out your colleagues while also helping ASCE find new members. Take a minute to think about the people in your professional life who could benefit from membership. Visit www.ASCEDrive.org to refer them and you could be a winner in the next drawing!

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 Tony Lau at 522-7426 or e-mail him at tlau@hawaiiapacificengineers.com.

Professional Directory

<p>WES THOMAS ASSOCIATES Land Surveyors 75-5749 Kalawa St., Kailua-Kona, Hawaii 96740-1817 Tel: 808 329-2353 Fax: 808-329-5334 <i>Surveying Hawaii Since 1975</i></p>	<p>WPT WALTER P. THOMPSON, INC. SURVEYING & MAPPING 720 Iwili I Road Suite 425 P.O. Box 3351 Honolulu, HI 96801 Phone: (808) 536-2705 Fax: (808) 599-4032</p>	<p>R. M. TOWILL CORPORATION SINCE 1930 PLANNING • ENGINEERING • ENVIRONMENTAL SERVICES PHOTOGRAMMETRY • SURVEYING • CONSTRUCTION MANAGEMENT 420 WAIKAKILO ROAD, HONOLULU HAWAII 96817-4941 808 842 1133</p>	<p>URS Engineers Scientists Program and Construction Managers Environmental Planners 815 PUALANI STREET, 9TH FLOOR HONOLULU, HAWAII 96814-1141 PH: (808) 845-1116 FX: (808) 845-1108 ben@urscorp.com www.urscorp.com</p>
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