

## ASME HAWAII PAST-CHAIRMAN NOW ADJUTANT GENERAL

On December 26, 2002 Governor Linda Lingle announced the appointment of Major General (HI) Robert G.F. Lee as the Adjutant General, State of Hawaii, Department of Defense, effective January 1, 2003. This was an important appointment for the Hawaii Section of the American Society of Mechanical Engineers (ASME) because General Lee is a Past-Chairman of the Hawaii Section serving as chairman in 1985-1986. He had climbed the Hawaii Section ladder from secretary to treasurer to vice-chairman and finally to chairman.



General Lee was also one of the organizers and trustees of the ASME-HI Francis Rhodes Montgomery Foundation, which sponsors the annual Department of Mechanical Engineering, University of Hawaii at Manoa, Senior Design Competition. Francis R. Montgomery was one of the founders of the Hawaii Section of ASME. He retired from Hawaiian Electric Company in 1979 as Vice President of Engineering. Subsequent to his passing in 1985, the Montgomery family, wanting to recognize Mr. Montgomery's accomplishments, approached General Lee and the Hawaii Section for ideas. A scholarship was first suggested, but Mrs. Margaret Montgomery wanted something different and more meaningful. Thus the Design Competition was established in Francis Rhodes Montgomery's honor for his support and dedication to mechanical engineering. General Lee along with Gary Ishikawa (past-chair 1986-1987) and Kent Murata (past-chair 1983-1984) were trustees of the foundation from the beginning of the competition until this year when the responsibilities were shifted to current officers of the Section.

As Adjutant General, General Lee is the Director of State Civil Defense and heads the Hawaii National Guard. Previous to his appointment as adjutant general, he served as Commanding General of the 9th Regional Support Command, U.S. Army Reserve- Hawaii from February 8, 1999.

Currently General Lee also provides direct support to the Office of Veterans Services, and

is co-chair of the State Steering Committee that orchestrates the 50th Anniversary Commemoration of the Korean War (2000-2003).

General Lee's military career began in May 1971 when he received his commission through ROTC at the University of Hawaii at Manoa. Upon completion of the Air Defense Artillery Basic Course, he was assigned to the U.S. Army Reserve and served as platoon leader in the 411th Engineer Battalion and the 322nd Civil Affairs Group.

In 1972, General Lee was assigned to the 100th Battalion, 442nd Infantry, and served in successive assignments as mortar platoon leader, company executive officer, company commander, assistant battalion operations officer, and battalion operations officer. In 1980, he served two years on active duty assigned to the 100th Battalion, 442nd Infantry, as assistant air operations officer.

In 1982, General Lee was reassigned as ground liaison officer, corps operations staff, IX Corps (Reinforcement). In 1988, he returned to the 100th Battalion, 442nd Infantry as its commanding officer. In 1991, following command, he served as assistant chief of staff for operations and training, IX Corps (Reinforcement)/9th Army Reserve Command. In 1996, he was appointed to chief of staff, 9th ARCOM.

General Lee's civilian career includes service as the Pacific area general manager for Perot Systems Government Services, formerly ADI Technology, and superintendent of nuclear regional maintenance for Pearl Harbor Naval Shipyard's nuclear submarine program.

General Lee holds a Bachelor's degree in Mechanical Engineering and a Master's degree in Business Administration from the University of Hawaii at Manoa. He is a licensed professional engineer in mechanical and nuclear engineering. His military education includes the Army War College, the Command and General Staff Officers Course, the Infantry Officer Advanced Course, and the Air Force Ground Operations School. His awards and decorations include the Legion of Merit, the Meritorious Service Medal, the Army Commendation Medal, and the Army Achievement Medal.

General Lee and his wife have a son and a daughter.



Hawaii Section  
**The American  
Society of  
Mechanical Engineers**

Website: [www.asme.org/sections/hawaii](http://www.asme.org/sections/hawaii)

### 2003-2004 OFFICERS

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Vice-chair	LCDR John Markowicz	484-9164
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Secretary	Sam Gillie	543-4739
Past-chair	James Grogan	254-2947
Dir 1 yr	Ed Chang	543-4227
Dir 2 yr	Ron Flegel	455-0254

### HAWAII SECTION RECOGNITION OF 25 & 50-YEAR MEMBERS

Date: Tuesday, December 9, 2003 (Tentative Date)

Time: 6:00 p.m. to 8:00 p.m.

Place: All Star Hawaii Café Restaurant & Bar, 2080 Kalakaua Ave. (King Kalakaua Plaza), Waikiki. The parking entrance is on Kalaimoku Street. Take Kalakaua heading Diamond Head and turn left on Kalaimoku (one-way street). Visit the All Star Hawaii website at [www.all-starhawaii.com](http://www.all-starhawaii.com) for more information.

All members are invited and encouraged to attend. Order from the All Star reasonable and tasty menu and keep your own tab. We will honor Hawaii Section members who have achieved 25 and 50 years of membership. This is a great accomplishment considering today's life style. Please join us for an enjoyable evening of socializing. Contact Ray Liu for more information.

### ASME-HI EXECUTIVE COMMITTEE AND JOINT SENIOR-STUDENT SECTION MEETING

On October 14 a joint Section meeting with the Student Section was held at the HECO Ward Avenue meeting facilities. Student Section Faculty Advisor, Dr. Mehrdad G. Nejhad, attended this meeting with Student Section Chair, Karl Santa; Vice-Chair, Jodi Ichimura; Secretary, Mike Parker; Treasurer, David Katsuda; and Webmaster, Randy Sakagawa. The students gave an overview of their Section activities and a PowerPoint presentation on the upcoming Human Powered Vehicle (HPV) competition and the fundraising activities planned.

The UHM DME HPV program has been very successful in the past, always placing high besides winning two national competitions. The HPV team fundraising goal is \$14,000 for design and construction expenses and to compete on the mainland. Those who wish to help can make a charitable deduction donation

(continued on page 8)



Published monthly by:

HAWAII COUNCIL OF ENGINEERING SOCIETIES

SERVICE PRINTERS, INC.

1829 Dillingham Boulevard • Honolulu, HI 96819  
 Telephone: (808) 841-7644 • Fax: (808) 847-1487  
 ADDRESS ARTICLES FOR PUBLICATION TO:  
 WARREN YAMAMOTO  
 1526-C Pukele Avenue • Honolulu, HI 96816  
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Additions and/or corrections should indicate the proper society, institution or association.

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P.O. Box 2873  
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Treasurer	Fred Smoot	841-7617	833-6125
Past Pres	Richelle Suzuki	541-2530	541-2700

**NOVEMBER 2003 MEETING NOTICE**

Speaker: Lin Zhang, UH CEE Ph.D. Candidate and Winner of ITE District 6 Student Paper Award

Date: Tuesday, November 18, 2003  
 Time: 11:45 a.m.  
 Location: Belt Collins Conference Room  
 Address: 2153 North King Street, Suite 200  
 Topic: Freeway Travel Time Estimation: Case Study in Honolulu  
 Cost: \$8.00 for Members/Guests and \$5.00 for Students  
 RSVP: Noon on Tuesday, November 11, 2003

Please call Matthew Alonzo at phone 737-1875 or send email message to [h2ite@hotmail.com](mailto:h2ite@hotmail.com) by noon, Tuesday, November 11, 2003 to make your reservations. Payment will be collected at the meeting.



**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

**SFPE Hawaii Luncheon Seminar**

**WATER-LESS FIRE PROTECTION**

Presented by:  
 Marvin Charney, P.E., Kidde-Fenwal  
 Date: November 18, 2003  
 Time: 11:30 pm to 1:00 pm  
 Location: Hale Ikena, Fort Shafter Golf Clubhouse  
 Cost: \$20.00 (\$15.00 for SFPE Members and Chapter Friends)  
 Please call 526-9019 for a reservation or email us at [info@sfpehawaii.org](mailto:info@sfpehawaii.org)

**Next Deadline for Wiliki is November 15th**

**CALL FOR EXHIBITS**

**Increase public awareness and appreciation of your engineering profession.**

- Exhibits will be displayed at Kahala Mall Shopping Center
- Exhibition period from Saturday, February 21st, 2004 (10 AM) through Sunday, February 29th, 2004 (4 PM).
- Set-up Friday, February 20th or Saturday, February 21st before 10 AM; Dismantling Sunday, February 29th after 4 PM or Monday, March 1st.
- Entries will be judged on presentation, technical merit and effectiveness at promoting the engineering profession

**Deadline for entries is January 23, 2004**

**Fax or E-mail completed form to Horst Brandes at:956-5014 or [brandes@wiliki.eng.hawaii.edu](mailto:brandes@wiliki.eng.hawaii.edu)**

Name of Organization: \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone No.: \_\_\_\_\_ Fax No.: \_\_\_\_\_

E-mail: \_\_\_\_\_

Description of Display: \_\_\_\_\_

Representative at Banquet (February 28th)

(Banquet Fee Required)

Any Special Requirements: \_\_\_\_\_

Tentative Schedule (Date & Time) for Set-up: \_\_\_\_\_

Dismantle: \_\_\_\_\_



www.eng.hawaii.edu/~hspe

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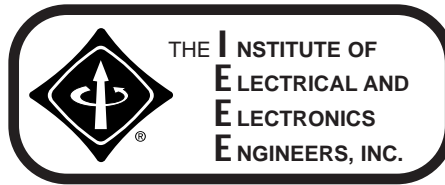
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 CHAP DIRS. Steve Green  
 Jeremy Michelson  
 Bruce Witcher

### Board Meeting Highlights

September 26, 2003

- Ten \$1,000 scholarship checks were awarded by HSPE this year to selected high school students pursuing college engineering degrees.
- The Education Fund Golf Tournament held at the Hawaii Price Golf Course last month was a huge success, with 156 entrants...a record turnout. Committee members and sponsors were thanked for their hard work.
- Current HSPE enrollment is 268 engineers. It was suggested that we tie our membership drive to the 2004 NSPE Annual Meeting by inviting prospective members.
- The main topic was the forthcoming National Society of Professional Engineer's Annual Meeting which will be held at the Ilikai Hotel next July. Plans include a fund-raiser, tours, exhibits and a weekend luau. The Board selected the Habitat For Humanity as its legacy project with fund-raiser proceeds going toward construction of a home sponsored by NSPE. More will be published on this conference as arrangements are firmed.



### 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)  
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 (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)

### VOLUNTEERS NEEDED FOR SECTION OFFICERS

The time for holding elections for officers of the Hawaii Section is fast approaching, and candidates for those positions are strongly encouraged. Depending on the position, you'd be managing the finances of the Section, organizing monthly general meetings, and representing Hawaii at IEEE meetings on the mainland. What would you like IEEE Hawaii to do? Run for office, and make it so. If you are inter-

ested, or just want more information, contact any of the current section officers - their email addresses are above. Give something back to your local engineering community!

### Proceedings of the Innovative Energy Systems Workshop

The proceedings of the Innovative Energy Systems Workshop held in Honolulu, Hawaii from March 19-21, 2003 are now available.

This two-day workshop presented the final results of the "Sea Water Air Conditioning Feasibility Analysis" project. Preliminary results from two other projects were also presented and discussed ("Integration of Energy Storage with Seawater Air Conditioning [SWAC] Systems" and "Application of the Kalina Cycle to Waste Heat Recovery in Hawaii.")

The workshop covered district cooling systems, SWAC, thermal energy storage systems, applications of the Kalina Cycle, and waste heat recovery. Selected invited speakers presented information on each of these topics. This workshop attempted to bring together mainland and international experts in energy storage systems, district cooling systems, and waste heat recovery with local experts in seawater air conditioning (SWAC) systems, in order to help commercialize such systems in Hawaii.

The proceedings of the Innovative Energy Systems Workshop are available on-line at: <http://www.state.hi.us/dbedt/ert/iesw2003/iesw2003.html>

If you would like an interactive copy of proceedings on a CD, please contact:

David Rezachek, Ph.D., P.E.  
 Alternate Energy Specialist  
 State of Hawaii-DBEDT-Energy Division  
 P.O. Box 2359  
 Honolulu, HI 96804  
 Telephone: 587-3814  
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	<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@hawaiiipacificengineers.com</i>		

**NOVEMBER DINNER MEETING**

Program: Dr. Daniel P. Abrams, Professor and Director of Mid-America Earthquake (MAE) Center, Professor and Director of Mid-America Earthquake (MAE) Center, Department of Civil and Environmental Engineering, University of Illinois Urbana-Champaign; Bob Y.K. Wong Distinguished Visiting Professor at University of Hawaii, 'Consequence-Based Engineering - Seismic Risk Analysis'

Dr. Abrams will speak on methods to minimize consequences from future earthquakes. Decisions based on a probabilistic analysis of system outcomes constitute a rational means for engineers, owners and decision makers to select appropriate courses of action when faced with uncertainty.

Date: Thursday, November 20, 2003.

Location: Treetops at Paradise Park  
Manoa Valley

Time: 5:30 p.m. - Social Time

6:30 p.m. - Dinner

7:30 p.m. - Program

9:00 p.m. - Adjourn

Menu: Multi-entree buffet

Cost: \$22.00 for Hawaii Section members  
\$25.00 for non-section members  
and guests

\$11.00 for University of Hawaii at  
Manoa Student Chapter members

Please make check payable to "ASCE-Hawaii Section." Mail to Phillip Ooi, ASCE Treasurer, c/o Department of Civil & Environmental Engineering, University of Hawaii at Manoa, 2540 Dole Street, Holmes 383, Honolulu, Hawaii 96822, postmarked by Monday, November 17, 2003. Reservations for the dinner meeting to Phillip Ooi by Monday, November 17, 2003, by phone at 956-8512, fax at 956-5014, or email at *ooi@wilki.eng.hawaii.edu*.

**EXECUTIVE COMMITTEE MEETING**

October 2, 2003

**2003 CALENDAR OF EVENTS** (subject to change)

December 2003 - Joint Luncheon of ASCE, HWEA and AWWA.

**2003 ASCE HAWAII SECTION OCEA AWARD**

Congratulations to all nominees and participants in this event. Presentations of the nominated projects were highlighted and the winners were announced at the October Annual Banquet.

**PROCUREMENT WORKSHOP**

The ASCE Hawaii Section would like to thank the Hawaii Local Technical Assistance

Program (Hawaii LTAP), the American Public Works Association (APWA), the American Council of Engineering Companies of Hawaii (ACEC), and the many individual volunteers who helped make this workshop held on October 30, 2003 at the Neal Blaisdell Center Exhibition Hall a success!

**RENEW YOUR ASCE MEMBERSHIP EARLY AND WIN A PRIZE**

If you renew your membership by December 1, 2003, you could win an Apple iPod 30GB Digital Audio Player, or one of many attractive gifts, and be eligible to win additional prizes. If you renew by December 14, 2003, you could win a Gateway 42" Plasma Television, with guaranteed delivery by the holidays, or other attractive gifts. Please contact our membership chair, Lori Nishida, at 533-3646 or *lnishida@atahawaii.com* for further information.

**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)
- Hawaii Pacific Engineers (Civil and Civil/Environmental Engineers - Honolulu)
- Hida Okamoto & Associates, Inc. (Civil Engineer - 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](http://www.ascehawaii.org).

**MEMBERSHIP DRIVE**

ASCE counts on our members to help us grow every year by actively participating in the Member-Get-A-Member Drive. The drive is now year-round and offers great new prizes, such as cash rewards, gift certificates, digital cameras, personal digital assistants, LCD TVs and more. For most prizes, all you have to do to be eligible to win is refer a colleague. This is a great time to help out your colleagues while also helping ASCE find new members. Take a minute to think about the people in your professional life who could benefit from membership. Visit [www.ASCEDrive.org](http://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@hawaiiipacificengineers.com*

**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@hawaiiipacificengineers.com</i>	
Student Chapter President	Meris Ota	956-5808
	<i>merisota@hotmail.com</i>	

**Next YMF General Meeting**

The next two general YMF meetings are scheduled for Tuesday, November 4, 6:00 p.m. at Cheerleaders Sports Bar & Grill in Moanalua Shopping Center and December 2, 6:00 p.m. at Lamariana Restaurant and Bar located at 50 Sand Island Access Road. If you are interested in attending to find out what the YMF is all about and how much fun we have, please call Jamie Hikiji at 521-3051.

Incoming and Outgoing YMF Officers and Committee Chairs

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

**2003-2004 YMF Officers**

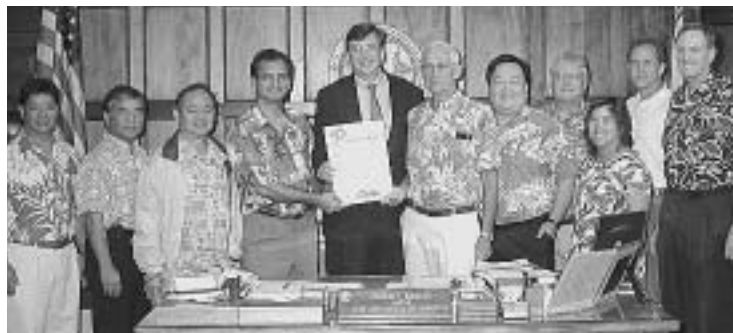
	Incoming	Outgoing
President/Director:	Jamie Hikiji <i>jhikiji@ascehawaii.org</i> 521-3051	Jeff Kalani
Vice President:	Paulette Chang <i>Hawaiiymf@yahoo.com</i> 471-3713	Jamie Hikiji
Secretary/Admin.:	Scott Jennings <i>sjennings@rci-group.com</i> 845-8440	Lori Nishida
Treasurer:	Geoff Ries <i>gries@wilsonokamoto.com</i> 946-2277	Paulette Chang
Student Chap. Pres.:	Ronald Malalis 956-5808	(continued)

**2003-2004 YMF Committee Chairs**

	Incoming	Outgoing
Community Activities:	Eric DeRuyter	Jon Yoshinaga
Social Activities:	Jon Yoshinaga	Ann Mukai
Awards:	David Koseki	(continued)
Student Relations:	Chris Souza	(continued)
PE Refresher Course:	Lorna Heller	(continued)
Newsletter:	Lori Nishida	(Geoff Ries)
Webmaster:	Joanna Seto	(continued)
Annual YMF Golf Tourn.:	Brennon Morioka	
Job Shadowing:	Scott Jennings	(continued)

**ASCE Job Classified**

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



**HCES member society representatives met with Mayor Harris for signing of proclamation declaring 2003 Engineers Week.**

2002



### Kehena Point

This very interesting structure is built on a small peninsula cliff, projecting into a turbulent coastal area. But, it is also a dramatic site composed of crashing waves and salt spray. The natural concrete was the perfect material for the setting, both visually and functionally.

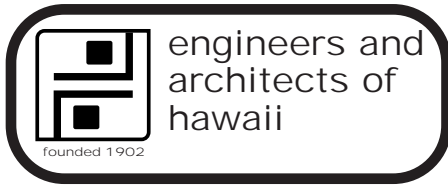
### NEW SINGLE-FAMILY RESIDENCE AWARD

OWNER:  
Private Owner

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D. Bona Designs

STRUCTURAL ENGINEER:  
Ray W. Keuning,  
Structural Engineer

GENERAL CONTRACTOR:  
Michael F. Lynch



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

#### OFFICERS FOR 2003 - 2004

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Director: Mary Ellen Nordyke-Grace  
(2 year term)  
Ron Boyle (2 year term)  
August Ahlf

EAH's annual banquet will be November 15th Hilton Hawaiian Village. Price will be \$40. Honoring our Emeritus Members. Contact Ralph Dobson 543-4754.

#### November Meeting Program

Bill Warren, Program Chair

**Nov. 7th**, No Meeting Memorial Day.

**Nov 14th**, Speaker: **David Hancock, Project Engineer; WESTCON Microtunneling, Inc.** Subject: **Design/Engineering the KALAHEO Project using micro-tunnels.**

The speaker will give a brief history of micro-tunnels in Hawaii, including one of Westcon's first projects, the use of micro-tunnels to cross under the entire runway complex of Honolulu International Airport while planes were continuing to use the airport without interruption. The speaker will review latest engineering techniques for microtunneling particularly those being used at the present time on the Kalaheo Street job. He will describe current problems and innovative methods being used as work progresses. He will then outline plans for completion of the project and invite questions.

**Nov 21st**, Speaker: **Jack H. Scaff, MD FACS** **Founder of the Honolulu Marathon. Subject: Cholesterol Conundrums; Heart Healthy Diets; and Other Nutritional Nonsense.**

The speaker will discuss the widespread interest in cholesterol as an indicator of possible heart problems. In particular he will discuss various popular diet programs that have been proposed to 'control cholesterol' and thereby supposedly reduce danger of heart attacks. Dr. Scaff will use his extensive training and experience in medicine, particularly in sports medicine, to critically examine the various claims made for specific diets.

#### Nov 28th No Meeting Thanksgiving

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](mailto:sgillie@hei.com).

#### Meeting Notes for Friday Meeting September 26th, 2003

As part of a service message, Kai Andrade advised EAH members on ways to help avoid sewer spills. Mel Lepine related that one day across from his house near Kahala Mall, men

were working in a sewer manhole. He went to investigate and found them digging out grease by the shovel full. It reminded him of the story of one of the owner's of a Chinese restaurant at the mall, saying that he didn't have any trouble with his grease trap. He just cleaned it out everyday with steam.

**SPEAKER: Austin Nakoa, Nakoa Companies** **SUBJECT: "Repair of The Haiku Stairs."** Austin started by saying the repair of the Haiku stairs took a lot of teamwork between the Nakoa Company and Consulting Structural Hawaii. The designer Vince Oue walked the stairs numerous times to establish the existing conditions. He also helped prepare the presentation. The Nakoa Company is a Native Hawaiian owned company. This was an unusual project for them because they usually are involved in more asbestos or lead abatement or other environmental related work. The project did have environmental aspects. There were endangered plants on the project.

The Haiku stair is in the Haiku valley along the Koolau Mountain range. In about 1942 a transmitter was needed that was higher than the 600-foot transmitters at Lualualei. They needed a 2,900 feet high transmitter, so it was decided to use the natural features of the Haiku valley. The transmitter could reach as far as Japan. The first set of Haiku stairs were wooden. The stairs were needed to provide access to the transmitter on the ridge top. The stairs were replaced in the 50's with steel stairs. The transmitter was actually strung across the valley to the other ridge. The message key-punching were actually done in Wahiawa and sent to the transmitter by cable. The idea came from a transmitter built in Africa. It spanned 7200 feet across the Haiku valley and

was 1,200 feet above the ground at its lowest point. There was also an underground copper grid across the valley floor associated with the transmitter cable. The Coast Guard took over the facility in 1973, but with the advent of navigation satellites the facility was no longer needed. But the stairs remained popular with hikers. Particularly, in 1981 after there was an episode of Magnum PI, and there were about 200 people a day climbing the stairs. Austin does not know of any instances of people falling or getting hurt.

The Friends of Haiku Stair is a non-profit group that helped in the efforts to restore the stairs. Austin met with this group to find out as much as possible on the stairs. They were very helpful in identifying some of the problem areas. When they started there were three missing modules or stair sections. To get pass the missing modules one would have to pull yourself up with ropes, with a 1,500-foot drop if you slipped.

**Facts:** The stairs start at elevation 400 and end at elevation 2820. There are 595 modules and 3,922 steps. It is almost a full mile vertically. The average slope is about 30° but there were some that were 58° or 60°. Austin told Neal, they didn't see a lot of inspectors on this job. Modules 113, 145 and 146 were missing. They planned not to replace 145 and 146 till last so to keep some of the hikers off the trail. But this didn't really work as well as their "KEEP OUT" sign. There were old construction anchors at 244 and 449 for the old cable car that was used during installation of the transmission wire. These were used for staging points and helicopter landing areas. The

(continued on page 9)

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- Corrosion Protection/Mitigation systems
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- Question & Answer session

**Date:** November 4, 2003 • Pagoda Hotel • 8:05 a.m. - 11:30 a.m.

**Speakers:** David Kraft, Ph.D., P.E.; Dave Raaf, President/CEO, Atlas Systems, Inc.; Joseph Enright, RME & President, Structural Systems, Inc.

Continental Breakfast 7:30 a.m. • RSVP October 20, 2003

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Treasurer	Glenn Isidro	533-2210	533-2686
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Director	Jim Walfish	737-0141	734-2177
Past President	Brian Ide	536-2108	521-3000

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Program:	Mike Kasamoto		
Technical:	Bennett Fung		
Membership:	Adrian Lee	536-7692	537-9022
Sponsorship:	Garett Muranaka	946-2277	946-2253
Directed R&D:	Jim Walfish		
Specifications:	Brian Ide		
Website:	Eric McKelvie		

**November Membership Event**

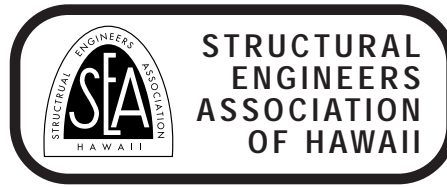
Nov 24th: "Design Standards and Methods for Light Gauge Steel Trusses" presented by Dr. Roger LaBoube, Professor of Civil Engineering at University of Missouri Rolla and Director of the Wei-Wen Yu Center of Cold Formed Steel Structures. Time 2:00- 5:00pm. Place TBA. "Dr. Laboube is a leading authority in the field of light gauge steel and he will present truss design using the current AISI Specifications. This three-hour seminar is a must for individuals interested in the growing industry of light gauge steel trusses. This seminar will be immediately followed by a LGSEA and Hawaii Pacific Steel Framing Alliance membership meeting featuring a panel of local steel truss authorities discussing the costs, benefits, and challenges of light gauge steel trusses for construction in Hawaii." Please email Akira Usami at [ausami@dietrichindustries.com](mailto:ausami@dietrichindustries.com) or call 682-5747 for more information.

**General Membership Update**

The chapter has been extremely active in creating programs for the membership this year. The chapter has submitted two items for review by the National LGSEA. One is the revised Chapter Bylaws, which will allow more flexibility for the chapter to operate and maintain a healthy roster of officers and directors. The second item is a spreadsheet intended to maximize the effectiveness of each fastener. The spreadsheet condenses the AISI Specifications to produce faster results. This will be made available to the membership upon completion of its review.

Program committee has aggressively set up multiple jobsite visits this year. In March, we visited a steel framing panelization facility to

(continued on page 9)



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**2003 OFFICERS & DIRECTORS**

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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

**HIGHLIGHTS OF BOD MEETING**

October 2, 2003

**Committee Reports:**

Gary Chock reported on the status of IBC 2003 adaptation by the City & County of Honolulu. Besides the IBC, the city is also considering the possibility of adapting the International Residential Code (IRC) 2003. The target date for completing the Building Code amendment is Spring of 2004.

Gary reported numerous differences between the 1997 UBC and the 2003 IBC. Some of the differences are: Seismic design, wind design, testing and inspection, and fire safety.

Anyone interested in helping the Building Code Committee to draft the structural portion of the proposed City amendment, please contact Gary Chock to find out the time and date of

the next committee meeting. Joining the building code committee is a great way to learn more about the new code and provide community service at the same time.

The SEAOH will look into the possibility of putting together two seminars regarding the IBC 2003. 1) Highlights of the Honolulu City & County Amendments and the differences between the IBC 2003 and 97 UBC. 2) Structural Design using the IBC 2003.

Gary reported that the County of Hawaii included in their proposed amendment to adopt the 1997 UBC a new rule that allows immediate issuance of the building permit upon execution of the form that states the Architect or professional engineer has designed the structure in accordance with the County's building code and that the construction of the structure will be in accordance with the County's building code for R-3 and U Occupancies. The SEAOH board is concern with possible abuse of this rule. If anyone has any comments, please forward them to Gary Chock or Randy Chu.

The AISC Practical Steel Design Seminar held on 10/2/03 was a great success. More than 100 people attended this seminar.

**New Business**

Tom announced the SEAOH board candidates during the lunch general membership meeting. The candidates are: President - Randy Chu; Vice President - Bennett Fung & Beverly Ishii - Nakayama; Secretary - Shawn Matsumoto & Garett Muranaka; Treasurer - Brian Kung & Jonathan Murai; Directors (2 new positions) - Paula Daligcon, Dean Doi, Wayne Kawano. New nomination was solicited with no

(continued on page 9)



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 Treasurer: Marian Nakama 836-1900 x234  
 Directors: Lloyd P.C.W. Lee  
 Michael Y. Magaoay  
 Randolph H. Murayama  
 Wayne H. Nakamura

**2003-2004 EAAUH Scholarships**

Congratulations to the recipients of the 2003-2004 EAAUH Scholarships:

Joe Kwan, McKinley High School (CE)  
 Katrina Thompson, Waimea High School (CE)  
 Kelii Chuberko, Nanakuli High School (EE)  
 Richard Rodrick, Kapaa High School (EE)  
 Tappy Andrews, Waipahu High School (ME)  
 Windell Jones, Waipahu High School (ME)

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

Special thanks to the donors and sponsors of the EAAUH 2003 Golf Tournament for making these scholarship opportunities possible.

**Engineering Day (October 4, 2003)**

Each year, the College of Engineering invites high school students to visit their facilities in an effort to encourage enrollment with the engineering program at UH. This year the College hosted 240 students and parents from high schools across the state.

**Executive Committee Meeting**

October 16, 2003 (Summary to be included in the December Wiliki).

**ASME, continued from page 1**

through the University of Hawaii Foundation targeting the Department of Mechanical Engineering HPV project. Please contact Ray Liu if you have any questions.

**TOUR OF THE H-POWER "GARBAGE TO ENERGY" PLANT**

Jim Grogan has arranged for a tour of the H-POWER Plant. The details are as follows:

Date: Saturday, November 1 or 8, 2003 (Please check the ASME- HI Website for the date)

Time: 9:00 am to about 10:30 a.m.

Place: Meet in the H-POWER parking lot in Campbell Industrial Park located at the corner of Hanua and Komohana Street. The street address is 91-174 Hanua Street.

It has been quite a while since we last visited H-Power, and we are looking forward to seeing the modifications made since our last tour. We will visit both the RDF processing facility and the power plant. Wear hard sole and covered shoes. Hardhats, earplugs, and safety glasses will be provided at the plant. This will be a joint ASME-HI Section and Power Technical Chapter tour. You may contact Jim Grogan at 254-2947 if you would like to attend or if you need more information.



[http://www.geocities.com/hals\\_us](http://www.geocities.com/hals_us)

**OFFICERS FOR 2003**

President: Layton Nakao  
 Vice-Pres: Eric Hee  
 Secretary: Dennis Chong  
 Treasurer: Kevin Kea  
 Director: Erik Kaneshiro  
 Director: David Hatchell  
 NSPS Governor: Patrick Cummins

**EXECUTIVE MEETING HIGHLIGHTS**

Oct. 16, 2003

**COMMITTEE REPORTS**

Membership: Eric Hee) reported 176 reg.; 11 sustaining.

Education: Kendall reported on CE-211 fall semester.

NSPS Board of Governors: Pat Cummins reported on the Gettysburg meeting, report to be filed.

Programs: Kendall Hee reported that we may have one more program for the remainder of 2003.

Workshops: Kevin Kea reported on the Land Surveying Licensure workshop featuring James Kobashigawa, Pat Cummins & Wayne Teruya; TDS workshop with HUBS Hawaii Inc.; and Data Processing in NGS Format and Hawaii's Geoid Model with Ed Carlson.

**HALS 2004 Conference**

- 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: Chris Guerin, Tommy Oi
- Name Tags: Stacey Kimura
- Speakers Dinner: Erik Kaneshiro
- Proceedings: Layton Nakao
- Pre-conference: more discussion needed

**General Membership Meeting**

Oct. 30, 2003 @ESH – 6:00 p.m.

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

**PEARL HARBOR DRY DOCKS TOUR**

Vice-Chair LCDR John Markowicz, USN, is arranging a tour of the Pearl Harbor Navy Shipyard dry docks.

Date: Saturday, October 25 or November 1, 2003 (Please check the ASME-HI website for the date)

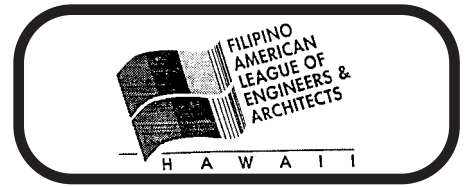
Time: Morning.

Place: Please check the ASME-HI website for meeting place.

These dry docks are historical (old) and will be interesting to see. Attendees will have to be U.S. citizens with a photo ID. Please check the ASME-HI website for details.

**TEAMS COMPETITION**

ASME-HI will again mentor and support the Mililani High School team. Leading the way is Ron Flegal. Please contact him if you would like to help mentor.



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**2003-2004 OFFICERS AND DIRECTORS**

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

**Board of Directors Meeting**

**Christmas Caroling Practice**

November 7, 2003; 6:30 p.m.  
 Norman Wright Mechanical in Waipahu  
 Call Marites Shoji @ 678-3916 or 294-4204 for details.

**Christmas Party**

December 14, 2003  
 Tentative location: Philippine Consulate  
 Call Elvi @ 697-8087 or 478-8650 for details.

**Christmas Caroling Dates**

December 19, 20, 21  
 Call Marci Labasan @ 422-8867 or 474-8308 for details.

**Welcome our new members:**

Joseph James Cachola  
 Ramon Bonoan Jr.

**Bowling Tournament**

Every Wednesdays.  
 Call Vergel Del Rosario @683-1146 or 838-8819 for more information.

**2004 Events/Activities**

Jan - EIT Review begins  
 June - Annual Picnic  
 August - General Assembly & Election  
 October - 11th Annual Awards & Installation Banquet

For general information, call Marites Shoji @ 678-3916 or 294.4202, [mshoji@normanwright.com](mailto:mshoji@normanwright.com). For membership information, call Greg Garcia @ 838-8814, [faleagreg@yahoo.com](mailto:faleagreg@yahoo.com).

**PE REVIEW ONLINE LIVE**

To prepare for the PE Exam, ASME and Fairfield University have partnered to offer an online course, PE Review OnLine Live. This course prepares you for the PE Exam, through the convenience of your computer, at home, in real time. The course begins in January 2004 and the cost is \$790 for ASME Members and \$820 for Non-Members. For more information, visit [www.asme.org/education/disted/peonline-live.htm](http://www.asme.org/education/disted/peonline-live.htm).

**FUTURE ACTIVITIES**

The following are activities that are planned:  
 2003 or 2004: ASME Distinguished Lecturer - William L. Dean, P.E., on "The Engineer as an Independent Business Person: How to Start Your Own Engineering Company." The date, time and place will be announced when information is received.

**EAH, continued from page 6**

microwave station is at 593.

The modules were like ship stairs. The stair treads could be turned or rotated, so the tread could be leveled depending on the angle or slope of the particular module on the ridge. The modules were anchored into the slope with 1 inch x 3 foot long spikes, which are epoxied. Modules were connected together at the ends. All modules had handrails. Most modules had a width of 1' 10", so there is not much room for hikers to pass. Some modules used for bridging had checker plate.

The initial contract was \$875,000 and the final contract was for \$950,000. They had 570 days to complete the project and they finished 6 months ahead of schedule. They used the old Coast Guard Station as a staging area. They started in July after they mapped out the endangered plants.

It is a very hazardous hike, but their workers got very good at the hike. They hiked the trail everyday except Thursdays, when they restocked the trail with materials with the helicopter. This was fly day and the crew liked it because they didn't have to climb that day. One of their crew set a record of 35 minutes hiking to the top. It took 20 minutes to get down the trail. Austin wouldn't recommend trying this.


Weather was a factor because of the low clouds and fog. Austin commended Joe Allen their helicopter pilot. Austin explained the pilot was critical with the crew on a narrow ridge and helicopter with a swinging load could be very dangerous. The helicopter had a load capacity of 1000 pounds. Austin showed some spectacular pictures of stairs and mountain vistas.

**LGSEA, continued from page 7**

witness the flexibility of steel framing for manufacturing on a mass production scale. Other trips included viewing several new light gauge steel products for floor system and roof truss applications. We conducted a two hour seminar on light gauge steel research being performed at the University of Waterloo-Ontario in conjunction with the Canadian Sheet Steel Building Institute (CSSBI). This practical and educational seminar was presented by Dr. Steven Fox, Director of the CSSBI, and resulted in extremely positive feedback from attendees.

Our Directed Research and Development committee has taken on a life of its own as we have coordinated our research efforts with the resources of the University of Hawaii Civil Engineering Department. Working closely with Dr. Ian Robertson, the first test project started in early 2003 was a light gauge steel load bearing top plate. This load distributing element has been used in the past, with conservative designs due to calculated values. Multiple gauge combinations are being tested to determine if tested values significantly exceed design values. The results have been promising. Final results will be presented at a future program and new test assemblies are currently being proposed to Dr. Robertson.

Hawaii chapter continues to be the strongest chapter in the LGSEA due to the tireless efforts of our local membership. We are actively seeking others who are interested in the field of light gauge steel, please contact any of our officers or directors for more information.



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Secretary	CPT Sam Battaglia	438-2450
Treasurer	LT Kristina McGee	471-1170x250



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 College of Engineering

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Interim Associate Dean	Vassilis Symros
Interim Assistant Dean	Tej Dobry
CE Chair	Ronald Riggs
EE Chair	Todd Reed
ME Chair	Bruce Liebert
HCAC Director	Magdy Iskander

**SEAOH, continued from page 7**

new candidates being nominated. Nomination was then closed.

**New Member Applications**

By unanimous vote, Jimmy Lam, Stephanie Fung, Scot Listavich, Brent Uechi & Steven Young was voted in as Allied members, and Francisco Avila as Member.

David Tyree of American Forest & Paper Association applied as an Allied member. Please notify any SEAOH Officer prior to the December board meeting if you wish to comment on this prospective member.

**2003 Calendar of Events**

Next BOD meeting: Thursday, November 6, 2003, 4:00 p.m. at Zippys Vineyard.

Annual Installation Banquet: Saturday, January 31, 2004 at the Sheraton Moana Surfrider Hotel.

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