

When do Red, White and Blue Equal Green?

Hint: This isn't an art question, it's an energy question (October is Energy Awareness Month).

... SOMEWHERE IN THE U.S.A. ...

Several states have passed laws requiring increased production of energy from renewable energy sources. In 1999, one state passed a law that will require it to more than triple its production of electricity from renewable sources by 2010 (from about 0.7% to 3%). The state? Texas.

Texas? The oil and gas state?

Yup, Texas. See, they don't think of themselves as an "oil and gas state." They think of themselves as an energy-rich state. Texas relies on its energy resources to supply its own needs and the energy needs of others. Royalties are used to fund roads, schools, and infrastructure. However, oil and gas production have been declining over the past two decades, to the point where Texans are now using more energy than they produce. Royalties have fallen drastically. On top of that, money for energy is flowing OUT of the state rather than into the state. And to make it even worse, oil jobs fell by half between 1982 and 1995. They don't like that, and see their energy deficit situation as a problem.

As explained by the Texas State energy office, "In just 40 years, Texas could be importing more than 80 percent of the energy required to meet its needs. Imports will make the state — and the U.S. as a whole — highly vulnerable to price fluctuations and political upheaval in the Middle East and other oil producing regions."

We in Hawaii might be tempted to laugh at their concern - they're worried that in 40 years they're still going to be LESS dependent on imported energy than Hawaii is RIGHT NOW?

But we're used to it; they're not. We're comfortable with the outflow of cash, the high energy prices, the vulnerability to price fluctuations and potential supply disruptions; we don't rely on homegrown energy to provide employment or royalty payments. Petroleum supplies about 39% of the energy used in the U.S.A. (mostly for transportation; oil is considered too expensive for power generation in most areas). Texas, considered by many to be a "gas guzzler" type of state, relies on oil for only about 46% of its energy needs.

Hawaii, in comparison, is the most oil-dependent state in the nation, depending on petroleum for close to 90% of our total energy. All of the oil is imported, primarily from foreign nations. As goes Hawaii, so goes Texas? Not if they can help it!

As pointed out by the Texans, "...much of the growing demand for energy in Texas and around the world can be met with clean, politically secure, renewable energy. Wind-powered turbines, solar panels and fuels derived from agriculture products (biomass) are well suited to our state." They call it "Renewable energy - the infinite power of Texas."

In Texas, over 880 megawatts (MW) of renewable energy capacity is already in use and 2,000 more MW of capacity is to be installed by 2009. In many cases, renewable energy, especially wind power, has turned out to be even cheaper than the already cheap (compared to Hawaii) "conventional" resources, especially with the increases in natural gas prices. Wind power is providing electricity, local employment, and even royalty payments. Projects located on State land are providing a new source of funding for Texas schools.

The Texas law requiring increased use of renewables for power production is what's called a "renewable portfolio standard." Eleven states have renewable portfolio standards or set-asides. Hawaii is not one of them, although there has been quite a bit of discussion in the Hawaii State Legislature recently.

... MEANWHILE, HERE IN HAWAII ...

The sun, wind, waves, plant matter, flowing rivers, and yes, even garbage, are available here in Hawaii (and elsewhere in the U.S.A.)

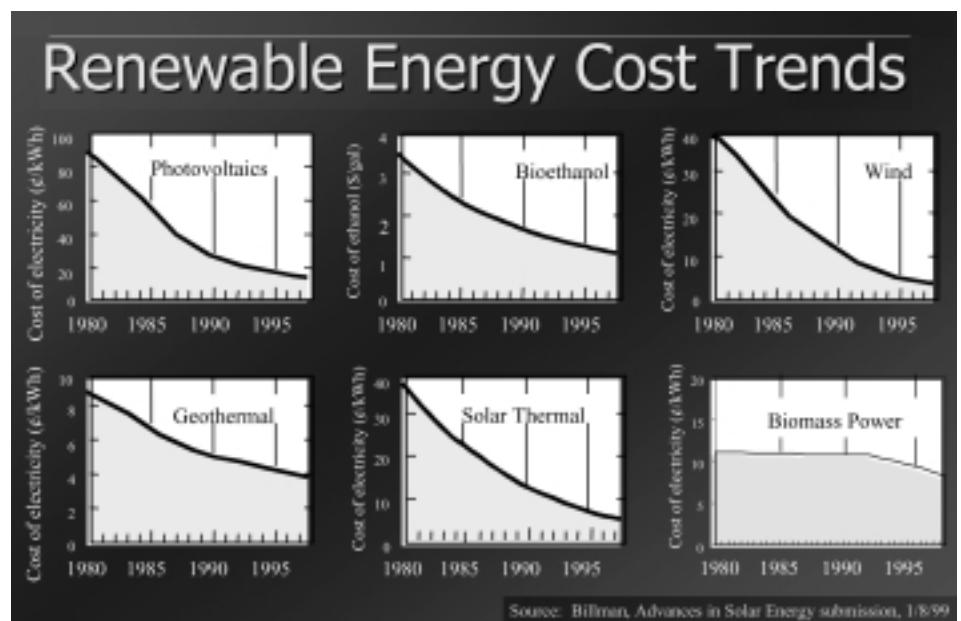
and don't have to be shipped in from the Middle East, defended by American troops, or be subject to shortages or bidding wars with other nations.

That's why it's said that renewable energy is "Red White and Blue" power. (So is energy efficiency, since it reduces the need for imported energy, and services are provided locally, by Americans.)

Every day, enough sunlight falls on our rooftops, enough wind blows across our islands, and enough weeds, shrubs, grass clippings and waste wood are discarded to provide more than enough energy for our state. Add to that the energy from waves, ocean thermal gradients, geothermal, landfills, agricultural wastes, and sewage treatment plants, and we've got (in theory, at least) enough energy for several times our needs until at least 2050. (By that point, of course, somebody will have figured out how to tap into the hot air generated by politicians during election years, and we'll be set until 2070.) But those numbers are theoretical, not necessarily practical.

Over 7% of Hawaii's electricity comes from renewables. That's down from 18% in the '60s, 11% in the '70s, 10% in the '80s, and 8% in the early '90s. Since demand is expected to increase and electric utilities' plans call for new generation to be fossil-fueled (predominantly diesel-fired combustion turbines), projections indicate that the percentage of electricity generated from renewables may continue to

(continued on page 11)





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MEETING HIGHLIGHTS

September 4, 2001

WILIKI O HAWAII

A cover article is needed for the December 2001 issue. Please submit your articles to Warren Yamamoto at wamamoto1@co.honolulu.hi.us. Each HCES Member Society is to submit their updated mailing list and the e-mail address of the person responsible for distribution of the Wiliki PDF files ASAP. Please notify your society membership chairperson if you prefer to receive your Wiliki via U.S. Postal Service or e-mail. Societies are to submit updated names to Warren and e-mail addresses to Webmaster Juny La Putt for webuser group.

ENGINEERS' WEEK 2002

Engineers' Week is from February 17, 2002 to February 23, 2002. The committees for Engineers' Week 2002 are as follows:

1. Kick off Luncheon - SAME
2. Finance and Budget - IEEE
3. Exhibits - SEAOH/SFPE
4. Banquet - ASCE
5. Program - FALEA
6. Registration - ASME
7. Entertainment - AACE
8. Lifetime Achievement Award - HCES
9. Engineer & Young Engineer of the Year - HSPE
10. Student Engineer of the Year - UH
11. Publicity - EAH
12. Awards & Leis - HALS
13. Proclamation & Photo - LGSEA

HCES LIFETIME ACHIEVEMENT AWARD

The HCES Lifetime Achievement Award was designed to recognize the lifetime achievement of recently retired engineers. This yearly award is considered to be highly prestigious and awarded to someone who has contributed significantly to the development of engineering in Hawaii and made a noteworthy impact on the Hawaii engineering community. The first HCES Lifetime Achievement Award was presented to Dr. Arthur N.L. Chiu at the Engineers Week Banquet on February 27, 1988.

Nominations for the HCES Lifetime Achievement Award are due to Manny Lanuevo, Past Chair of HCES, by December 31, 2001. The successful candidate will be selected by a five-member Selection Committee at HCES. Applications are available on the HCES website at <http://www.eng.hawaii.edu/~hces/HCESHome.html>.

ELIGIBILITY

The following criteria shall be applied to eligibility:

1. Any person belonging to any HCES member society and who is currently and active member of such society may be nominated.
2. The nominee must have lived and worked in Hawaii as an engineer or engineer-manager for at least 15 years.
3. The nominee should be 55 years or older at the time of nomination.
4. The nominee must have taken retirement from public or private sector employment. The nominee could, however, be continuing employment or consultancy or other work after effective retirement.
5. In the case of a nominee who was an entrepreneur who started his/her own company, the nominee should have actively handed over control of the company to a successor. The nominee could, however, be in a position of involvement with the company.
6. The award will only be made to a person who has been retired for a maximum of four years.
7. Posthumous awards may be made provided the nominee was an active member of an HCES member society at the time of his/her passing away and fulfilled all required criteria above.

NOMINATION

The following criteria shall apply to the method for nomination:

1. Any person belonging to any HCES member organization may nominate a candidate.
2. The nomination must be accompanied by a citation that must effectively highlight, in narrative form, the engineering contributions of

the candidate. Special emphasis must be laid here on the contributions to Hawaii.

3. The nomination must include a detailed resume of the nominee.
4. The nomination package must be submitted with a cover letter addressed to the HCES Chairperson. Nominations must be submitted by the end of December of the year prior to when the award is made.
5. Multiple nominators may nominate a single nominee. The nominations so submitted may be a joint nomination or separate, independent nominations. To be considered valid, each nomination package must be complete with all required documents.
6. A single nominator may nominate multiple candidates. The nomination for each candidate must be distinct and complete with all necessary documents.
7. The same nominee may be nominated in subsequent years.

NEXT MEETING

Date: Tuesday, October 2, 2001 (subject to change)

Time: 12:15 p.m.

Place: Plaza Hotel Restaurant, 3253 N. Nimitz Hwy.

RSVP (regrets and reports) to Ather Dar via hces@yahoo.com



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KAHE POWER PLANT TECHNICAL FIELD TRIP

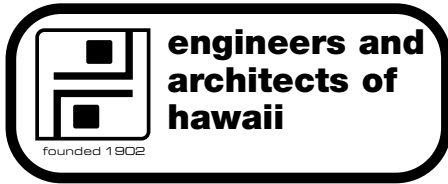
Join the EAAUH for a tour of the Kahe Power Plant at the Hawaiian Electric Company. The tour will be held on Friday, October 12, 2001 at 2:00 p.m. Parking is available at the facility. Pau hana party to follow at Café Bronco. Cost to attend is \$17/person (no host drinks). Contact Carrie Matsuzaki at 956-2286 by October 5th to sign up or for more information.



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Meetings held every Friday to 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.

October 2001 Program

October 12: Dr. Diane Drigot, Senior Natural Resources Mgt. Specialist Environmental Dept., Marine Corps Base Hawaii (MCBH). **Balancing Nature with Marine Life, (Our U.S. Marines).** Dr. Drigot will discuss a recent construction project generated by the closing of NAS Barbers Point and transfer of personnel to MCBH. In this case safeguarding Marines/ Sailors and the Hawaiian Stilt made for an unusual success story, showing that providing for military readiness while assuring environmental protection can result in a win-win situation for everyone.

October 19: TBA. Mokapu - A Journey in Time. A member of the staff of Marine Corps Base Hawaii, Kaneohe Bay will speak on the treasure and heritage that is the Mokapu Peninsula.

October 26: Martin J.K. McMorrow, PE(CE), Retired Naval Officer and Engineer. **The Guns of Oahu.** A history of the coastal artillery gun emplacements constructed on the Island of Oahu will be presented. The period from the establishment of Fort Kamehameha in 1908 until the last round from the USS Arizona's gun turret was fired from Mokapu Peninsula in 1945 will be covered.

Meeting Notes for Meeting July 20th, 2001.

Ross Cordy, Chief of Archaeology, Department of Land and Natural Resources and Author: **"Exalted Sits The Chief: The Ancient History of Hawai'i Island"** SUBJECT: "Hawaiian Archaeology- Pre-History of Hawaii"

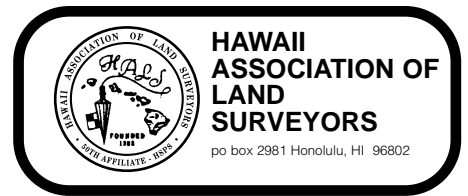
Most Hawaiian history taught in elementary and high schools mainly deals with King Kamehameha. But there is almost 2000 years of Hawaiian history before King Kamehameha. In King Kamehameha's times, past kings were really famous, but today no one even remembers those names. One of the reasons for his book, "Exalted Sits The Chief: The Ancient History of Hawai'i Island", was to blend in some of the old oral history of these times. Many building developments are required to do detailed and technical archeology reports that are rarely summarized for the schools. So the time period covered in the book is from initial settlement up to the time of King Kamehameha. The first Hawaiian settlers, based on the lan-

guage, were from the Marqueses. Marqueses grammar is closer to Hawaiian grammar than any other language. Also the sound shifts are similar. Tahitian does not have similar grammar or sound shifts. They were farmer, fishermen and bird catchers. They settled the windward or wet sides of the islands first and not the dry sides of the islands, because they would have wanted water for their crops. Ross believes, this was maybe 0 to 300 AD. However, most archeologists would agree the earliest settlements were between 300 to 600 AD. For the first 1000 years they populated the wet sides of the Islands or up to about 800 to 1000 AD. There are a lot of dates from sites in 600 AD to 900 AD at Bellows and Ko Olina have some sites that are likely temporary campsites. But with that many dates, you could figure there were people around earlier.

South Point on the Big Island has been claimed as the initial landing point for the first settlers, but it is a very difficult to safely land there. Waipio or Hilo are the optimum sites for landing. For the first 1000 years, new settlements were likely settled by one or two canoe loads of people. So there were likely 20 or 30 small "countries" occupying Oahu, with maybe 500 people with 1 chief and very little social stratification. So the Kapu system described by Captain Cook developed very late in Hawaiian history. There were four Kingdoms when Cook arrived in 1778, Hawaii Kingdom, which included the east end of Maui; Maui kingdom included Maui, Lana'i and Kaho'olawe; Oahu Kingdom included Moloka'i, Oahu and a part of Kaua'i; Kaua'i and Ni'i'hau. Kaua'i was about 30,000 people; Hawaii could have had 120,000 people or more. These were feudal kingdoms. The Chief's owned the land and they gave use rights to the commoners. The populations are as big as any of the Mayan City States in Central America, so there was that level of political organization. The oral histories indicate this happened about 1400 AD. Hawaii had the largest population of the Polynesian islands. Tahiti's political system never got as elaborate as Hawaii's. Only Tonga had as elaborate political system and they only had

about 100,000 people. So this is when the feather capes and helmets were developed and the big temples for human sacrifice date from the 1400's. Likely, these were the result of having a larger population and they could build bigger public works projects. The King's houses were close to the large temples. The large fishponds were constructed from this time. Waipio was the first royal center and was the only royal center between about 1400 to 1600. Then the population had grown and the king moved to the Kona areas.

Ross said there is no evidence of a second migration from Tahiti, no archeological or botanical evidence. The Hawaiian oral histories do not indicate a second migration. This is largely a myth from anthropologist from the 1930's. The principle occupation of Hawaii was likely by only two canoe loads of people. The first people to arrive would have had to cross three major new currents. Navigation was based on currents and star rising setting patterns. If they traveled through star rising setting patterns and new wave patterns, they would have had to be learned. There are many cases recorded in the 1800's in the Marqueses of Chiefs taking their family and sailing off into the distance and never being heard from again.



http://www.geocities.com/hals_us

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Hawaiian Bitumuls

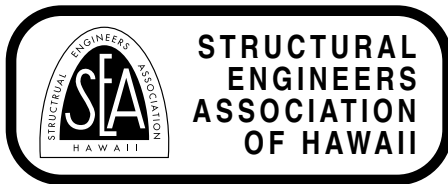
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HIGHLIGHTS OF BOD MEETING

September 10, 2001

Reviewed and approved treasurer's report. Current general checking account balance: \$7,413.66. Current money market account balance: \$5,975.22. Current convention checking account balance: \$6363.02.

New Member Applications:

The Board voted to accept Todd P. Dwight of Baldrige & Assoc. as a Member, John D. Chesak, Evan A. Mizue, Chris J. Shellane, and Frank Humay of Baldrige & Assoc. and Brian Enomoto of Martin and Chock, Inc. as Allied Members.

NCSEA/WCSEA Conventions:

Delegates: Tom Tanimura is registered for the NCSEA Ninth Annual Conference on October 3-6, 2001. Dennis Hanatani will be attending the WCSEA Convention for Glenn Miyasato. The WCSEA Convention will be held on September 20-22, 2001 in Park City, Utah.

Meeting Agenda/Program: The Board reviewed the Preliminary Program for the NCSEA Conference. Dennis had requested that the issue of complex building codes and the Trial Design Program by the SEI-BPAD Design Practices Committee be included on the agenda for the WCSEA Convention. Tom will likewise do the same for the NCSEA Conference. Members with issues or concerns that they would like to have discussed at the NCSEA Conference should contact Tom.

SEAOH Scholarship Fund:

The Board discussed and approved establishing a scholarship fund in the near future. The scholarship fund is intended to promote the structural engineering education and the profession.

Membership Dues:

To cover increased expenditures including seminars, continuing education, website and the proposed scholarship fund, the Board voted and approved proposing an increase in annual membership dues from \$40 to \$50. The last membership dues increase was in 1993.

Committee Reports:

Program: Tom Tanimura presented a revised schedule of upcoming meetings and seminars. See calendar of events for revised topics.

2001 Annual Convention: Glenn Miyasato reported that there are some outstanding payables and receivables, but the Convention was a success.

Nomination of 2002 Officers and Directors: Glenn Miyasato reported that election ballots will be sent in early October. Results of the election will be posted in the November Wiliki.

HCES: Irving Hirata reported that Wiliki is planning to convert to an electronic distribution process; however, there will not be any reduction in Wiliki dues. Irving also reported that HCES wants to know what SEAOH is doing to promote public education of the engineering profession.

2002 Installation Banquet: In addition to Henry Mikasa, the Board is open to accepting one or two Life Members. Contact any Board member for nomination of prospective SEAOH Life Members.

2002 Annual Convention in Japan: Glenn Miyasato reported that the committee is finalizing the cost of the Convention and travel agency, narrowing the focus on the technical program, and working on spouse/children activities. Peter Kobayashi of Kobayashi Travel Service will be preparing a revised proposal for air, hotel, and transportation.

Project Impact: Dennis Hanatani reported that SEAOH is on the steering committee for Project Impact. SEAOH offered to assist with promoting educational programs for hazard mitigation and construction of safe rooms.

Board Discussion Topic #1 continuation - Consequences of Complex Building Codes/Report of Trial Design #2 (SEI BPAD): The Board discussed the facts, consequences, and recommendations relating to complex building codes and standards and also the results of the Trial Design #2 Study presented by the SEI BPAD Design Practices Committee. SEI BPAD sponsors an ongoing program (Trial Design Study) designed to test how practicing engineers actually apply codes and standards. Clayton Wong requested exhibiting the third set of trial design problems on the website for the membership to participate in the study. The Board approved promoting and supporting the Trial Design Study. The results of the Trial Design #2 Study is published in the July-August issue of Structure magazine. Trial Design #3 (3 design problems) has been posted on the SEAOH.org website. Members are encouraged to participate by doing at least 1 of 3 trial problems.

Board Discussion Topic #2 - IBC 2000 and NFPA 5000: The Board discussed and contemplated the pros and cons of each building code.

2001 CALENDAR OF EVENTS

October 30, 2001 - Breakfast Meeting. Carol Pivonka will present the 2000 AISC Code of Standard Practice for Steel Buildings and Bridges and the new OSHA Erection Rules: How They Affect Engineers, Fabricators, and Contractors.

November 3, 2001 - ASCE/SEAOH Turkey

Tennis Challenge. See the notice in this issue of Wiliki, the SEAOH website at www.seaoh.org or call Mike Kasamoto at 955-6834 for more information and registration.

November 14, 2001 - Seminar on the Design of Concrete Buildings for Earthquake and Wind per UBC 97 by Attila Bares, P.E. from PCA Western Region.

Next BOD meeting: will be at 11:45 am on Monday, October 1, 2001 at Dennis K. Hanatani, Inc.



HAWAII CHAPTER

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Our thoughts and prayers go out to all the victims of the World Trade Center and Pentagon attack as well to those tireless rescue personnel assisting in the recovery.

METALCON IN LAS VEGAS

Metalcon is to light-gage steel as the World of Concrete is to concrete. Metalcon will be held at the Las Vegas Convention Center on October 23-25. There will be over 275 exhibits including the LGSEA exhibit and the Hawaii Pacific Steel Alliance exhibit. There will be seminars covering everything from truss design to roofing and fastener technology. For information and registration, go to www.metalcon.com. Hawaii LGSEA officers Les Nagata, Brian Ide, Mike Kasamoto, and Colleen

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STRUCTURAL SYSTEMS, INC.

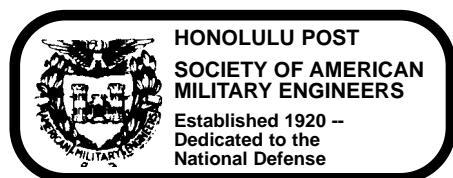
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To All SAME Members:

At this writing, approximately 190 military and civilian personnel are believed to have been killed in the terrorist attack on the Pentagon just 72 hours ago. These include not only military personnel but also civilians, contractors and the airline passengers aboard the hijacked American Airlines jetliner.

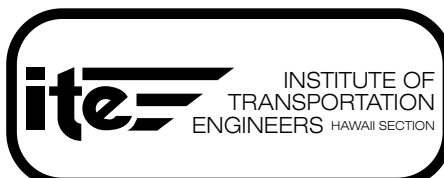
Combined with the simultaneous tragedy in the World Trade Center towers and a similar crash in Somerset County, Pennsylvania, the toll is expected to reach into the thousands. While we are still in the midst of shock, confusion, sorrow and outrage, our country's need to recover and respond with anti-terrorism efforts means that our fellow members in the Department of Defense and related agencies have little time to react on a personal and emotional level. The world will know that America will not be swayed by these acts of cowardice. They have only strengthened our resolve to remain ever more a world power and symbol of freedom and democracy.

What can those of us based outside the beltway or not in uniform or active duty, do to help? Several Posts and Regions have expressed interest in establishing a National SAME Pentagon Victims Assistance Fund (PVAFF). To that end, contributions will be taken at PVAFF, Society of American Military Engineers, 607 Prince Street, Alexandria, Virginia 22314-3317 or by calling (703) 549-3800 Fax: (703) 684-0231 or (800) 336-3097.

Throughout the country, our thoughts and prayers remain with the families of the many people affected by this tragedy. God Bless America.

Roger J. Wozny, P.E., FSAME
National President, Society of American Military Engineers
14 September 2001

See also Page 11



2000-2001 Officers

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Pete Pascua	President	946-2277	946-2253
civil@wilsonokamoto.com			
Terry Brothers	Vice-Pres	949-7334	943-7951
brothers@wilbursmith.com			
Richelle Suzuki	Secretary	541-2530	541-2700
richelle.suzuki@fhwa.dot.gov			ext. 311
Fred Smoot	Treasurer	841-7617	842-1819
ppihnl@aol.com			

JULY MONTHLY MEETING

The ITE Hawaii Section Monthly Meeting was held on July 19, 2001. The meeting was opened with an announcement that Hawaii's proposal to host the District 6 meeting in 2006 was approved with great excitement.

Our guest speaker was Jan Yokota, a planner with the Kakaako Development Agency. She presented the current master plan for the redevelopment of Kakaako.

The vision for the Kakaako area is an in-town community designed and constructed using a public-private partnership. The government provides the infrastructure including roads, sewer, water, and electricity. They will also relocate existing businesses to prepare for the redevelopment. The private industry constructs the attractions to bring the local residents and visitors to the area.

Attractions include the construction of the Kakaako Park, a continuation of the bicycle and pedestrian path from Ala Moana Park, a Science Learning Center, funded by Bishop Museum, moving the Aquarium from Waikiki, retail stores along Kewalo Basin, construction of the University of Hawaii, Bio-medical Research Center. It is expected that in 5 years

the area will be totally transformed.

AUGUST ANNUAL MEETING

The ITE Hawaii Section Annual Meeting was held on August 30, 2001 at the University of Hawaii. The Hawaii Section President, Pete Pascua, opened the meeting by presenting awards to all of the 2001 officers and committee chairpersons.

Mr. Pascua then introduced our guest speaker, Mr. Tim Harpst who is the District 6 International Director of ITE. We were fortunate to have Mr. Harpst discuss the 2001 and 2002 emphasis areas of ITE which include the following:

- Management and Operations of Transportation Systems (coordination between agencies)
- Transportation Safety (red light running, and road safety audits)
- Transportation in a Societal Context (working with the public)
- Workforce Development (Web-based and Video showcasing career opportunities)
- Publications and Reports (webpage www.ite.org, MUTCD Millenium Edition, HCM 2000, Speed Zones, Alternate Treatments at At-grade Pedestrian Crossing, TOC Manual, Geometric Design Handbook)
- Professional Licenses (Professional Traffic Operations Engineer, Traffic Operations Practitioner, and Transportation Planner)

The 2002 election results were announced. Mr. Harpst conducted the ceremony to install the 2002 officers for the Hawaii Section. The following are the newly elected officers:

President: Wayne Kawano
Vice-President: Richelle Suzuki
Secretary: Cathy Leong
Treasurer: Susan Uejo

The meeting was concluded with the announcement that the next meeting will be held in October and that ideas for future speakers are requested.

DESIGN OF CONCRETE BUILDINGS for Earthquake and Wind Forces per UBC 1997

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

This seminar focuses on the proper design and detailing of concrete buildings based on the provisions of the 1997 UBC; and timesaving analysis and design techniques for simplified design of concrete buildings. Explanations and rationale relating ductility concepts and construction techniques to ACI-318 requirements as well as innovative new concrete lateral systems will be covered.

Wednesday, Nov. 14, 2001 from 8:00 am to 3:00 pm at Pagoda Hotel.

Instructor is

DR. ATTILA BERES, P.E.,

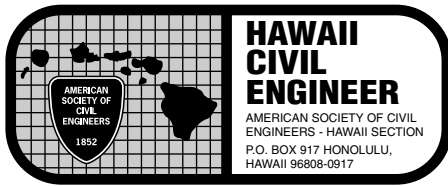
Western US Regional Engineer, Portland Cement Association.

Full day seminar registration is \$75 per person includes seminar notes, two reference books: *Seismic Detailing of Concrete Buildings*, and *Design of Concrete Buildings for Earthquake and Wind Forces per UBC*. Lunch is also included.

Registration deadline is Nov. 7, 2001.

For additional information or to register, call CCPI at 833-1882





Website: www.ascehawaii.org

2001-2002 OFFICERS

		Phone	Fax
President	Tony Lau	524-3771	538-0445
	tlau@hawaiiipacificengineers.com		
Pres-Elect	Horst Brandes	956-8969	956-5014
	brandes@wiliki.eng.hawaii.edu		
Vice-Pres	Westley Chun	488-0477	488-3776
	engrsol@verizon.net		
Secretary	Keith Niiya	533-3646	526-1267
	kniiya@atahawaii.com		
Treasurer	Walter Billingsley	539-1432	538-7819
	wbillingsley@beltcollins.com		
YMF Dir	Willie Gacutan	847-3763	843-0294
	wgacutan@hotmail.com		
Past-Pres	Joanna Seto	586-4329	586-4352
	jseto@eha.health.state.hi.us		

ANNUAL BANQUET

Program: Installation of 2001-2002 Officers. Presentation of nominees for 2001 Outstanding Civil Engineering Achievement (OCEA) Award and presentation of the OCEA award.

The 2001 OCEA nominees include (a) "National Missile Defense Launch Test Facilities, Meck Island, U.S. Army Kwajalein Atoll, Marshall Islands" by Dick Pacific Construction for the U.S. Army Corps of Engineers; (b) "Emergency Federal Aid Project, Mamalahoa Highway Replacement of Keaiwa Stream Bridge, District of Ka'u, Island of Hawaii" by Wesley R. Segawa & Associates, Inc. for the State Department of Transportation; and (c) "Nimitz Highway Reconstruction Sewer Project (Hotel to Auahi Street)" by URS Corporation for the City and County of Honolulu, Department of Design and Construction.

Date: Friday, October 19, 2001

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

Make check payable to "ASCE-Hawaii Section." Mail to Keith Niiya, ASCE Treasurer, Austin Tsutsumi & Associates, 501 Sumner Street, Suite 521, Honolulu, HI 96817-5304 postmarked by Monday, October 15, 2001. Reservations to Keith Niiya by Monday, October 15, 2001 by phone at 533-3646 or fax at 526-1267.

EXECUTIVE COMMITTEE MEETING HIGHLIGHTS

September 4, 2001

2001 CALENDAR OF EVENTS (subject to change)

October 25, 2001 – Workshop co-sponsored with APWA Hawaii Chapter and LTAP entitled "ADA: Designing Public Rights-of-Way".

HAWAII SECTION EXECUTIVE COMMITTEE EXTENDS CONDOLENCES

The Hawaii Section Executive Committee asks that our colleagues join us in offering prayers and thoughts for the victims and their families following the tragic events in New York City and Washington DC. More than 200 ASCE members had offices in the World Trade Center and nearby buildings. Not all of these people have been accounted for and we can only hope that they were evacuated in time. We offer the family, friends, and colleagues of the victims our condolences as they cope with this incredible tragedy.

NY/DC recovery assistance

ASCE through the Metropolitan Section has aided search and rescue efforts following the tragic collapse of the World Trade Center towers on September 11, 2001. Structural engineers, engineering records, and office space have been provided. If you are interested in offering your assistance in the event additional volunteers are needed, please e-mail your qualifications and proximity to NY and DC to disasterresponse@asce.org.

Hawaii section loses a friend

In an unrelated incident, Larry and Judy Wade died earlier this week when their tour plane went down in Mexico. Over the years, Larry made many outstanding contributions to ASCE having served as National Treasurer, District 12 Director, and Zone IV Vice President. Larry and Judy will be dearly missed.

OUTGOING COMMITTEE CHAIRS AND SECTION APPOINTEES FOR 2000-2001

ASCE Hawaii Section is supported by the work of volunteers. Without their help, we would not be able to serve our members, profession, and community. We thank the following technical committee chairs, standing committee chairs and section appointees who worked hard in serving the Hawaii Section this past year:

Technical Committee Chairs:

Construction Committee: Randall Akiona
Environmental Committee: Roger Babcock
Geotechnical Committee: Brennon Morioka
Hydraulics/Hydrology/Water Resources Committee: Barry Muranaka
Ocean and Energy Committee: Scott Sullivan
Structural Committee: Ron Iwamoto
Transportation Committee: Panos Prevedouros

Standing Committee Chairs:

Awards Committee: Walter Billingsley and Bryan Low
History and Heritage Committee: Dudley Pratt, Jr.
Hospitality Committee: Lori Fujitani
Membership Committee: Stacie Saito
Newsletter Committee: Westley Chun
Webmaster: Lori Ikeda
Section Appointees:
Local Legislative Affairs Committee: Owen Miyamoto
Oahu Metropolitan Planning Organization (OMPO) Representative: John Sato
Outreach Committee: Stacie Saito, Lureen Helliangao and Lorna Heller
150th Anniversary: Delwin Ching
Practitioner Advisors: Jeff Kalani and Glenn Miyasato
Scholarship Committee: Michael Street
University of Hawaii Student Chapter Faculty Advisor: Craig Newtonson

COMMITTEE CHAIRS AND SECTION APPOINTEES FOR 2001-2002

Listed below are the technical committee chairs, standing committee chairs and section appointees for 2001-2002.

Technical Committee Chairs:

Construction Committee: Randall Akiona
Environmental Committee: Roger Babcock
Geotechnical Committee: Brennon Morioka
Hydraulics/Hydrology/Water Resources Committee: Barry Muranaka
Ocean and Energy Committee: Robert Rocheleau
Structural Committee: Ron Iwamoto
Transportation Committee: Panos Prevedouros and Ricardo Archilla

Standing Committee Chairs:

Awards Committee: Bert Saito
History and Heritage Committee: Dudley Pratt, Jr.
Hospitality Committee: Lori Fujitani
Membership Committee: Stacie Saito
Newsletter Committee: Keith Niiya
Webmaster: Joanna Seto

Section Appointees:

Local Legislative Affairs Committee: Owen Miyamoto
Oahu Metropolitan Planning Organization (OMPO) Representative: John Sato
Outreach Committee: Lureen Helliangao
150th Anniversary: Delwin Ching
Practitioner Advisor: Christopher Souza
Scholarship Committee: Joanna Seto
University of Hawaii Student Chapter Faculty Advisor: Roger Babcock

ASCE Hawaii Section thanks these members for volunteering their time and effort to make this section better for the rest of the membership. ASCE is always looking for volunteers so if you would like to assist with a particular committee, please contact Horst Brandes at 956-8969 or Westley Chun at 488-0477.

ADA: Designing Public Rights-of-Way

The American Society of Civil Engineers - Hawaii Section with the Hawaii Chapter of the American Public Works Association and Hawaii Local Technical Assistance Program will be sponsoring a workshop entitled – "ADA: Designing Public Rights-of-Way". Hawaii leads the nation in lawsuits for non-compliance with the Americans with Disabilities Act (ADA). This workshop will focus on the design of public civil works to meet the requirements of the ADA, particularly in regards to public rights of way. It will begin with an introduction to the ADA, presentations on State and City & County guidelines and perspectives, as well as a discussion on efforts underway by the Public

(continued on page 10)

ASCE/ ASCE STUDENT CHAPTER/ SEAOH TURKEY TENNIS CHALLENGE

DATE: November 3, 2001, Saturday, 8:00 a.m. to 12 noon

PLACE: University of Hawaii Tennis Courts

TIME: 8:00 a.m. to noon. Please be there by 7:45 a.m.

COST: \$17.00 for members and guests, student engineers free. Includes court fees, balls, prizes, refreshments. Donations welcome. Guests welcome

DEADLINE FOR ENTRIES: Friday, October 26, 2001 (Please sign up early.)

Call or email Michael K. Kasamoto at 955-6834 mkse@hgea.org for further information.



2000-2001 OFFICERS

Director:	Willie Gacutan	Phone	847-3763, x212
	<i>wgacutan@hotmail.com</i>		
Admin:	Jamie Hikiji	521-3051	
	<i>jamie_hikiji@metcalfeddy.com</i>		
Social/	Jeff Kalani	593-1116	
Comm. Act	<i>jeff_kalani@urscorp.com</i>		
Web page:	Lori Ikeda	455-3569	
	<i>lori@ikedanet.com</i>		
PE Refresher	Tony Lau	524-3771	
Course	<i>tlau@hawaiiipacificengineers.com</i>		
Past-Dir:	Lorna Heller	527-5202	
	<i>lornagreg@yahoo.com</i>		
St/Liais	Lori Nishida	956-5808	
	<i>lornish@hotmail.com</i>		

2002 Civil Professional Engineering Exam Refresher Course

The YMF will coordinate a Refresher Course for the Civil Professional Engineering Examination that will start in early January 2002. This course is provided annually and has been very successful in helping young engineers to pass the PE Exam. The class size is limited to provide a more intimate classroom setting with the instructor. You do not need to be an ASCE member to sign up for the course. Detailed information will be provided in the November Wiliki and on the ASCE YMF website at www.ascehawaii.org/ymf/PErefresher.html at the end of October. For further questions, please contact Tony Lau at 522-7426 or at tlau@hawaiiipacificengineers.com.

2002 Hawaii Young Engineer of the Year Award

The ASCE YMF is requesting nominees for the 2002 Hawaii Young Engineer of the Year Award. This award is presented annually at the Hawaii Engineer's Week Banquet in February. The award is presented to a young engineer who has shown achievement both professionally and within the community. The young engineer must be 35 years or age or less on January 1, 2002 and must be a member of an engineering organization of the Hawaii Council of Engineering Societies (HCES). The ASCE YMF nominee must be a member of ASCE. For nomination forms, please contact Willie Gacutan at 847-3763, x212.

(continued on page 10)

YMF/Student Chapter Find and Recover Sunken Canoe

By Jeff Kalani

The ASCE Hawaii Section Younger Member Forum (YMF) and the University of Hawaii ASCE Student Chapter recently organized and participated in a unique and challenging expedition. The mission: to find and recover the 20-foot long, fiberglass practice canoe that ended up at the bottom of the ocean in front of Ala Moana Beach Park five years ago.

The year was 1996 and the UH ASCE Student Chapter was preparing for the National Concrete Canoe Competition in Madison, Wisconsin after winning the Pacific Southwest Regional competition for the 2nd consecutive year. It was a picture perfect Saturday in mid June and a south swell was rolling in. Deciding to combine paddling training with some recreational time, the students headed down to Ala Moana Beach Park with an old concrete canoe and a fiberglass prototype of Kialoa, the first

UH concrete canoe to qualify for the National competition. While having fun surfing the canoes in one- to three-foot waves in front of Kewalo Basin, the fiberglass practice canoe was swamped by a large wave. While the two paddlers were rescued by the other canoe, the fiberglass canoe vanished beneath the waters off the Ewa end of Ala Moana Beach Park. Although the canoe sunk in shallow water about 20 feet deep, very poor visibility on the order of only one to two feet made locating the canoe using mask and snorkel impossible. To make the situation even more challenging, the unpainted fiberglass canoe is the same color as the sandy bottom.

This past June 16, nearly five years to the day since the canoe sank, the YMF and Student Chapter gathered at Ala Moana Beach Park in hopes of finding and retrieving the sunken vessel. Determined to find the canoe, and equipped with SCUBA gear, YMF members Danny Liu and Jeff Kalani, and Student Chapter members Geoff Ries and Lori Nishida descended beneath the surface of the murky Ala Moana waters. Although separated by only a few feet, the extremely poor visibility made it impossible for the divers to see each other. With no means of communicating visually, the divers communicated with signals that were conveyed by tugging on a rope that they brought to pull the canoe to the shore. The divers also held onto the rope to maintain a spacing that would enable them to cover the most area while sweeping across the bottom in a search pattern. Though many doubted that finding the canoe would be possible after all this time, the sunken canoe was discovered after less than a half-hour of searching! Now covered with barnacles and a quarter filled with lagoonal silt, which was home for many unusual marine slugs and other creatures, the bow of Kialoa's fiberglass prototype was discovered where it lay quiet, motionless, and unseen for five years. After securing the rope to the bow and stern of the canoe, which now weighed close to 300 pounds, the divers managed to drag the canoe to the shore where they were greeted and assisted by the other YMF and Student Chapter members. Despite being

completely covered with barnacles, the hull's integrity was structurally sound – the canoe was cleaned out and deemed seaworthy again!

Following the canoe's retrieval, the YMF and Student Chapter enjoyed a potluck lunch, which included volleyball and horseshoe matches. To cap off the day's success, the canoe proved itself once again and even carried a passenger while being towed via kayak to the Magic Island-end of the beach park where it is being stored temporarily until the Student Chapter decides on the fate of the once lost and sunken canoe!



Expedition divers from right to left with recovered canoe: Jeff Kalani (YMF), Lori Nishida (SC), Danny Liu (YMF), and Geoff Ries (SC).

CITY JOBS
Civil Service Opportunities

CIVIL ENGINEER V
Exam No. 096890

CONTINUOUS RECRUITMENT UNTIL NEEDS ARE MET

\$3,863 per mo., incl. temporary shortage differential.

Duties: Responsible for a number of complex and major solid waste planning and engineering projects in the Dept. of Environmental Services, Refuse Division, which is relocating to Kapolei Hale in 2002. Supervises and directs engineering consultants in the preparation of engineering designs, plans, specifications, estimates, construction management, and field adjustments for sanitary landfills, transfer and convenience stations, incinerators, recycling facilities and resource recovery facilities.

Requires graduation from an accredited college or university with major work in civil engineering and one year of registered professional engineering experience. Current State of Hawaii registration as a professional Civil Engineer. Applicants with an out-of-state license in Civil Engineering must obtain the Hawaii license prior to appointment. Valid Hawaii State driver's license (Type 3) prior to appointment.

★ ★ ★ ★ ★ ★ ★ ★ ★ ★

Applications available at all Satellite City Halls and the Dept. of Human Resources, 715 S. King Street, Suite 550 (Standard Financial Plaza). Hrs. Mon. to Fri. 7:45 a.m. to 4:30 p.m. Call 523-4301 or visit our website at www.co.honolulu.hi.us/hr for additional information.

CITY AND COUNTY OF HONOLULU
An Equal Opportunity Employer



www.eng.hawaii.edu/~hspe

2001 – 2002 STATE OFFICERS

		Phone	FAX
President	Kirk Tanaka <i>rttanaka@gte.net</i>	242-6861	244-7287
Pres-Elect	Scott Seu <i>sseu@hei.com</i>	543-4500	543-4511
1st VP	Tom Pack <i>tgkona@hawaii.rr.com</i>	325-2216	325-1415
2nd VP	Riley Smith <i>rsmith@parkerranch.com</i>	885-2306	885-5602
Secretary	Eric Yamashige <i>ehy@mauigateway.com</i>	242-8611	244-7510
Treasurer	Ken Rappolt <i>ken@lyonassociates.com</i>	536-6621	523-1738
Past Pres	Curtis Beck <i>cbeck@hei.com</i>	969-0134	969-0135
Nat Dir	Bruce Witcher <i>bewitch@ihawaii.net</i>	334-0322	334-0831

UNITED WE STAND

On September 11, after terrorist attacks in New York City, Washington, D.C., and Pennsylvania, our nation was changed irrevocably and so, too, was our profession. Several engineering firms and organizations, such as the Port Authority of New York and New Jersey, had offices in the World Trade Center and had NSPE members on staff. We also had members in offices in the Pentagon. We do not know the fate of these members, but our prayers are with them. For the NSPE Board of Directors, staff, and the entire membership, we extend our deepest sympathy to the victims, their families, and friends.

The building of this nation has been carried out by engineers, and this country's great cities and structures are monuments to human ingenuity. Great engineering feats often become symbolic of things much larger than the steel and concrete used in construction. The 110-story World Trade Center towers were not just tall buildings, nor is the Pentagon simply a five-sided structure. They became icons of the United States, our strength, our freedom, and our ideals.

No profession places a greater emphasis on the protection of the public safety and welfare than engineering. The Engineers' Creed, which was adopted by NSPE in June of 1954 states, in part, that professional engineers are to dedicate their professional knowledge and skill to the advancement and betterment of human welfare. "To place service before profit, the honor and standing of the profession before personal advantage, and the public welfare above all other considerations."

Professional engineers often volunteer their services under tragic circumstances. In April 1995, engineers were called to the Alfred P. Murrah Federal Building in Oklahoma City to help with search-and-rescue efforts. Engineers also regularly volunteer their services in the wake of natural disasters. In 1998, engineers volunteered after Hurricane Mitch struck Honduras, and in 1999, the Professional Engineers of North Carolina was actively involved in the state's recovery efforts following Hurricane Floyd. These are just a few examples.

Currently, the New York State Society of Professional Engineers and the New York

Association of Consulting Engineers are taking action in response to the attack on the World Trade Center by recruiting engineers to assist in the search-and-rescue efforts and to help with the efforts that will be needed to get Manhattan back on its feet. Engineering firms that contract with the Port Authority of New York and New Jersey responded with disaster-relief assistance, and area construction companies came forward to volunteer their equipment to help in the search-and-rescue operations.

We as a nation have been changed by these events and so, too, have we as engineers. It's far too early to tell what those changes will be and what the full effect will be on the profession, but many questions come to mind. Will engineers ever design a skyscraper or public building without having thoughts of the horrific events of September 11? What steps can the profession take to prevent the possibility of similar tragedies? The engineers of the United States cannot build an impenetrable wall around the nation and they cannot make every building a bunker. The question is, what can we as a profession do? How shall we dedicate our professional knowledge and skill to the advancement and betterment of human welfare after such a tragedy?

Now we grieve, but it will soon be time to repair and rebuild. By nature, engineers are builders, creators, and problem solvers, and engineers have the skills to help solve the serious challenges that face our nation in the aftermath of these attacks. Professional engineers have expertise on the construction techniques needed for safe rescue operations; they know building integrity and structural design; they are the best prepared to assess the impact on surrounding structures, as well as the impact on utilities. PEs are also among the best qualified to assist in the cleanup, waste disposal, and rebuilding efforts.

In the near future, we will undoubtedly be called on to help improve security systems and upgrade structural codes and design. We will need to lend whatever technical assistance is necessary to ensure the safety of the public. As professional engineers, we must be ready to respond to whatever we are called to do.

NSPE is requesting its members' help. Engineers are needed to offer advice, help educate the public, or serve as experts for members of the press, in the following areas: construction techniques for safe rescue; building integrity and structural design; impact on surrounding buildings and structures; impact on underground infrastructure; and cleanup, waste disposal, and rebuilding. Please call 888/285-NSPE (6773) or send e-mail to dclinton@nspe.org.

A special message from NSPE President Dan Clinton, PE, F.NSPE and Executive Director Pat Natale, PE, F.NSPE.

DISASTER RELIEF ASSISTANCE

The New York State Society of Professional Engineers has expressed their appreciation for the generous offers of assistance, thoughts and prayers. To assist the relief effort with a blood donation, schedule an appointment with Stephanie Rosso (x715) at the Blood Bank of Hawaii 845-9966(Oahu) or 1-800-372-9966(neighbor islands). For monetary assistance, contact the American Red Cross Disaster Relief Fund at 1-800-435-7669 or visit www.redcross.org.

10/12/2001 STATE BOD MEETING

The state board of directors will meet on

Friday, October 12, 2001 at 8:30 am preceding the scholarship golf tournament. Under the leadership of president Kirk Tanaka, the board will discuss local and national issues including legislative and government affairs, professional licensure, continuing education, scholarships and MathCounts. Visit the website or contact your chapter and state officers with your comments.

10th ANNUAL SCHOLARSHIP GOLF TOURNAMENT

Play, Hack or do some grading at the 10th annual HSPE scholarship golf tournament on Friday, October 12, 2001 at the West Loch Golf Course. The tournament supports three students in the University of Hawaii engineering program. The format is individual medal play with a shotgun start at 12:30 pm. Visit the website or contact tournament chair Larry Agena or Royden Ishii at Belt Collins, phone 521-5361, or email: royden@beltcollins.com for registration information.

MEMBERSHIP WORKSHOP

The HSPE BOD, Chapter Presidents and Membership Chairs will participate in a membership workshop on Friday, November 16, 2001 on Oahu. NSPE membership consultant Annette Petrick will assist with this collaborative planning session. Please contact your Chapter officers or state Membership Chair Curtis Beck (969-0134) if you are interested in participating.

2001-2002 CHAPTER OFFICERS

Big Island Chapter Officers:

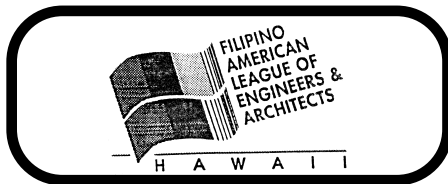
Officer	Name	Phone	FAX
President	Joe DeRego e-mail: derego@hilo.com	935-1102	969-4813
Vice Pres	Peter Boucher e-mail: pjb@ilhawaii.net	961-8338	961-8644
Secretary	Rich Bieker e-mail: rbieker@hei.com	969-0129	969-0135
Treasurer	Neal Herbert e-mail: ntherbert@aol.com	935-1946	none
St Dir	Robert Kaneshiro e-mail: rkanesh@aloha.net	961-3415	935-2065
Ch Dir	Hugh Ono e-mail: onohyjt@hgea.org	935-1342	959-2787
Ch Dir	Joel Nakamoto e-mail: okahara@aloha.net	961-5527	961-5529
Ch Dir	Nimr Tamimi e-mail: nimrt@aloha.net	968-8481	968-8482

Kona-Kohala Chapter Officers:

	Name	Phone	FAX
President:	David Hein e-mail: heinsite@ilhawaii.net	329-2484	329-7414
Pres-Elect:	Dan Lanterman e-mail: kailuadan@aol.com	322-8851	329-7457
Secretary:	Jay Uyeda e-mail: jaycarolyn@aol.com	325-8191	325-8195
Treasurer:	Chrystal Yamasaki e-mail: wta@ilhawaii.net	329-2353	329-5334
State Dir:	Gary Ashikawa e-mail: ksl@hiinfo.net	322-4000	883-9768
Ch Dir:	Stephen Green e-mail: whutilm@gte.net	883-9355	883-9768
	Tom Pack e-mail: tgkona@hawaii.rr.com	325-2216	325-1415
	Amy Rice e-mail: n/a	595-8559	595-7330

Maui Chapter Officers:

	Name	Phone	FAX
President:	Lesli Otani email: Lesli.Otani@co.maui.hi.us	270-7242	270-7972
Vice-Pres:	Brooks Aoki email: bya@wsue.com	242-4403	244-4856
Secretary:	Derick Yoro email: dgoro@maui.net	244-7630	244-8452
Treasurer:	Wendy Kobashigawa email: wendy.kobashigawa@co.maui.hi.us	270-7435	270-7975
State Dir:	Don Suzuki email: mori@maui.net	572-1745	572-6323



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

2001-2002 Officers and Directors

President	Oscar C. Paez, Jr.	676-2797
Pres-elect	Rogelio A. Urbi	693-8913
Vice-pres	Marites Calad-Shoji	671-3961
Secretary	Daina G. Legaspi	671-3460
Treasurer	Elvira Marie B. Pineda	780-2858
Asst. Treas	Diosdado M. Urgasan	836-7507
Auditor	Francisco T. Cruzata	677-9477
Bus. Manager	Gregorio S. Garcia	833-7985
P. R. O.	Zam Louie P. Criste	947-3405
Directors:	Joel L. Francisco	721-4440
	Armando P. Ines	486-7814
	Marcelino C. Labasan	422-8867
	Ricardo J. Magday	423-1771
	Leonard G. Obaldo	672-4538
	Alfredo A. Quibol	678-2572

INSTALLATION & ANNUAL AWARDS BANQUET

The 2001-2002 Officers and Directors listed above were installed, September 29, 2001 at the Sheraton Waikiki Hotel, Maui Ballroom.

Other committee chairs are listed below.

2001-2002 COMMITTEES

Membership

Chair: Leo Obaldo

Co-chairs: Zam Louie Criste, Daina Legaspi, Armand Ines, Andrea Benitez

Finance

Chair: Elvi Pineda

Co-chairs: Dado Urgasan, Joe Magno, Leo Obaldo, Andrea Benitez, Sally Belmes, Ric Magday, Ofelia Mendez

Professional Development

Chair: Marites Shoji

Co-chairs: Lyna Burian, Frank Cruzata, Emil Barroga, Jr., Frank Sapigao, Jun Suela

Special Events

Chair: Cecilia Villafuerte

Co-chairs: Joel Francisco, Marites Shoji, Marcie Labasan

Awards & Scholarship

Chair: Greg Garcia

Co-chairs: Manny Lanuevo, Leo Obaldo. Cathy Dungca

Athletic

Chair: Fred Quibol

Co-chairs: Leo Obaldo, Armand Ines, Marcel Raza, Joel Francisco, James Baclig

Nomination and Election

Chair: Roger Urbi

Co-chairs: Frank Cruzata, Emil Barroga, Jr., Elvi Pineda

Information and Publication

Chair: Zam Louie Criste

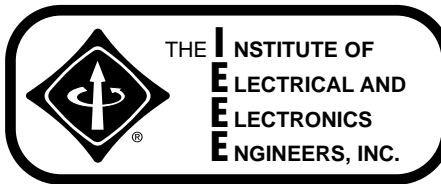
Co-chairs: Daina Legaspi, Dado Urgasan, Fred Quibol, Frank Cruzata

Filipino Community Center

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CONGRATULATIONS and GOOD LUCK to ALL!



IEEE Hawaii Section

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Email: sec.hawaii@ieee.org
Web Page: <http://community.hei.com/ieee/>

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Prof. Act:	Grant Torigoe	945-2984
Stud. Act:	Tep Dobry	956-9740

IEEE October meeting

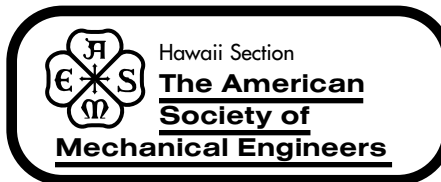
Date: October 17th

Site: UH Manoa Campus Center cafeteria

Time: 6:00 pm

Subject: Career Opportunities for UH Engineering students

Speakers: Various speakers from different industries will present career opportunities for UH Engineering students.



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HONOLULU FIRE DEPARTMENT / HAWAII SFPE SEMINAR PRESENTATION UNIFORM FIRE CODE SEMINARS

October 22, 23, & 24, 2001

DAY 1

Monday October 22
CONTAINER STORAGE FOR FLAMMABLE AND COMBUSTIBLE LIQUIDS-ARTICLE 79

DAY 2

Tuesday, October 23
IN HARM'S WAY-ARTICLE 80 HAZARDOUS MATERIALS STORAGE REQUIREMENTS

DAY 3

Wednesday, October 24
HANDLE WITH CARE-ARTICLE 81 HIGH-PILED STORAGE REQUIREMENTS

Location: McCoy Pavilion, Ala Moana Park

Time: 7:30 am - 4:30 pm

Instructor: Douglas Hall, Deputy Fire Marshall, City of Westminster, Colorado

Cost: \$225 (\$150 for SFPE members and chapter friends)

Deadline: Registration deadline is Friday, October 19

This seminar is for architects, building and fire officials, plan reviewers and inspectors, fire protection engineers, insurance loss control representatives, fire inspectors, and building engineers.

For further information, contact Sam Dannaway, ph:526-9019, FAX:537-5385, email: seminars@sfpehawaii.com

WILIKI AD

ASCE, from page 6

Rights of Way Access Advisory Committee (PROWAAC) and other current issues. Case studies will be presented by nationally recognized experts and will be followed by a panel discussion. The speakers will include:

Francine Wai - Executive Director, Disabilities and Communications Access Board

Mike Medeiros - State of Hawaii, Department of Transportation

Jerry Markesino - Chair, Public Rights of Way Access Advisory Committee

Bill Hecker - Hecker Design, Ltd.

Mark Obatake - Hawaii Centers for Independent Living

The one-day workshop will be held on October 25, 2001 at the Pagoda Hotel on Oahu. For more information, please contact Keith Niiya at 533-3646 by telephone or kniiya@atahawaii.com by email, or log on to the ASCE Hawaii Section website at www.asce-hawaii.org.

HELP CELEBRATE ASCE's 150th ANNIVERSARY

ASCE is the nation's oldest national engineering society. From October 2001 through November 2002, events have been scheduled to celebrate ASCE's 150th anniversary and focus on how civil engineering has shaped the past 150 years. Please contact Delwin Ching (dching@hgea.org) to find out more information and how you may assist in this effort.

WIN A PRIZE BY RENEWING YOUR MEMBERSHIP EARLY

If you renew your membership by November 1, 2001, you could win a high-end IBM laptop PC or color Palm Pilot, and be eligible to win additional prizes. If you renew by December 1, 2001, you could win a laptop, Palm Pilot or attractive gifts; and be eligible to win additional prizes. If you renew by December 14, 2001, you could win a Palm Pilot or one of many attractive gifts. Please contact our membership chair, Stacie Saito, at 449-9195 or Stacie.Saito@hickam.af.mil for more information.

When you renew your membership, don't forget to pay section membership dues. Only Hawaii Section members are able to keep up with local events through our website.

HAWAII SECTION MEMBER RECOGNIZED FOR CONTRIBUTIONS DURING ASCE 2001 MEMBERSHIP DRIVE

Let's all extend our congratulations to Stacie Saito who has been selected as the 2001 Outstanding Membership Chair. This award recognizes Stacie's dedicated efforts to ASCE's membership growth and retention.

GET CONNECTED AND KEEP UPDATED

Do you currently receive ASCE dinner meeting notices by e-mail? If not, you are not on the ASCE e-mail list. Sign up now to receive quick updates on ASCE activities such as legislative affairs, Section meetings, and field trips. Visit our website at www.ascehawaii.org and register to be on the ASCE e-mail list. There is no charge. However, you must be a current member of the Hawaii Section and have your ASCE membership number available when registering.

Show your support for our Civil Engineering students

Send your donations for the ASCE Endowed Scholarship Fund to the attention of Joanna Seto at the ASCE Hawaii Section address.

See also Page 11

KNOW YOUR ASCE HISTORY

by C.S. Papacostas

In his "Fragments of Hawaiian History," John Papa Ii describes his first climb down the Nu'uuanu Pali when he was a boy: "The party continued, climbing to Nuuanu Pali, and then down. The boy was not actually led, but his father clung to his hand until they reached a safe place, away from the sheer drop of the cliff."

Not even that treacherous footpath was there 15 or 20 years earlier, in 1795, when Kamehameha pushed Kalanikupule's Oahu warriors to the precipice during the battle of Nu'uuanu, forcing many of them to leap to their death.

By Samuel M. Kamakau's account in "Ruling Chiefs of Hawaii," "Keanini was the first to clear and widen the road and let in the light of the sun. He improved the road in order to draw lumber for building the Kawaihae church. The logs were cut in Ko'olauloa, brought by canoe to Kane'ohe, and hauled over the Pali." This happened around 1825 since the church was completed in 1829. Materials for its construction were also obtained from other places, including Waianae.

In an article entitled "The Path of Progress over the Pali" that first appeared in the November 1980 issue of the "Honolulu Magazine," Rick Sepien says that, during the 1830s and 1840s, missionaries constructed steps at the steepest portions of the 5-ft wide path that reached gradients as high as 50%.

A road suitable for horses was jointly financed in 1845 by the government and planters who wanted easy access to the fertile lands on the windward side of O'ahu. Kamehameha III and two of his retainers were the first to cross on horseback. Sepien also says that Lili'uokalani composed "Aloha 'Oe" while riding her horse down the cliff. This may explain her inspiration for the song's opening line: "Ha'aheo ka ua i na pali" (Proudly by the rain of the cliff).

A \$2,000 legislative appropriation in 1857 facilitated road improvements that allowed the passage of carriages. The Rev. E. Corwin and Dr. G. P. Judd were the first to descend in this manner on September 12, 1861. Robert C. Schmitt ("Firsts and Almost Firsts in Hawaii") notes that it was two years later that the first wagon traveled in the opposite direction, climbing up from the windward side.

Visiting the site in 1872 (or 1873), Isabella L. Bird writes in her "Six months in the Sandwich Islands" that she saw "a frightfully steep and rough zig-zag path cut out of the face of the cliff on our right. I could not go down this on foot without a sense of insecurity, but mounted natives driving loaded horses descended with perfect impunity" to the place where Kalanikupule's warriors' "bones lie bleaching 800 feet below." In 1896, W. W. Bruner, the chief highway engineer for the Republic of Hawaii was allotted \$40,000 to stake and construct a safe alignment.

This is when part-Hawaiian Stanford University junior engineering student John H. Wilson and his fellow student Louis M.

Whitehouse entered the picture.

(To be continued...)

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>.

ASCE YMF, from page 7

2002 Edmund Friedman Young Engineer Award

This award was established by Edmund Friedman, Past President of ASCE, to recognize the significant professional contributions of younger members of ASCE in the following areas: 1) service to the advancement of the profession; 2) evidence of technical competence, high character and integrity; 3) leadership in the development of younger member attitudes towards the profession; 4) contributions to public service outside of their professional career; and 5) other evidence of merit which, in the judgment of the award committee, has advanced the Society's objectives. No more than five (5) recipients nationally will be named in any one year. The deadline for nominations to ASCE National is February 1, 2001. For more information, contact Willie Gacutan at 847-3763, x212.

2002 Daniel W. Mead Contest for Younger Members

The Daniel W. Mead Prize for Younger Members was established in 1939 to honor the memory and accomplishments of the 67th President of the American Society of Civil Engineers. The talents of many of the leaders of the profession were first recognized in previous contests for this significant professional honor. The current contest provides another opportunity for alert young civil engineers to further their professional development and gain national attention. In recognition of the 150th Anniversary of ASCE (1852-2002), the Society is both celebrating its history and looking forward to its future. This year's Mead topic invites you to discuss the impact of ethics on the civil engineering profession in this context. The paper must be written on: "Ethics and Civil Engineering: Past, Present and Future". Points to ponder include 1) What ethical challenges will face Civil Engineers 50 years from now? and 2) Given the technological advances of the last 150 years, how will technology influence civil engineering ethics in the future? The deadline for papers to ASCE National is February 1, 2001. For more information, contact Willie Gacutan at 847-3763, x212.

2002 Collingwood Prize for Younger Members

This prize was instituted and endowed in 1894 by Francis Collingwood, past secretary of ASCE. The prize is awarded to the author or authors of a paper describing an engineering work with which the author(s) have been directly connected; or recording investigations contributing to engineering knowledge to which the author(s) have contributed some essential part; and containing a rational digest of results. Any mathematical treatment must show immediate adaptability to professional practice. The deadline for papers to ASCE National is

(continued on page 11)

ENERGY AWARENESS MONTH, from page 1

decline, unless new renewable energy projects are encouraged.

If you're not directly involved, you may not realize how much renewable energy costs have decreased over the past twenty years. Trends are shown in the graphs (to see a full-size version of the graphs, go to www.hawaii.gov/dbedt/ert/femp/cannon.html).

We've got new information on renewables, including an estimate of energy available for electricity from the best feasible (site-specific) projects. The development of just a portion of these projects could cost-effectively provide 10.5% of Hawaii's electricity by 2010, providing Hawaii with an overall economic benefit. If oil prices are higher than those projected by the Energy Information Administration in 2000, the economic benefits for Hawaii residents could be even greater.

So, that's why it's said that renewable energy is green - "dollar" green or "environmental" green, take your pick.

Four months ago, Lieutenant Governor Hiron signed into law Act 272. Although not technically a renewable portfolio standard, it does state numerical targets for quantities of electricity to be generated from renewable energy: 7% of net electricity sales by December 31, 2003, 8% by December 31, 2005, and 9% by December 31, 2010. Some expect that, in meeting the first two targets, the utilities will see the benefits of renewables and will maximize renewable energy use in the future.

Act 272 also provides for "net metering," in which small (under 10 kilowatts), privately-owned renewable energy systems can be connected to a home or business without having to install an additional electricity meter. During the month, the electricity meter will run forwards when the building is using energy and backwards when the renewable energy system is producing more than the building is using. This allows the renewable energy produced by the system to offset electricity used by the facility at other times and provides a benefit to the system owner. If more electricity is produced than is used over the course of a month, the excess power is "granted" to the utility (and is used by someone else). Net metering makes it easier for people to install small, on-site renewable energy systems.

So, whatever the reason — economics, technology, cost, self-sufficiency, environmentalism, patriotism — expect to see more renewable energy in the news, on businesses, and on homes. Someday we, too, may consider Hawaii to be an "energy rich" state, and use the royalties for our schools.



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ASCE YMF, from page 10

February 1, 2001. For more information, contact Willie Gacutan at 847-3763, x212.

2002 Young Government Civil Engineer of the Year

The Young Government Civil Engineer of the Year Award is presented annually to a distinguished young civil engineer employed in public service. Qualifications of the award nominees are judged on the following: 1) Excellent performance that has demonstrated leadership potential in public service engineering; 2) Evidence of high character and professional integrity; 3) Civic and humanitarian activities (community service); 4) Thirty-five years of age or less on December 31, 2001; and 5) Between 5 and 10 years of public service. Up to four (4) recipients may be designated in any year, no more than one from each zone. A national winner may be selected from the zonal winners. The deadline for nominations to ASCE National is February 1, 2001. For more information, contact Willie Gacutan at 847-3763, x212.

ASCE MEMBER COMPANIES IN THE WORLD TRADE CENTER

Listed below are engineering companies with offices in the World Trade Center complex, many of which employ ASCE members. The number of members listed includes only those who have provided their work address and company name. As some members choose not to provide this information, the listing below may not be complete.

New York Port Authority (Tower 1, 90th Floor) 121 Members, Status: Unknown

Washington Group (Including Raytheon Company & Ebasco Services)(Tower 2, 91st & 22nd Floor) 20 Members, Status: Unknown

SCOR U.S. Corporation (Tower 2, 23,24th Floor) 1 Member, Status: Unknown

Parsons Brinckerhoff Inc. (did not have an physical office in the Trade Center however they did have four engineers working with the New York Port Authority. All of the four engineers are accounted for.)

Message boards have been set up to help ASCE members connect with colleagues and friends who were working or traveling through the cities that were affected by the September 11th terrorist attacks. Members are urged to post a message on the board. Please go to: <http://ascecf.minus.com/Forums/Main.cfm>. Please continue to check the [asce.org](http://www.asce.org) Web site frequently for updates. Information currently available includes: Forensic Teams Announcement and Frequently Asked Questions.

FRIDAY MEDIA BRIEFING ARCHIVED ON WEB

Friday morning, the principle investigators of the teams ASCE recently established to study the devastation that occurred September 11, held a live telephone Media Briefing. During the hour-long briefing, the team leaders appealed to the media for still photos and video footage to aid in their investigation. They also discussed the procedure they will take for the study which will later be published and released to the public. To hear the briefing or read the transcript go to: <http://www.connectlive.com/events/asce091401/>

HOW YOU CAN HELP

ASCE strongly encourages its members to

respond to Red Cross appeals for blood donations and other forms of assistance. In addition to individual efforts, Sections, Branches, engineering firms and agencies are urged to work with the Red Cross on coordinated blood drives to meet the needs to build a U.S. blood reserve. Please call 800-GIVE LIFE or visit the Red Cross Web site at: <http://www.redcross.org/>. Donations are also being collected on the Red Cross Web site at: <http://www.redcross.org/>. To Volunteer Your Services

To offer assistance in the event additional volunteers are needed, please send an e-mail with your qualifications and proximity to NY and DC to: disasterresponse@asce.org.

LGSEA, from page 4

Miyasato will be attending LGSEA meetings during Metalcon.

STRATEGIC PLANNING CONFERENCE

The Strategic Planning Conference has been postponed to November or December 2001.

COMING EVENTS

October 4, 2001, 12:00 p.m. HI Chapter LGSEA Board of Directors Meeting at Hawaii Pacific Steel Framing Alliance conference room

MEMBERSHIP IN LGSEA

LGSEA membership is open to engineers, architects, and trades people interested in light-gauge steel framing. \$50 per year. Call Ron Iwamoto at 533-2210 for membership forms.

NATIONAL SAME SYMPOSIUM: COMPREHENSIVE FORCE PROTECTION 1-2 NOV 2001

You may recall that SAME is sponsoring a two day National Symposium on Comprehensive Force Protection in Charleston, SC on 1-2 November 2001. See <http://www.same.org/confprog.htm> and specifically <http://www.same.org/forceprot/force.htm> for contacts and schedule. This event has been in work for about eight months and occurs immediately after the Southeast Region conference, fall Board Meeting and Fellows Investiture in Charleston.

Recent tragic events in New York City and at the Pentagon underscore the need for education and understanding of design and construction issues our military and civilian engineers and architects face now and in the future.

The symposium is not academically oriented. Instead it focuses on the most current state of engineering design technology for the engineers and architects involved in the design of military and other federal built environments. The emerging DOD antiterrorism criteria for building design will be presented along with new criteria for earthquake, wind and flood design. They are obviously related and mutually supportive.

The program offers a unique education opportunity for the practicing designer that will be valuable in preparing and managing cost-effective designs to combat terrorist threats.

Pat M. Stevens IV, Maj. Gen., US Army, Ret. Executive Director, SAME

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