

wiki o hawaii



ENGINEER
OF HAWAII

VOL. 39 NO. 9

SERVING 2000 ENGINEERS & LAND SURVEYORS

FEBRUARY, 2004

2004 HCES Lifetime Achievement Award

Ted S. Kawahigashi

Ted S. Kawahigashi was born on April 19, 1936 in Kahuku, Hawaii. He is a graduate of St. Louis School and the University of Hawaii, where he earned his bachelor's degree in Civil Engineering in 1957. After graduation, he worked for the US Navy in the District Public Works Office (now called Naval Facilities Engineering Command) at Pearl Harbor as a civil engineer prior to reporting for active duty as a 2nd Lieutenant in the US Army.

After two years of active military duty, he returned to his old navy position in the Civil Branch. In 1960, the Navy used shipyard personnel to drive the piles for the Arizona Memorial, and Ted served as the field engineer for the pile driving operation. Following a short stint as a civil engineer with Hawaiian Telephone Company (Verizon) in the Land and Buildings Group, he relocated to Southern California in April of 1962, and took a position as a highway engineer with the California Department of Transportation (CalTrans). While with Caltrans, he continued in the US Army reserve before separation as captain in the Corps of Engineers in 1969. In 1968, he earned a Masters Degree in Civil Engineering specializing in hydrology and hydraulics from the University of Southern California.



(continued on page 9)

2004 Young Engineer of the Year

Lorna K.F.L. Heller

The Hawaii Society of Professional Engineers is proud to announce that Ms. Lorna K.F.L. Heller is the recipient of the 2004 Young Engineer of the Year Award. Ms. Heller was nominated by the American Society of Civil Engineers (ASCE) for her outstanding contributions to her profession and to the community. She graduated from the University of Hawaii with a Bachelor of Science Degree in Civil Engineering and is currently employed by the Honolulu Board of Water Supply as a Civil Engineer.

Ms. Heller is an active and contributing member of ASCE and has been for the past 14 years. She previously served as Director of the Society's Younger Member Forum (YMF). During her term as YMF President, the membership grew substantially, and she established a number of projects that the Forum continues to participate in. It was also during her term that she received several recognition awards from the National Society: Outstanding Young Civil Engineer in Public Section at the 1997 Western Regional Younger Member Council Conference, the 1998 Hawaii Section YMF nominee for Outstanding Young Civil Engineer in a Community Activity, and the 2001 Young Government Civil Engineer Award for Zone IV (Washington, Idaho, Montana, Oregon, California, Nevada, Utah, Arizona, and Hawaii). As a student member of ASCE, Ms. Heller co-chaired the 1992-93 Concrete Canoe Committee whose team finished second overall in the Pacific Southwest Regional competition. Due to her excellent leadership in ASCE and non-ASCE activities as a student, she received the UH College of



(continued on page 9)

HAWAII SOCIETY OF PROFESSIONAL ENGINEERS

2004 Engineer of the Year

Dennis K. W. Lee, P. E.

Dennis K. W. Lee, P. E., has been selected as the 2004 Engineer of the Year in recognition of his continuous years of service and contribution to both the engineering profession and the community as a whole. Mr. Lee is a local Hilo boy who graduated from Hilo High School and went on to complete his B.S. in Civil Engineering at the University of Hawaii at Manoa in 1970. He has been a registered professional engineer since 1975. His began his professional career working for the County of Hawaii as Civil Engineer I and ultimately worked his way up to Chief of Operations for Department of Water Supply and Director of Public Works. He also served as Supervisory Civil Engineer, Directorate of Facilities Engineering, for the U.S. Department of the Army at Pohakuloa Training Area on the Big Island.

Mr. Lee's primary ability is his willingness to serve in a volunteer capacity for numerous professional and community causes. Of very special recognition is the success of the 1993 National Society of Professional Engineers (NSPE) Annual Meeting held in Kona, Hawaii. This event was hosted by the Big Island Chapter, Hawaii Society of Professional



(continued on page 9)

2004 Student Engineer of the Year

Kurt Boehm

Kurt lived in Madrid until June 1990, attending the German School in Madrid, Grades 1 through 4. In 1990 his family moved to Erlangen, Germany, where he attended the Marie Therese Gymnasium in Erlangen. His focus areas in grades 5 through 11 were languages, focusing on English, Latin and French. In the grades 12 and 13, he focused on Math and Physics.

Before joining UH, Kurt served in the German Air Force and did internships in manufacturing technology at Deutsche Babcock and in product design at Siemens. He played soccer at the Real Madrid and the Erlangen soccer clubs. After soccer, he developed an interest and talent in swimming, representing Germany in the Youth European championships winning two silver medals. He was later selected to represent Germany in the European championships, in the world military games in St. Petersburg, and the World University games in Beijing.

Kurt was one of the driving forces behind the successful completion of the department's ASME Mini Baja vehicle this year. He is on the UH swim team, setting records in the 200 and 400 individual medleys as well as several relays. He won his events at the 2002 and 2003 conference championships and was awarded the outstanding performance award for the 2002 season. He also received the top academic award for the UH swim team last season.

He enjoys windsurfing, surfing, and remote-controlled sail planes and has achieved a 3.81 gpa. He is planning to go to graduate school in engineering after completing his degree at UH in May.





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FEBRUARY 2004 MEETING

Speaker: Rodney Haraga, Director, State of Hawaii Department of Transportation
Topic: Nimitz Highway Contraflow Lane Demonstration Project

Date: Tuesday, February 17, 2004
Time: 11:45 AM
Place: Belt Collins Conference Room
2153 North King Street, Suite 200
Cost: \$8.00 for members/guests and \$5.00 for students

Please call Pierson Koike at 527-6989 or send email message to pkoike@co.honolulu.hi.us by noon, Tuesday, February 10, 2004 to make your reservations. Payment will be collected at the meeting.

NOVEMBER MEETING HIGHLIGHTS

November 18, 2003 at the University of Hawaii at Manoa

The featured speaker was Lin Zhang, PhD candidate at the University of Hawaii and recent ITE Student Paper Award winner. Mr. Zhang began his presentation by defining travel time and explaining how it could be useful for congestion management systems and advanced traveler information system. Travel time data can be gathered utilizing a number of different methods including test vehicle, probe vehicle, license plate matching, cell phone tracking, automatic vehicle identification, GPS, vehicle signature matching, and platoon matching. Data collected by any of these methods could then be analyzed utilizing a number of methods which include the use of the revised BPR formula, historic profile, regression models, time series analysis, and

neural networks to produce travel time estimation models. The performance of these models could then be measured based upon either their root mean squared error, mean absolute error, or mean absolute percentage error. Mr. Zhang then presented his case study involving an approximately 8 mile stretch of the west-bound direction of the H-1 Freeway between 6th Avenue and the Pali Highway off-ramp. For this study, he collected travel times utilizing test vehicles, traffic volumes, and vehicular speeds. The collected data was analyzed each of the various modeling methods and the resulting models were then compared based

(continued on page 9)

**2004 ENGINEERS WEEK HIGHLIGHTS
FEBRUARY 22-28, 2004**

Honolulu Kickoff Luncheon

Sponsored by Honolulu Post, Society of American Military Engineers
Tuesday, 24 FEB, 1130 hours,
Hale Koa Hotel Banyan Tree Showroom.
Speaker: Dr. Larry Price, KSSK radio announcer
See reservation form on page 2

Honolulu Banquet

Sponsored by Hawaii Council of Engineering Societies
Saturday, February 28, 6:00 PM, Dole Cannery- Lanai Ballroom
Speaker: Gary Diaz, Former HPD Officer and author
See reservation form on page 3

Honolulu Eweek Exhibit

Sponsored by HCES and chaired by the American Society of Civil Engineers
Saturday, February 21 to Sunday, February 29, Kahala Mall

Maui Banquet

Sponsored by Maui Chapter, Hawaii Society of Professional Engineers
Saturday, February 28, Dunes at Maui Lani
Entertainment: Magician Brenton Keith & His Bag O'Tricks

Maui Career Shadowing

Sponsored by Maui Chapter, HSPE
Friday, February 27



TV Appearance


Monday, February 23, 6:50 AM on the KHON morning news program
Professor Audra Bullock will discuss her research work at the UH COE.

The Society of American Military Engineers, Honolulu Post
Invites you to join us for the

2004 ENGINEERS WEEK KICK-OFF LUNCHEON

Hale Koa Hotel, Banyan Tree Showroom
Tuesday, 24 February 2004, 11:30 AM
Luncheon Cost: \$23.00



Guest Speaker: Dr. Larry Price
Co-host of the Perry & Price morning radio show on KSSK
Professor at Chaminade University
Weekly columnist for Midweek Magazine

RSVP BY 17 FEBRUARY. SEND THIS FORM AND PAYMENT TO:
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MAUI CHAPTER ENGINEERS WEEK ACTIVITIES

February 22nd - 28th, 2004

Engineer/Young Engineer of the Year:

The nomination ballots were emailed out at the end of December by Charlene Shibuya. Any questions, call her at 875-3535.

Project of the Year:

Lesli Otani (270-8083) accepted nominations for January 16th deadline.

HSPE Scholarship:

Scholarship applications were mailed out to the various high schools on Monday, December 8th. Deadline is Friday, February 6th. Call Brooks Aoki at 242-4403.

Maui News Supplement:

The supplement will be published on Friday, February 20th. Deadline for articles will be Monday, February 9th. Call Annette Matsuda at 244-9011.

MathCounts:

MathCounts will be held on Saturday, February 14th at Maui Waena School cafeteria. We are looking for a new chairperson because this will be Wendy Taomoto's last year chairing this program. Call Wendy Taomoto at 270-7835.

Introduce a Girl to Engineering Day:

Introduce a Girl to Engineering Day is Thursday, February 26th. It is similar to Career Shadowing but aimed at intermediate school girls. Call Jeni Gaskin from the Maui Economic Development Board at 875-2332 or Brooks Aoki at 242-4403.

Career Shadowing:

Career Shadowing will be on Friday, February 27th. Call Carlos Rivera at 242-4403.

Engineers Week Banquet:

The Engineers Week Banquet will be Saturday, February 28th at the Dunes at Maui Lani. The guest performer will be Magician Brenton Keith & His Bag O' Tricks. No Host Cocktails - 5:30 p.m.; Buffet Dinner - 6:00 p.m.; Program - 7:00 p.m. Call Carlos Rivera at 242-4403 to RSVP.

Math Matters:

Math Matters will be held on Saturday, March 13th at Maui Waena School cafeteria. Call Eric Matsuda at 242-4403.

HSPE LEGACY PROJECT:

Our State HSPE is coordinating an HSPE Legacy Project which has a goal of raising \$20,000 to "buy" an entire house for the Habitat for Humanity program. The Legacy Project committee is looking for responsible volunteers

to pursue donations for an online silent auction. Eric Yamashige, our State Director, is providing coordination from Maui Chapter. Please call him at 242-8611 if you can help with soliciting donations.

Engineers: Turning Ideas into Reality

**2004 Engineers Week Banquet
 Saturday, February 28, 2004
 Dole Ballroom – Lanai Ballroom
 680 Iwilei Road, Honolulu, Hawaii**



Cocktails: 6:00 p.m.
 Dinner: 6:30 p.m.
 Program: Guest Speaker Gary Diaz - Retired HPD Detective and author of "Honolulu Cop: Reflections on a career with HPD"
 Presentation of Awards - HCES Lifetime Achievement, Engineer of the Year, Young Engineer of the Year and Student Engineer of the Year
 Installment of new HCES officers

Please reserve _____ table(s) of 8 persons or _____ individual seats for the 2004 Engineers Week Banquet at \$42.00 per person or \$48.00 per person if postmarked after Friday, February 14, 2004 deadline. If making reservations after Friday, February 14, please call to ensure that seats are still available.

Please print names.

- | | |
|----------|----------|
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| 3. _____ | 7. _____ |
| 4. _____ | 8. _____ |

Company: _____

Address: _____

Society Affiliation(s): _____

Total Enclosed: \$ _____

Make checks payable to "HCES" and mail or deliver with this reservation form to:



**2004 Engineers Week Banquet
 c/o Tony Lau, HCES Treasurer
 Hawaii Pacific Engineers, Inc.
 1132 Bishop Street, Suite 1003
 Honolulu, HI 96813-2830**

If you have any questions, please contact Tony at 522-7426 or Jim Grogan at 254-2947.

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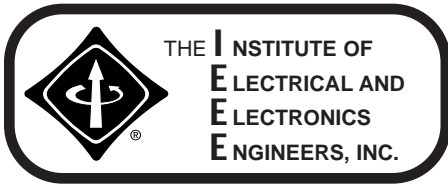
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IEEE sponsors first annual Hawaii Underwater Robot Challenge

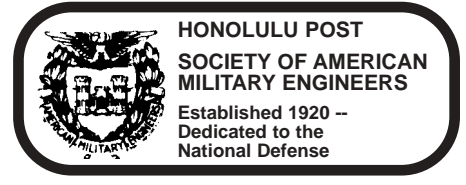
A ship carrying a cargo of toxic chemicals has sunk on a coral reef in off the coast of Lana'i. The chemicals will be released unless your underwater robot can penetrate the shipwreck, deactivate the alarms, and reset the lock on the chemical vault.

This was the mission facing twelve high school teams from Mililani, Moanalua, Punahou, Sacred Hearts, and Waipahu High Schools at the Hawaii Underwater Robotics Challenge that was held on Dec 20th at the Waipahu District Park Pool. Each team had two months to design and build a robot and practice the mission, entering and maneuvering inside a "shipwreck", using their robot's video camera to see the way, and push the buttons to deactivate the alarms and seal the vault. The teams started with a kit of parts containing

three bilge pump motors and propellers, wire, switches for controlling the motors, and a video camera. Some of the teams with previous robotics experience asked about using proportional motor controllers, and so the competition was divided into two divisions: "Shark Division" for robots with on-off switches for control, and "Dolphin Division" for the those with more sophisticated control systems.

The student teams also had to prepare an engineering report on their robot design, pass a safety inspection at the pool, and give a poster presentation to the competition judges. By the end of the competition, Punahou School finished first in the Shark Division, with a total score of 205.5 points, closely followed by Moanalua's "Aquarius" team with 199.5 points. In the Dolphin Division, Waipahu's "Da Nubees" team took top honors with a score of 209.

With funding from the IEEE Oceanic Engineering Society, and support from the School of Ocean and Earth Science and Technology at the University of Hawaii and the Hawaii Chapter of the Marine Technical Society, a kit of parts was provided free of charge to all public schools entering. Private schools, and public schools entering more than one team, could purchase kits for \$75. The competition will be held again next fall, and we're hoping to have even more high schools and students (and judges/mentors!) involved. For more information, contact Mark Rognstad (956-8712, or mark_rogstad@ieee.org).



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January's Meeting

Mr. Sokoloski talked to us about the direction of Pacific Area Regional Office (PARO). Bottom line: PARO was created to take the burden of garrison issues out of the combatant commander's laps. He also briefly discussed the Army's Housing Privatization.

February's Meeting

February's Meeting will be during Engineer Week, 24 Feb 04 at 1130 at the Hale Koa. See luncheon reservation form on page 2.

EXHIBITORS WANTED

If you are interested in have a display at the 2004 Engineers Week Exhibit at Kahala Mall from February 21 to 29, please email Horst Brandes at brandes@wiliki.eng.hawaii.edu.



Mililani team testing their robot before the competition.



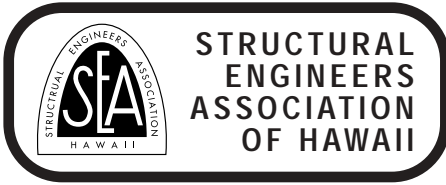
Sacred Hearts students testing their robot prior to the competition.



Waipahu team competing at poolside.



Punahou team at the Safety Inspection.



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HIGHLIGHTS OF BOD MEETING

08 January 2004

Committee Reports:

Jonathan Murai provided a draft of the 2004 Proposed Budget for review.

Les Nagata provided an update on the details of the SEAHOH installation banquet on 31 January 2004.

Clayton Wong (Legislative Committee) briefly spoke at the SEAHOH BOD meeting concerning legislative issues.

Old Business

Engineers' week is from 22 to 28 February, 2004. Sato and Associates will provide an engineering display at the exhibit at Kahala Mall. Any interested firms or individuals please contact Les Nagata for more details.

New Business

All 2004 Committee Chairman positions have been filled except for the Membership and Computer Committees. The necessity of a Computer Committee at this time was questioned. But as a standing committee, a revision to the By-Laws would be required to disband the committee. Discussion was tabled to a future meeting.

ACECH organized a Legislation Breakfast meeting on 07 January 2004. Randy Chu represented SEAHOH at the breakfast meeting.

The SEI is soliciting structural engineers to do 3 trial design problems to determine how structural engineers interpret code provisions. The board encourages all practicing engineers to participate. Please download these problems and instructions at: <http://www.seinstitute.org>.

New Member Applications

Received applications from the following people:

1. Xianping Li, Wilson Okamoto & Associates., applied as an Allied member.
2. Rebecca Yee, Baldrige & Associates Structural Engineering Inc., applied as an Allied member.
3. Tim Waite, Simpson Strong-Tie Company, applied as an Associate member.

Please notify any SEAHOH Officer prior to the February board meeting if you wish to comment on these prospective members.

2003 Calendar of Events

Next BOD meeting: 05 February 2004, 4:30 p.m., at Shigemura, Lau, Sakanashi, Higuchi & Associates office.

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



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General Membership Update

On January 23 at Sansei Seafood and Sushi Restaurant, the chapter installed the new officers and directors. Don Allen, LGSEA Executive Director, flew in to install the new administration and dismiss those who fulfilled their commitments. Program highlights were the recognition of our valued sponsors in the

light gauge steel framing industry. An extended awards ceremony recognized individuals who gave special effort to the chapter this past year. The officers and directors listed above reflect the recently installed administration. The board will meet to finalize the list of committee chairs for the upcoming year.

The first quarter of 2004 will have a heavy emphasis to the 2004 Pacific Rim Conference held by the Hawaii Pacific Steel Framing Alliance April 22-25, 2004 at the Waikiki Beach Marriott. We are working very closely with HSA to make this tremendous undertaking an overwhelming success. This year's conference is tied in with the Building Industry Association of Hawaii's Green Building Conference. We expect these additional programs and seminars to make the 2004 Pac Rim the most successful in event history.



2540 Dole Street, Holmes Hall
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	<i>brandes@wiliki.eng.hawaii.edu</i>		

FEBRUARY DINNER MEETING

None, in lieu of Engineer's Week Banquet. Please see Wiliki for more information.

EXECUTIVE COMMITTEE MEETING

January 13, 2004

2004 CALENDAR OF EVENTS (subject to change)

March 18, 2004 - Subject sponsored by Hydraulics/Hydrology technical committee

April 15, 2004 - Order of the Engineer Ceremony, Recognition of Life Members

ENGINEER'S RING CEREMONY PLANNED FOR APRIL DINNER MEETING

The Engineer's Ring Ceremony is the public induction of candidates into the Order of the Engineer. The Order is the roster of engineers in the United States who have participated in an Engineer's Ring Ceremony and who have publicly accepted the "Obligation of an Engineer." During the Ceremony, candidates formally accept the Obligation of an Engineer and receive a stainless steel ring to be worn as a symbol of recognition of membership in the Order of the Engineer.

The Obligation of an Engineer is the formal statement of an engineer's responsibilities to the public and to the profession. The Obligation includes a pledge to practice integrity, fair dealing, tolerance, and respect, and to uphold devotion to the standards and dignity of the profession, conscious always that an engineer's skill carries with it the obligation to serve humanity by making the best use of Earth's precious wealth.

Any engineer who has graduated from an ABET-accredited engineering program or holds a license as a Professional Engineer is eligible for induction into the Order of the Engineer.

Current plans are for National President Patricia Galloway to conduct the Engineer's Ring Ceremony at the Hawaii Section dinner meeting on April 15, 2004 for all candidates who register to participate. There will be a \$10.00 charge for participation in the Ceremony to cover the cost of the ring and certificate. Additional information on registration for the Ceremony will be forthcoming. Please direct inquiries regarding the upcoming April Ceremony to Walter Billingsley, ASCE Hawaii Section Vice President. Additional information on the Order of the Engineer and the Engineer's Ring Ceremony is available at <http://www.asce.org/professional/ethics>.

ASCE HAWAII SECTION AWARDS

The Hoover Medal was founded in 1929 and was instituted to commemorate the civic and

humanitarian achievements of Herbert Hoover. Applications for the Hoover Medal are due on January 2, 2004 to Jon Young (521-5361). The application form can be found at www.asce.org/pdf/hoovermednomform.pdf.

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.

MEMBERSHIP DRIVE

ASCE counts on our members to help us grow every year by actively participating in the Member-Get-A-Member Drive. The drive is now year-round and offers great new prizes, such as cash rewards, gift certificates, digital cameras, personal digital assistants, LCD TVs and more. For most prizes, all you have to do to be eligible to win is refer a colleague. This is a great time to help out your colleagues while also helping ASCE find new members. Take a minute to think about the people in your professional life who could benefit from membership. Visit www.ASCEDrive.org to refer them and you could be a winner in the next drawing! Please contact our membership chair, Lori Nishida, at 533-3646 or lnishida@atahawaii.com for further information.

CONVERTING TO ELECTRONIC VERSION OF WILIKI

If you would like to help the ASCE Hawaii Section reduce operating costs by receiving your monthly issue of the Wiliki via e-mail, please contact Tony Lau at 522-7426 or e-mail him at tlau@hawaiiapacificengineers.com.

HAWAII SECTION SCHOLARSHIP ASCE ENDOWED SCHOLARSHIP FUND

The Hawaii Section annually provides a university scholarship to a well deserving UH Student Chapter member. Show your support for our Civil Engineering students by making a tax-deductible donation to the ASCE Endowed Scholarship Fund. This month we would like to recognize the following individuals for their generous contributions: Glen Arakaki, Delwin Ching, Tit Kwong Chun, Michael Kimura, James Kumagai, Wallace Miyahira, Ronald Morikawa, George Nishimura, C. Dudley Pratt Jr., Takeshi Seita, Stanley Shimabukuro, Ben Taguchi, Daniel I. Takamatsu, Howard Takara, David Yamamoto and Ernest Yuasa.

We continue to accept donations with the goal of establishing a second annual scholarship. Please make checks payable to 'ASCE Hawaii Section' and mail to ASCE Scholarship Committee, P.O. Box 917, Honolulu, HI 96808. If you have any questions, please contact Horst Brandes at 956-8969, or at brandes@wiliki.eng.hawaii.edu.

MISCELLANEOUS AWARDS

Congratulations to Owen Miyamoto & Robert Chuck for becoming an ASCE Fellow.

The ASCE Hawaii Section was selected for

the 2003 National Outstanding Section and Branch Web Site Awards for Large Sections. Thank you to Joanna Seto and Lori Ikeda.

The ASCE Hawaii Section was selected for the Outstanding Large Section Award for Zone IV.

APPROVED FY 2004 BUDGET

Income Descriptions	FY03 Actual Income	FY 04 Budget Amount
Section Dues	\$ 10,020.00	\$ 10,100.00
Society Allotment	\$ 2,938.39	\$ 3,000.00
Interest	\$ 48.77	\$ 100.00
Contributions	\$ 978.00	\$ 1,000.00
Grants	(\$ 532.18)	\$ 0.00
Advertising	\$ 1,520.00	\$ 1,500.00
ASCE Conference	\$ 3,718.36	\$ 2,000.00
Total Income	\$ 18,691.34	\$ 17,700.00

Expense Categories	FY03 Actual	FY04 Budget
ASCE Conference HI	\$ 1,500.00	\$ 500.00
Miscellaneous	\$ 206.67	\$ 200.00
Contributions	\$ 0.00	\$ 300.00
Stationary/Supplies	\$ 11.34	\$ 50.00
Postage	\$ 386.00	\$ 500.00
Newsletter	\$ 3,494.90	\$ 3,600.00
General Printing	\$ 17.05	\$ 50.00
Meetings	(\$ 559.08)	\$ 0.00
YMF Activities	\$ 700.00	\$ 1,800.00
Student Chapter	\$ 1,500.00	\$ 1,500.00
Official Travel	\$ 5,018.40	\$ 5,600.00
Committee Expenses	\$ 514.69	\$ 600.00
ASCE Council	\$ 0.00	\$ 0.00
Awards & Prizes	\$ 2,160.00	\$ 3,000.00
Total Expenses	\$ 13,353.16	\$ 17,700.00
FY03 Net Income	\$ 5,338.18	

KNOW YOUR ASCE HISTORY

by C.S. Papacostas

The December, 2003 issue of the Wiliki o Hawaii announced the 2003 ASCE Hawaii Section Outstanding Civil Engineering Award winner. It was the Lower Hamakua Ditch By-Pass Tunnel project on the Big Island of Hawaii by the Design/Build team of Jas. W. Glover Ltd. and the URS Corporation.

As it is common in Hawaiian place names, districts by the same name, in this case "Hamakua," are found on several islands. In the same vein, we must not confuse the Hamakua Ditch Company organized by Alexander and Baldwin in 1876 to complete the Hamakua Ditch on Maui in 1878 with the Hamakua Ditch Company formed in 1904 to construct and operate irrigation ditches in the vicinity of the Waipi'o Valley of the Big Island. The former company eventually became the East Maui Irrigation Company, whereas the latter became the Hawaii Irrigation Company. It is interesting to note that the pre-eminent engineer Michael Maurice O'Shaughnessy worked for both of these as well as other companies during the first decade of the 20th century!

A 1913 "Drainage Map" of the Kohala-Hamakua districts of the Big Island is reproduced in the 1996 book by Carol Wilcox entitled "Sugar Water: Hawaii's Plantation Ditches." The map shows several "ditches" in the area named Upper and Lower Kohala Ditches, Woods Ditch, Pacific S. M. [i.e., "Sugar Mill"] Co. Ditch, Upper Hamakua Ditch, and finally the "New" Hamakua Ditch which later maps designate as the Lower Hamakua Ditch.

The initial nearly 25-mile length of this ditch was built in extremely challenging terrain, between May 1909 and June 1910.

(continued on page 7)

ASCE American Society of Civil Engineers

Hawaii Section — Younger Member Forum
Web site: <http://www.ascehawaii.org/yfm.html>

2003-2004 YMF OFFICERS

President	Jamie Hikiji jhikiji@ascehawaii.org	Phone 529-7229
Vice-Pres	Paulette Chang Hawaiiymf@yahoo.com	781-1187
Secretary	Scott Jennings sjennings@rci-group.com	845-8440
Treasurer	Geoff Ries gries@wilsonokamoto.com	946-2277
Stud. Chap.	Ronald Malalis	956-5808
President	malalis@hawaii.edu	

Next YMF General Meeting

The next two YMF general meetings are scheduled for Tuesday, February 3, 6:00 p.m. at Jose's Café and Cantina in Restaurant Row, 528-3859, and March 9, 6:00 p.m. at Murphy's Bar & Grill, 531-0422. 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.

SPRING 2003 ASCE YMF PE EXAM REFRESHER COURSE

Dates: Saturdays, January 17, 2004 to March 20 2004
9:00 a.m. to 12:00 p.m.
(An afternoon class from 1:00 p.m. to 4:00 p.m. may be added if there is enough interest)

Location: University of Hawaii College of Engineering

Cost: \$310 Registration Fee for ASCE Members
\$385 Registration Fee for Non-ASCE Members

Class size is limited and registration is done on a first-come first-served basis. Please call first if registering late to verify room is available.

This year's ASCE YMF PE Refresher Course will cover the "breadth-and-depth format" of the civil engineering professional examination. This year's lecturers are:

Structural Engineering- Mr. Ron Iwamoto, Iwamoto & Associates, LLC

Highway Geometry- Mr. Randall Urasaki, Parsons Brinckerhoff

Traffic Engineering- Mr. Wayne Yoshioka, Parsons Brinckerhoff

Geotechnical Engineering- Dr. Phillip Ooi, University of Hawaii at Manoa

Environmental Engineering- Mr. Raj Rath, C&C of Honolulu, Dept of Design and Construction

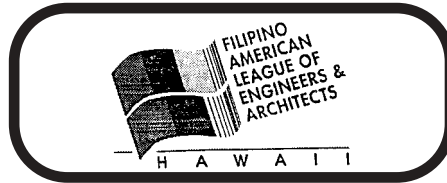
Hydraulics/Hydrology- Mr. Raj Rath

In addition to copies of the lecture notes for each subject and study supplies, class attendees will receive a copy of Michael R. Lindeburg's Civil Engineering Reference Manual for the PE Exam, 9th edition. Attendees will also have the option of ordering additional reference material at discounted prices.

To sign up for the Spring 2004 ASCE Hawaii Section YMF PE Refresher Course or if you have any questions, please contact Lorna Heller at 748-5944 or lheller@hbws.org.

ASCE Job Classified

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



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

2003-2004 OFFICERS AND DIRECTORS

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

EIT review started on Saturday, Jan. 24, 2004.

Huli-Huli Chicken Fundraising was launched last month, January 2004. Please call Marites Shoji @ 678-3916 or 294-4204 for details.

FALEA Spring Picnic will be held on Saturday, March 20, 2004 at Blaisdell Park, Aiea.

FALEA January Golf Tournament was held last Saturday, Jan. 10, 2004 at Mililani Golf Course. There were 22 participants and the overall winner for January 2004 tournament is Taz Galang.

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



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

2003-2004 OFFICERS

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

New Faculty and Staff: The College of Engineering held a reception for new faculty and staff on January 16. A total of 35 faculty and staff members have joined the College over the past six years.

Engineering Expo 2004: Each year high school students are invited to participate in games and design competitions hosted by the College of Engineering. This year's Engineering Expo took place on January 30 at Holmes Hall.

Upcoming College of Engineering Events:

TEAMS Event (February 21, 2004)

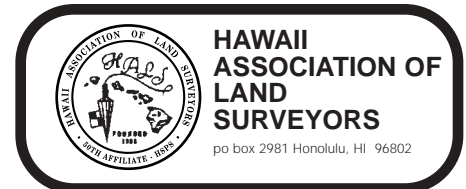
College of Engineering Open House (March 6, 2004)

2004 EAAUH Golf Tournament: Volunteers are needed for the 2004 golf tournament. If you would like to help, please contact Matt Fujioka (mkf@akinaka.com) or Stacie Kaneshiro (Stacie.Kaneshiro@hickam.af.mil) for more information.

Don't forget to check the EAAUH website at www.eaauh.org for pictures of the 2003 EAAUH golf tournament, information on events, job listings and EAAUH news.

ASCE HISTORY, from page 6

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>.



<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

2004 ANNUAL HAWAII SURVEYING CONFERENCE

Presented by
THE HAWAII ASSOCIATION
OF LAND SURVEYORS
Thursday and Friday
February 12 and 13, 2004
Radisson Waikiki Prince Kuhio Hotel
2500 Kuhio Avenue, Honolulu

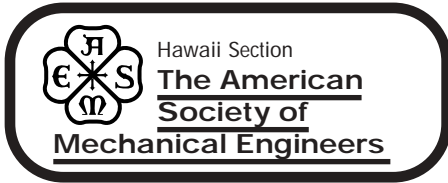
VENDORS DAY

Wednesday, February 11; Ewa of McCoy Pavilion, Ala Moana Regional Park; 12:00 noon - 5:30 P.M.

ANNUAL BANQUET

Thursday, February 12; Prince Edward Room, Radisson Waikiki Prince Kuhio Hotel; 5:30 P.M.

FEATURED PRESENTATIONS: Height Modernization, Network Densification/HARN, Title Reports & ALTA Surveys, Condominium Property Regime, Marketing, Project Management, GIS, Early Hawaiian Land Tenure, The Great Mahele, Land Commission Surveys, Original Hawaiian Land Titles, Other Hawaiian Land Matters, Conflicts in Boundary Control, Public Lands, Wage Laws and much more.



Website: www.asme.org/sections/hawaii

2003-2004 OFFICERS

Chairperson	Raymond Liu	521-3773
Vice-chair	LCDR John Markowicz	484-9164
Treasurer	Rodney Krienke	373-2916
Secretary	Sam Gillie	543-4739
Past-chair	James Grogan	254-2947
Dir 1 yr	Ed Chang	543-4227
Dir 2 yr	Ron Flegal	455-0254

HAWAII SECTION COMBINED COMMITTEES & POWER TECHNICAL CHAPTER MEETING

Date: Tuesday, March 9, 2004

Time: 5:30 p.m. to 6:30 p.m.

Place: Hawaiian Electric Company, Inc. Ward Avenue Cafeteria

All members are invited and asked to attend. Members are always welcome. The Officers and Directors of ASME-HI Look forward to seeing new and familiar faces. Naturally, we are constantly seeking help from the membership to fill the committee positions and with program ideas. In addition, we are having a Power Technical Chapter meeting to discuss programs for next year. Lots of free pizza and pop are always provided. Please contact Ray Liu or Sam Gillie for directions and more information. For Power Chapter questions, please contact Ed Chang.

MEMBERS & GUESTS AT THE JANUARY 13 MEETING

Joining the Executive Committee for the first time at the January 13 meeting were George Demopoulos, Balaji Krishnamurthy, and Dean Watanabe. George Demopoulos has been a member of the Hawaii Section for about 7 years and recently separated from the U.S. Navy. Dr. Krishnamurthy is doing research on fuel cells and is affiliated with the Hawaii Fuel Cell Test Facility. Dean Watanabe is employed by the Federal Government at the Kunia facility and is an old acquaintance of Chairman Ray Liu.

FEBRUARY 2004 ENGINEERS WEEK BANQUET

National Engineers Week, which will be observed from February 22-28, will recognize the globalization of the profession or engineering by highlighting two programs: New Faces of Engineering and Connecting the World to Engineering.

It is still not too late to join your fellow mechanical engineers and their spouses at the ASME-HI table on February 28. If you would like to sit at the mechanical engineer table, please contact Jim Grogan at 254-2947.

ENGINEERING & ARCHITECTURE HISTORY MUSEUM

Back at our January 2002 meeting, past-Chairman Jim Grogan revealed the idea of a Hawaii Engineering and Architectural museum using the old Kakaako Pumping Station. This project would be modeled similar to the Baltimore Inner Harbor area Public Works Museum that displays many replications of past engineering accomplishments. The idea was to get all Hawaii engineering societies, surveyors, and architects together for a similar combined project showing their accomplishments. Jim Grogan contacted several government agencies and has been waiting for further responses.

In a recent Honolulu Star Bulletin "Brainstorm!" section by Nancy Christenson, her brainstorming idea was "What should the city do with the elegant old sewage pump station?" January 15 was the deadline set for the readers to submit ideas. Naturally, Jim Grogan was very surprised to see this and responded to Nancy Christenson. Stay tuned for future developments.

ASME'S MEMBER INITIATIVE SYSTEM ON THE WEB

ASME members can propose improvements to ASME policy or procedure or make any suggestions that would improve the operation or activities of the Society by visiting ASME's Member Initiative System web page at www.asme.org/cma/mis.cfm. To date, there have been 13 proposals submitted, on topics such as "ASME and Iraq Reconstruction" and "Committee on the International System of Units." To view the initiatives, as well as ASME's responses, visit this web page.

NOMINATIONS FOR ASME-HI SECTION 2004 PROJECT/DESIGN OUTSTANDING ACHIEVEMENT AWARD

The nomination deadline is April 30, 2004. Although this date is a ways off, you can submit nominations any time before that date. If you know of any unusual or outstanding mechanical engineering-type project or design that have been completed within the past five years, please contact Ed Chang. The nomination process is very simple, easy, and fast.

REQUEST FOR DONATIONS FOR THE ASME HUMAN POWERED VEHICLE (HPV) PROJECT

The UHM ASME Student Section HPV Team continues to seek support and donations from the engineering community for expenses to design, build, and compete in the April 23-25, 2004, ASME West Coast HPV Competition in Corvallis, Oregon.

The Student HPV Team plans to compete in the April 2004 ASME West Coast Competition. Because of the high cost to participate in this annual ASME student competition, the students seek your help in funding. They expect expenses to reach as high as \$15,000 for materials and travel. Donations are tax deductible. Checks can be made out to "UH Foundation/Engineering/HPV" and mailed c/o Dr. Mehrdad Ghagemi Nejjad, Department of Mechanical Engineering, University of Hawaii at Manoa, 2540 Dole Street, Holmes Hall #302, Honolulu, HI 96822. Any support will be greatly appreciated.

MATHCOUNTS 2004 SEEKING PROCTOR AND SCORER VOLUNTEERS

Proctor and scorer volunteers are still needed for the MathCounts Oahu Chapter Competition on Saturday, February 21, 2004. The event will be held in the Kamehameha Schools Kalama Dining Hall. The Hawaii Society of Professional Engineers sponsors the Hawaii MathCounts Competitions with many other engineering organizations helping. Support from the engineering community is appreciated. The proctors are needed from 7:30 a.m. to about 11:00 a.m. while scorers are needed from 8:30 a.m. to about 11:00 a.m. Please call Ed Chang at 543-4227 or email him at edmund.chang@heco.com for more information and to volunteer.

FUTURE ACTIVITIES

Several tours and meeting speakers are being planned. Please watch for the dates and the topics in future Wiliki issues and at the ASME-HI website.



OFFICERS

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

HAWAII SFPE SEMINAR ANNOUNCEMENT PLAN REVIEW AND INSPECTION OF FIRE SPRINKLER SYSTEM

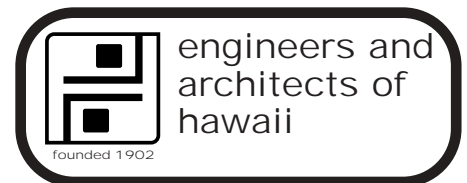
The Hawaii Chapter of the Society of Fire Protection Engineers is sponsoring this excellent two day seminar through a special arrangement with the National Fire Sprinkler Association. This seminar will be very useful for those responsible for the review of fire sprinkler plans and inspection of fire sprinkler systems.

Date: April 27 and 28, 2004

Location: Fort Shafter Golf Clubhouse (Hale Ikena)

Cost: \$250 (\$200 for SFPE members, Chapter Friends, fire service personnel)

For information and to register contact: Sam Dannaway, Program Chairman, Hawaii Chapter SFPE, Tel (808) 526-9019 / Fax (808) 537-5385, E-mail: seminars@sfpehawaii.org



po box 4353, honolulu, hawaii 96813

An association for Hawaii's Engineers and Architects
New WEB Address <http://community.hei.com/eah>

OFFICERS FOR 2003 - 2004

President:	Martin McMorrow
1st V.P.:	Bob Morrissey
2nd V.P.:	Gary Yamamoto
Treasurer:	Ralph Dobson
Secretary:	Sam Gillie

February 2004 Program

Program Chair Maria Tome

Feb 6 Speaker: Rick McQuain, HECO Manager of Energy Projects. "Distributed Generation and Combined Heat and Power Systems"

Feb 13 NO MEETING - in honor of President's Day, Mon. Feb. 16

Feb 20 Speaker: Mark Fox, Director of External Affairs, Nature Conservancy of Hawaii. "Protecting Hawaii's Natural Lands." Together with members and conservation partners, the Nature Conservancy has protected more than 200,000 acres of critical natural lands in Hawaii.

Feb 27 NO MEETING - in honor of Engineer's Week Banquet, Sat. Feb. 28

KAWAHIGASHI, from page 1

While at CalTrans, he was active in the American Society of Civil Engineers (ASCE) and was a member of the Hydraulics Committee in the 1960's. He was instrumental in CalTrans' acceptance of the use of the "Pressure Momentum Theory" for open channel flow of on-site drainage designs for California's freeways and highways.

In 1969, he was selected to become the project engineer for California's experimental Traffic Surveillance and Control project on 42 miles of freeway in the Los Angeles area. This project pioneered today's computerized traffic surveillance and control projects ("Intelligent Transportation System") for California. As project engineer, he developed and tested California's original software for detection of incidents on the freeway system. In 1971, he was promoted to the Senior Highway Engineer in District 7's Freeway Operations Department in charge of operations on the freeways for the then three-county area of District 7, consisting of Los Angeles, Ventura and Orange Counties. His responsibilities included the identification and quantification of traffic congestion on the freeway network, operation of the on-ramp-control program to mitigate congestion on the freeways, and special event and freeway incident management. In identifying and quantifying congestion on the freeway system, he perfected the use of aerial photography to quantify freeway bottlenecks. Also as the operations engineer, he worked closely with law enforcement (California Highway Patrol, LA Police Department, and LA County Sheriff's Department) and various city traffic engineering departments in setting up freeway incident response plans. He supervised CalTrans' incident response team in setting up traffic control for major freeway closures. Major tests for the CalTrans response team were the Griffith Park landslide on Interstate 5 in 1970, and the Sylmar earthquake at the junction of Interstate Routes 5, 405 and State Route 6 in February 1971.

In 1972, Ted joined Austin, Tsutsumi & Associates, Inc. (Austin, Smith & Associates, Inc. at that time) as the Principal Traffic Engineer. In 1975, he became a principal in the firm and served as its corporate secretary. During the period 1972 to mid-1980, he was active in ASCE and American Public Works Association. In 1987, he was selected to lead Austin, Tsutsumi & Associates, Inc. as its President and CEO until his retirement in September 2001. During this period of time ATA grew from a firm of 40 employees to 60, and expanded operations into Southeast Asia and into Panama. ATA currently has a subsidiary office in Ho Chi Minh City, Vietnam.

Ted is a registered professional civil engineer in the states of California and Hawaii.

Ted also served in every officer position of

the local section of the American Council of Engineering Companies Hawaii (ACECH), and as national director of the American Council of Engineering Companies (ACEC). He is also a Fellow of ACEC, and served as a member of the Committee of Fellows. In addition, he has served on the Board of Trustees of St. Louis School from 1992 to 2002, and continues to serve St. Louis School as a member of the Facilities Committee.

HELLER, from page 1

Engineering's Spring 1993 Outstanding Senior Award.

Ms. Heller also continues to advance professionally within the government sector at the Honolulu Board of Water Supply. Her responsibilities at work have included a wide spectrum of tasks from engineering design to computer modeling to planning for Oahu's future water supply.

Ms. Heller currently serves in a supervisory position with the Board's Water Resources Unit, Long-Range Planning Section. Responsibilities include preparing hydraulic computations; reviewing plans, contracts, specification, water demand projections, field surveys, cost estimates, proposals, and miscellaneous reports related to Planning. She also assists with the preparation of the Board's long-range plans, such as the preparation of population projections and estimates for future water use and the scheduling and coordination of sources needed to meet the islands project demands.

A couple of her noted projects include:

- Kakaako District Chilled Water Project for the John A. Burns School of Medicine, which will develop a central chilled water air conditioning system using deep seawater wells instead of conventional mechanical cooling, saving potentially up to 85% in building cooling costs.
- Honolulu Board of Water Supply's first ever Deep Ocean Water Application Facility Project to evaluate the feasibility of the Deep Ocean Water Application facility as a viable means for production of potable water while generating power, chilled water for air conditioning, and a host of other by-products.

At the community level, Ms. Heller is active in supporting the Muscular Dystrophy Association of Hawaii, USS Missouri Restoration Foundation, and the United Cerebral Palsy Foundation.

Ms. Heller sets a fine example for all of us in the engineering profession. She continues to raise the bar for all us with her contributions to her chosen profession, her professional society, and to the community at large. We are indeed fortunate to have someone like Lorna Heller representing us in the engineering community.

LEE, from page 1

Engineers (HSPE). As Chair for Events and Tour Activities, he arranged numerous local flavored events and activities for the 650 delegates in attendance, which was the second most attended meeting in NSPE history. The events and tours were outstanding and as a result of his success, funds were raised for a Special Scholarship Fund. In addition, for the first time ever, a local chapter made a \$10,000 contribution to the NSPE Scholarship. More recently, the 2003 Mayor's Cup was the fruit of his leadership with an \$80,000 donation to Hawaii Island United Way (donations supporting 34 Big Island charities).

Mr. Lee's continuous pattern of volunteerism is further demonstrated by his participation in the Civil Engineering Exam Committee of the National Council of Examiners for Engineering and Surveying. As a committee member since 2000, he has become one of the reliable volunteer consultants giving 8-10 days per calendar year of his time to the committee by participating in the production of the annual exams for licensure.

As a manager and leader, Mr. Lee has again proven himself and was recognized as the County Supervisor of the Year in 1998 by the County of Hawaii, while serving as the DWS Water Quality Assurance and Control Section Head. The Association of the Alumni and Friends of the University of Hawaii at Hilo also recognized him as the 2003 Distinguished Alumni.

Mr. Lee has accomplished much in his profession career and has shown a warm and unselfish heart in serving the people of our community. The true worth of an individual is not what he has accomplished for himself but what he does for others. Dennis Lee is certainly helping to make our Big Island and indeed the State of Hawaii a better place to live.




ITE, from page 2

upon the various performance measures. Based upon these results, Mr. Zhang concluded that travel times can be predicted well for short freeway sections and the model with the best performance was a simple exponential decay model.

2006 District 6 Annual Meeting

The Hawaii Section will be hosting the 2006 District 6 Annual Meeting from June 25-28, 2006 at the Sheraton Waikiki Hotel. This meeting will include technical sessions, technical tours, vendor exhibits, and social events. The Local Arrangements Committee (LAC) is currently looking for volunteers to help organize this event. Please contact General Chair Cathy Leong at 946-2277 or cleong@wilsonokamoto.com if you are interested in participating.

Professional Directory

 WES THOMAS ASSOCIATES Land Surveyors 75-5749 Kalawa St., Kailua-Kona, Hawaii 96740-1817 Tel: 808 329-2353 Fax: 808-329-5334 <i>Surveying Hawaii Since 1975</i>	 WPT WALTER P. THOMPSON, INC. SURVEYING & MAPPING 720 Iwilei Road Suite 425 P.O. Box 3351 Honolulu, HI 96801 Phone: (808) 536-2705 Fax: (808) 599-4032	 R. M. TOWILL CORPORATION SINCE 1930 PLANNING • ENGINEERING • ENVIRONMENTAL SERVICES PHOTOGRAMMETRY • SURVEYING • CONSTRUCTION MANAGEMENT 420 WAIKAMILLO ROAD, HONOLULU HAWAII 96817-4941 808 842 1133	 URS Engineers Scientists Program and Construction Managers Environmental Planners 815 PEARL STREET, 9TH FLOOR HONOLULU, HAWAII 96814-1141 PH: (808) 845-1116 FX: (808) 955-1158 hen@urscorp.com www.urscorp.com
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