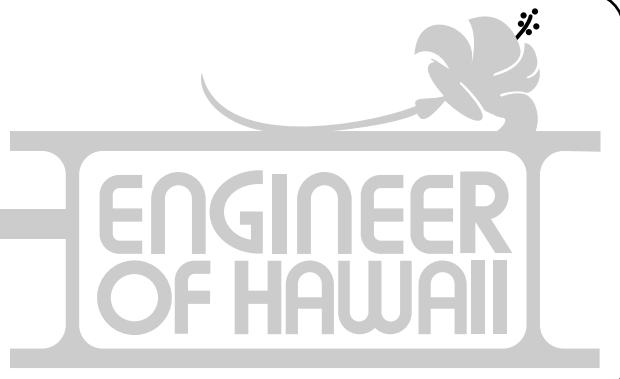


wiki o hawaii



VOL. 40 NO. 11

SERVING 2000 ENGINEERS & LAND SURVEYORS

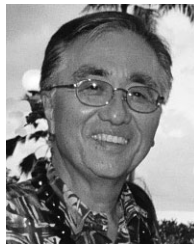
FEBRUARY, 2005

HCES LIFETIME ACHIEVEMENT AWARD

Stanley K. Kawaguchi

The Hawaii Council of Engineering Societies is pleased to recognize Stanley K. Kawaguchi as the recipient of the 2005 HCES Lifetime Achievement Award. This annual recognition is given to an individual who has contributed significantly to the development of engineering in the State of Hawaii and who has made a noteworthy impact on the local engineering community.

Stanley K. Kawaguchi was born on January 26, 1940 in Honolulu, Hawaii. He was educated in Hawaii's public school system and then attended the University of Hawaii where he was awarded a Bachelor of Science degree in Civil Engineering in 1963. He then received a Masters Degree in Civil Engineering from the Massachusetts Institute of Technology in 1964.



From 1965 to 1968 he served on active duty in the U.S. Army Corps of Engineers where he experienced a period of rapid promotion from the rank of Captain to Adjutant (S-1) of the Engineer Group. Following his departure from the military, he journeyed to San Francisco and joined the firm of parsons Brinckerhoff Quade & Douglas, Inc. in June 1968. For the next 8 years, he gained experience in the areas of civil, structural, and transportation engineering and in project planning, design, and management. He worked on many projects, the most notable being the Bay Area Rapid Transit Project and in particular the Trans-Bay Tube, which is the 3.2 mile underwater tube connecting San Francisco and Oakland.

(continued on page 15)

2005 YOUNG ENGINEER OF THE YEAR

John Katahira, P.E.

The Hawaii Society of Professional Engineers is proud to announce that Mr. John Katahira, P.E. is the recipient of the 2005 Young Engineer of the Year Award. Mr. Katahira was nominated by the American Society of Civil Engineers (ASCE) for his outstanding contributions to his profession and to the community. Mr. Katahira received his Bachelor and Master of Science in Civil Engineering and his Master of Business Administration from the University of Hawaii (UHM).



While a student at UHM, Mr. Katahira served as the ASCE Student Chapter President in 1993 and chaired the 1994 ASCE Pacific Southwest Conference. The conference took more than one year to plan and brought 16 universities and over 300 mainland engineering students to the UHM campus. His outstanding leadership and scholastic achievement earned him the UHM College of Engineering's Fall 1993 Outstanding Senior Award and the 1994-95 Everett E. Black Scholarship Award.

In 1998, Mr. Katahira joined The Limtiaco Consulting Group (TLCG) as a project engineer. Within a year, Mr. Katahira was invited to ownership of the company by its founder, Mr. Felix Limtiaco. He has since served the company as principal and under his guidance, TLCG recorded more than 110% growth in the past three years and over 200% growth in the past six years. In 2002, Mr. Katahira was selected as one of Hawaii's top forty young professionals by the Pacific Business News as part of its

(continued on page 15)

2005 ENGINEER OF THE YEAR

Robert Y. Akinaka

The Hawaii Society of Professional Engineers (HSPE) is proud to announce that Mr. Robert Y. Akinaka, P.E., has been selected for its 2005 Engineer of the Year award. Mr. Akinaka was chosen for this honor in recognition of his many years of dedication and service to his profession and to his community.

Mr. Akinaka currently serves as Chairman of Akinaka & Associates, Ltd., a consulting civil engineering firm in Honolulu which was founded in 1941 by his father, Arthur Y. Akinaka. As some of you may remember, Arthur Y. Akinaka was presented with the Engineer of the Year award in 1978. Bob grew up in Kalihi, observing and admiring his father's professionalism and commitment to developing successful projects for the benefit of the community. After his graduation from Punahou School in 1959, he continued his education at Stanford University where he earned a Bachelor of Science Degree in civil engineering in 1963. He then returned to Hawaii to work for his father's firm, where he made it his goal to quickly learn all the skills required for successful engineering solutions. He became president of Akinaka & Associates, Ltd. in 1984.

Over the past 40 years, Mr. Akinaka has been a leading force in numerous major engineering projects which benefit the people of Hawaii. He has also contributed to his profession by generously donating his time and skills to organizations such as the American Water Works



(continued on page 15)

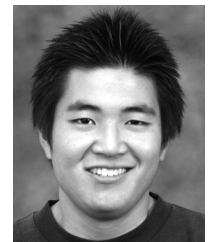
STUDENT ENGINEER OF THE YEAR

Blaine T. Murakami

Mr. Blaine T. Murakami's accomplishments as a student engineer are overwhelming! A 1999 graduate of Mililani High School, Mr. Murakami is currently enrolled in the Electrical Engineering Department of the University of Hawaii at Manoa and expected to graduate in May 2005. In his short undergraduate engineering tenure, he has accomplished more than many who have received advanced degrees.

To briefly elaborate, Mr. Murakami has maintained an overall GPA of 3.8/4.0 and has consistently been on the Dean's List. He is the recipient of the four-year UH Regents Scholarship. As a freshman, he was accepted into Dr. Wayne Shiroma's research group and conducted graduate-level research. As a sophomore, he co-wrote a research proposal for the UH Nanosat Program to the Air Force Office of Scientific Research, which was selected for a \$100,000 award. Also as a sophomore, he won third place in the UH Student Invention Competition for his work on laser-based object recognition for the visually impaired.

As a junior, Mr. Murakami's accomplishments escalated. He teamed up with two MBA officers and two electrical engineering PhD researchers to launch a new company, Pipeline Communications and Technologies, Inc. based on the patented technology which involves phase-conjugating retro-directive antenna arrays. They also won the \$35,000 first place prize in the Spring 2004 UH Business School's Business Plan



(continued on page 7)



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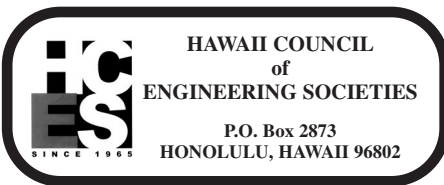
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Additions and/or corrections should indicate the proper society, institution or association.

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HOME PAGE: <http://hces.us>

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OOPS! WE GOOFED

In the January 2005 issue of Wiliki O Hawaii, the front page article describing the featured speaker at the Engineers Week Banquet listed the wrong date for the event. The Banquet will be held on Saturday, February 26, 2005, at the Ala Moana Hotel. Please see the Banquet registration form elsewhere in this issue.



The Society of American Military Engineers, Honolulu Post

Invites you to join us for the

2005 ENGINEER'S WEEK KICK-OFF LUNCHEON

Presentation: University of Hawaii Civil Engineering Research Park

Speakers: Dr. Wai-Fah Chen, Dean College of Engineering, University of Hawaii
H. Ronald Riggs, Professor of Civil Engineering, University of Hawaii
Ian Robertson, Professor of Civil Engineering, University of Hawaii

Hale Koa Hotel, Banyan Tree Showroom

Tuesday, February 22, 2005 at 11:30 AM

Luncheon Cost: \$24.00 (Student Cost: \$19.00)

(Public parking available at Ft. DeRussy)

RSVP BY 15 FEBRUARY 2005.

SEND THIS FORM AND PAYMENT TO:

Society of American Military Engineers, Honolulu Post
c/o Warren Hall
EA Engineering, Science, and Technology
1221 Kapiolani Blvd. Suite 1030
Honolulu, HI 96814

(Make checks payable to Society of American Military Engineers)

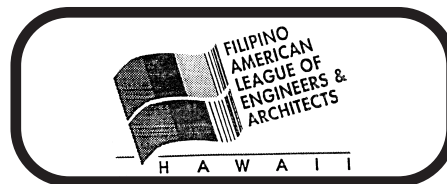
Name: _____

Organization: _____

Address: _____

Phone: _____ Number in Party: _____

Receipt required: Yes _____ No: _____ LUNCH: Warrior Buffet



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2004-2005 OFFICERS AND DIRECTORS

PAST HAPPENINGS

We just concluded a Christmas Caroling Fundraising last December 2004.

A three (3) day OSHA Safety Course, jointly

sponsored by FALEA and Filcom Center, was held at Filcom Center on January 4, 5 & 6, 2005.

EIT Review commenced on January 29, 2005 at Norman-Wright Mechanical, Waipahu.

FALEA Picnic was held on January 22, 2005 at Blaisdell Park.

For additional information, please visit our website at www.falea.org.

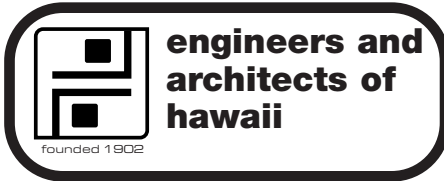
2005 HONOLULU ENGINEERING WEEK ACTIVITIES

February 21-27 — Engineers Week Exhibit at Kahala Mall ("Call for Exhibits" form on Page 14)

February 22 — Engineers Week Kick-Off Luncheon at Hale Koa Hotel. See article this page (RSVP form on this page)

February 26 — Order of the Ring Ceremony. Preceding the Engineers Week Banquet (information and registration forms on page 4)

February 26 — Engineers Week Banquet at Ala Moana Hotel. See article this page (Registration form on page 5)



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An association for Hawaii's Engineers and Architects
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EAH February Program:

February Program Chair Sam Gillie
Feb 4th, TBA see EAH Web site
Feb 11th TBA see EAH Web site
Feb 18th No Meeting Presidents Day Holiday
Feb 25th TBA see EAH Web site
Saturday Feb 26th Engineers Week Banquet –
Ala Moana Hotel

Meetings held every Friday at YWCA room 205 on Richards Street downtown. Parking at Alii Place off Alakea Street for \$1.00 per hour. Meetings start at NOON and end promptly at 1:00 pm.

Members-\$7.50 Guests-\$8.50

Program schedule may be adjusted. Call Secretary to confirm speaker. Anyone wanting a weekly email meeting notice please send your email address to Sam Gillie at sgillie@hei.com.

Meeting Notes for December 10th, 2004:

Ralph Dobson reported that he called Peter Burk this week and Peter is doing fine in Oregon and was happy to hear from EAH.

SPEAKER: Hans Krock, OCEES; SUBJECT: "OTEC Project at Diego Garcia"

Hans gave EAH a briefing on his company's proposal to install an Ocean Thermal Energy Conversion (OTEC) Plant for the Navy's base at Diego Garcia in the Indian Ocean. It would be an Open cycle plant so it would produce electricity, fresh water and chilled water for air conditioning.

Meeting Notes for December 17th, 2004:

SPEAKER: Todd Ericksen, OCEES; SUBJECT: "Pearl Harbor Seawater Air Conditioning System" Todd Ericksen reported on the work they have done to investigate feasibility and economics of various configurations of providing centralized air conditioning for the Pearl Harbor Naval Facilities. These included plants that utilized seawater as a chiller water source, conventional electric centrifugal chillers and absorption chillers. Total capacity could be as high as 6,000 tons. The concepts would require extend installation of above and below

ground chilled water piping.

Sound Recordings of these meeting will be posted to the EAH WEB Site.

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Thursday & Friday, February 3 & 4, 2005
Radisson Waikiki Prince Kuhio Hotel
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VENDORS DAY

Wednesday, February 2, 2005
Ewa of McCoy Pavilion
Ala Moana Regional Park
Honolulu, Hawaii
12:00 Noon-5:30 P.M.

ANNUAL BANQUET

Thursday, February 3, 2005
Radisson Waikiki Prince Kuhio Hotel
Prince Edward Room
6:00 P.M.

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That Is Down There Before You Put
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**AN ORDER OF
THE ENGINEER RING CEREMONY
WILL BE HELD
AT THE 2005 ENGINEERS WEEK BANQUET
FEBRUARY 26, 2005 AT 5:00 P.M.
AT THE ALA MOANA HOTEL**

The Hawaii Council of Engineering Societies invites you to participate in the Order of the Engineer Ring Ceremony to be held preceding the Engineers Week Banquet. This is an optional event and participants are welcome to attend the Banquet after.

The Order of the Engineer was initiated in the United States to foster a spirit of pride and responsibility in the engineering profession, to bridge the gap between training and experience, and to present to the public a visible symbol identifying the engineer. The first Ring Ceremony was held on June 4, 1970 at Cleveland State University. Others like it have since spread across the United States at which graduate and registered engineers are invited to accept the Obligation of the Engineer and to wear a stainless steel ring.

The Ring Ceremonies are conducted by Links (local sections) of the Order, of which the American Society of Civil Engineers (ASCE) is one. On April 15, 2004, 75 people participated in the first Ring Ceremony held in Hawaii. More information on the Order of the Engineer can be found at www.order-of-the-engineer.org.

Any engineer is eligible for induction into the Order of the Engineer if he or she has graduated from an ABET-accredited engineering program or holds a license as a Professional Engineer. Students enrolled in ABET-accredited engineering degree programs are eligible if they are within two academic terms of graduation. Guests are welcome to witness the induction ceremony.

Participants at the Engineers Weeks Banquet Ring Ceremony will take the Obligation of the Engineer and receive a stainless steel ring. The cost for the Ring Ceremony will be \$17.50. A registration form for the Ring Ceremony is attached. To assist in determining your ring size, a ring sizing chart is available from the HCES website at www.hces.us.

For additional information on the Ceremony, please contact: Westley Chun, HCES Vice Chair, at 488-0477 or Westley.Chun@ch2m.com.



Order of the Engineer Ring Ceremony

2005 Engineers Week Banquet
February 26, 2005 at 5:00 p.m.
Ala Moana Hotel

Sponsored by the
American Society of Civil Engineers (ASCE)
World Headquarters Link,
ASCE Hawaii Section, and
Hawaii Council of Engineering Societies

Name: _____
(to be printed on certificate for participants only)

Professional Credentials: P.E. P.L.S. E.I.T.
(to be printed on certificate for participants only)

Mailing Address: _____
(needed for participants only)

Ring Size: _____ (fifth finger of your writing hand)
(needed for participants only – form for measuring ring size is available on the HCES website at www.hces.us)

I attest that I am eligible for induction into the Order of the Engineer by merit of:

- 1. having graduated from an ABET-accredited engineering program, or
- 2. holding a license as a Professional Engineer, or
- 3. being enrolled in an ABET-accredited engineering program and within two academic terms of graduation.

signature date

Registration Fee: \$17.50 per initiate (includes ring and certificate)

Fee is payable via cash or check. Please make check payable to "HCES." Mail completed form with payment to Erik Kaneshiro, HCES Treasurer, c/o Austin, Tsutsumi & Associates, 501 Sumner St, Suite 521, Honolulu, HI 9617. Registration forms with payment must be received by February 15, 2005.



www.eng.hawaii.edu/~hspe

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 Kona-Kohala Chapter Dan Lanterman

NSPE MOVES TOWARD BROAD ORGANIZATION CHANGES

HSPE state officers, Riley Smith, P.E. President; Manny Lanuevo, P.E., President Elect; and Kenneth Rappolt, P.E., Vice President; attended the NSPE National winter Meeting in San Diego, January 13 -16. Also present from Hawaii were Peter Boucher, P.E., HSPE Past President; Eric Yamashige, P.E., Regional Vice President; Curtis Beck, P.E. and Clyde Nagata, P.E., representatives of Professional Engineers in Industry.

Among the numerous items of business discussed, was the presentation of a conceptual plan that would reorganize the governance of the National organization with the goal of making NSPE more streamlined and responsive to the changing needs of the profession and our members. Although the organizational proposals are still works in progress, the effort would

rewrite the society's Mission and Vision Statements, define the goals of the Society in response to present and future needs, streamline the Board of Directors and create a national house of delegates representing each state society. The goals are to create an organization that provides value to our membership, fosters national and state partnerships and encourages growth in membership.

The reorganization plan proposals are the product of the National Future Directions Task Force that is made up of representatives from a broad spectrum of our membership. All changes contained in the final recommendations will require changes to the constitution and will be submitted to the general membership for approval.

Additional information will be forthcoming through our national publications.

HOTEL DISCOUNT FOR HONOLULU BANQUET

Discounted hotel room rate will be available at the Ala Moana Hotel in conjunction with the Engineers Week Banquet. The discounted room rate is \$109 for single/double occupancy rooms for Saturday, February 26. The same discounted room rate will be available for three days prior and after the banquet date subject to availability. Please have your members call the Ala Moana Hotel directly at 955-4811 (1-800-445-8990 from the neighbor islands) and ask for group reservations to make their room reservation. When making the group reservation, mention that is for the Hawaii Council of Engineering Societies.



2005 Engineers Week Banquet
Saturday, February 26, 2005
Ala Moana Hotel – Hibiscus Ballroom I
410 Atkinson Drive, Honolulu, Hawaii

- 5:00 p.m. Order of the Engineer Ceremony (Optional – See Separate Announcement)
- 5:30 p.m. Cocktails
- 6:30 p.m. Dinner
- 7:15 p.m. Program:

Presentation of Engineers Week Exhibit Awards.
 Presentation of Engineer of the Year, Young Engineer of the Year, HCES Lifetime Achievement and Student Engineer of the Year Awards.
 Guest Speaker – Mr. Bob Sigall, author of "The Companies We Keep"
 Installation of 2005 HCES officers

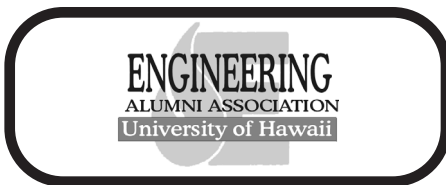
Please reserve ____ table(s) of 10 persons or ____ individual seats for the 2005 Engineers Week Banquet. Rates are \$35 for registration(s) postmarked on or before February 16, 2005, \$40 for registration(s) postmarked after February 16 and \$25 for students. Please type or print names and contact information for attendees.

	Name	Company or Organization	Phone Number
1.	_____	_____	_____
2.	_____	_____	_____
3.	_____	_____	_____
4.	_____	_____	_____
5.	_____	_____	_____
6.	_____	_____	_____
7.	_____	_____	_____
8.	_____	_____	_____
9.	_____	_____	_____
10.	_____	_____	_____

Total enclosed: \$ _____

Make checks payable to "HCES" and mail with completed reservation form to:
 2005 Engineers Week Banquet
 c/o Erik Kaneshiro, HCES Treasurer
 Austin Tsutsumi & Associates, Inc.
 501 Sumner Street, Suite 521
 Honolulu, HI 96817

If you have any questions, please contact HCES Chair Tony Lau at 522-7426 or tlau@hawaii-pacificengineers.com or HCES Vice Chair Westley Chun at 488-0477 or wkcchun@engrsol.com



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New Faculty and Staff at the College of Engineering

The College of Engineering held a reception on January 14 to welcome new faculty and staff members.

EAAUH Vegas Field Trip

EAAUH would like to invite you to join us on a field trip to Las Vegas from May 18 to May 23, 2005. Activities will include the University of Hawaii Alumni Association Las Vegas Chapter Annual Scholarship Golf Tournament, dinners, presentation and slot/poker tournament.

Contact: Diane Kodama (diane.kodama@me.com)

Murakami (continued from page 1)

Competition. The company eventually won a contract for nearly a \$250,000 from the Office of Naval Research of which \$75,000 is being used to subcontract UH.

Mr. Murakami has been an active member in the student branch of the IEEE from his freshman year, participating in the Micromouse Project and competing in the regional competition at California State University at Chico. His involvement with IEEE does not stop at the student chapter level. He has attended two IEEE International Microwave Symposia and presented an award winning paper; attended the IEEE Topical Wireless Conference; and is currently assisting with the local arrangements for the 2007 IEEE International Microwave Symposium, an event that will be held at the Hawaii Convention Center and should draw approximately 10,000 attendees. He has attended the planning meetings in October 2003 (Honolulu, HI) and June 2004 (Fort Worth, TX).

Mr. Murakami is a member of the Golden Key International Honor Society and is the current secretary for Eta Kappa Nu, the electrical engineering honor society. As part of his membership, he regularly provides tutoring for engineering students and has participated in community service events such as United Cerebral Palsy Rubber Duckie Race, Salvation Army Thanksgiving Lunch, Hamilton Library Flood Clean-up, and Ala Moana Clean-up.

Mr. Murakami has also been awarded the NASA Undergraduate Fellow by the Hawaii Space Grant Consortium. He has authored and co-authored a book chapter and 11 conference papers. He has also given several presentations and interviews regarding his research and company. According to the recommendation of Dr. Shiroma of the Electrical Engineering Department, "... I can honestly say that in the eight years that I have served on the University of Hawaii's electrical engineering faculty, Blaine is hands down the most outstanding student I have ever had the privilege of mentoring..." The short list of students from the Electrical Engineering Department who have been nominated for the HSPE Student Engineer of the Year Award includes Kendall Ching (2001), Wen Phan (2002), and Aaron Ohta (2003).

Mr. Blaine Murakami is truly deserving of the HSPE Student Engineer of the Year Award and an exceptional and excellent representative for the engineering profession, the College of Engineering of the University of Hawaii, and the Hawaii's Professional Engineering Societies.

2005 Corps of Engineers Workshop

The 10th annual Honolulu District, U.S. Army Corps of Engineers workshop for architects and engineers, construction contractors and others in related fields, interested in doing business with the Corps will be held at the Hale Koa Hotel in Waikiki, on Tuesday April 19, 2005 from 7:30 a.m. to 1:30 p.m.

The focus will be on informing private sector companies about what they must do to successfully obtain and execute work with the Corps. The agenda will include an update on upcoming Corps projects.

Most of the day will be devoted to a wide range of break out sessions covering various government initiatives and technical subjects. Corps functional area specialists will participate and there will be ample time for questions.

Registration form for the workshop can be found on the opposite page.

FIRST ANNUAL 2005 MASONRY & CONCRETE EXPO OF THE PACIFIC - JUNE 23-25, 2005 at the HAWAII CONVENTION CENTER

Hawaii will be holding a three-day Masonry & Concrete comprised of technical sessions and a two-day Expo. The event offers an invaluable opportunity for networking with professionals from the U.S. and around the globe. Target attendees to the Expo would include: Design Professionals; Developers; Engineers; Contractors; Government Agencies; Property Managers; Craft workers; Retailers/Suppliers; and Building Professional/Consultants.

The Expo's conference theme is: "**Kapili I Na Pohaku Pa'a**", "Build/Mend/Repair Stone Solid." The focus of the Expo is to increase the knowledge and awareness of the masonry and concrete trades and materials; to expand the network of the industry contracts; and to offer opportunities to interact with potential buyers and professionals.

The Expo will also feature: 15th Annual & 8th Invitational Hawaii State Apprenticeship Contest and the Western State Brick & Tile Contest; Exhibitors of building materials, tools and supplies; demonstrations and workshops; and Professional Development Seminars. The Hawaii Convention Center will be the site of the first building and construction show focused on masonry & concrete construction. This would include the mason, cement finishing, plastering and ceramic tile/stone trades and construction and its affiliates.

Input and recommendations from trade organizations, industry professionals and material dealers/suppliers for technical session presentations/topics/speakers are presently being solicited. Please contact: Wayne Kawano, Cement and Concrete Products Industry of Hawaii at 848-7100 or email: wkawano@ccpi-hawaii.org.

The Expo Committee calls upon industry professionals to exhibit their products and services. Exhibitors are now being solicited for this event. Please contact: Annie Kuhlmann, Exhibition Committee Chairperson at 838-7988

or email: annie@miyakeconcrete.com.

Admission to the exhibits and mini-workshops are free. There will be a registration fee for special seminars. The minimum square footage is 100 square feet (10'x10'). Larger booth spaces are configured in multiples of 10'x10'. All booths are assigned on a first-come-first-serve basis. The standard 10'x10' booth is \$950. Payment in full is due on April 1, 2005.



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Microsoft Project: Building and Managing Projects on MS Project (S07521)

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MasterFormat™ Reengineered

by Dennis Hall
FCSI, CCS, CCA, AIA Chairman,
MasterFormat Expansion Task Team

The 2004 edition of *MasterFormat™*, commercial construction's organizational format for project information, has undergone the biggest transformation in the product's 40-year history. Reflecting the industry's input, the resource has been significantly expanded to foster fuller and more detailed project specifications with a view toward reducing changes or delays arising from incomplete, misplaced, or missing information about increasingly complex facilities.

Commonly considered as the "Dewey Decimal System" for project information, *MasterFormat* is a master list of titles and numbers for systematically organizing specifications and other data about projects' construction requirements, products, and activities. Standardizing the formatting of that information aids communication among architects, engineers, specifiers, contractors, and suppliers, which helps projects meet owners' requirements, timelines, and budgets. *MasterFormat* is used for well over 70 percent of the commercial and institutional building projects in the U.S. and Canada.

A Major Reengineering Was Needed

MasterFormat divides project data into divisions, each of which is composed of sections. Since its creation in the early 1960's *MasterFormat* has had a 16-division framework. But while the new edition was being developed the input from hundreds of construction practitioners and organizations including ASCE, it was clear: the 16-division structure, designed for buildings 40 years ago, has become overcrowded and has no expandability. The reason is rapid and large scale advances in construction products and technologies. That trend is expected to continue, if not accelerate.

Telecommunications is but one example. When *MasterFormat*'s original 16 divisions were created most buildings needed only one telephone closet for relatively simple wiring to handle pretty much one thing: telephone calls. Today, "fat pipes" carry huge amounts of data and video as well as voice to and from buildings, which must accommodate complex and fast-advancing telecommunications and computer networks.

And while building technologies have grown in number and complexity, new construction priorities also have emerged. Security and life safety, especially post-9/11, impact project design as never before. Green building and sustainability, rarely mentioned 40 years ago, are rising concerns.

Because *MasterFormat*'s original 16-division format didn't provide enough formatting "slots" for all the information generated for modern construction projects, specifications writers have had to use logic and creativity when developing project manuals. They have created non-standard section numbers for project information the outdated 16-division format didn't address. They also have tacked non-standard divisions on the end of the 16-division system for things older versions of *MasterFormat* didn't address. Officially, these non-standard divisions don't exist, but many different Division 17s (and Division 18s, 19s, and 20s) have been created across the country for everything from telecommunications to railway track work to traffic signals.

Such Band-Aid approaches have resulted in

project information being misplaced or left out, resulting in change orders, errors, omissions, and rework, all of which cost time and money to address. Things would only have gotten worse had *MasterFormat*'s old 16-division structure been left unchanged.

What's New about MasterFormat's 2004 Edition

Based on industry input throughout its development, the philosophy of *MasterFormat 2004 Edition* is to provide an organizational structure for project information that: 1) encompasses all the data, in a systematic way, being generated for today's projects, and 2) can accommodate significant growth, in both volume and complexity, of project information in future years. That philosophy is reflected in the 2004 edition's new features, which include:

General

- Increase from 16 divisions to 50 divisions (00-49).
- Divisions 03 to 14 remain much the same as in *MasterFormat 1995*.
- Some division numbers reserved for future project information needs generated by new products, technologies, and methods.
- New six-digit section numbering system expands roughly tenfold the possible sections in each division.
- Building site construction-related material relocated from old Division 2 to new Divisions 31 and 32.
- New divisions address both vertical and horizontal construction.
- Expanded subject matter of address the entire life cycle of a facility including facility management.

Facility Services Subgroup (Divisions 21-28)

- Separate divisions created for:
 - Fire Suppression (Division 21)
 - Plumbing (Division 22)
 - Heating, Ventilating and Air Conditioning (Division 23)
 - Integrated Automation (Division 25)
 - Electrical (Division 26)
 - Communications (Division 27)
 - Electronic Safety and Security (Division 28)

Site and Infrastructure Subgroup (Divisions 31-35)

Covers transportation, utility, and marine construction, in addition to site and heavy civil construction.

Process Equipment Subgroup (Divisions 40-48)

Addresses construction related to manufacturing, water and wastewater treatment, and power generation as well as other specialized process engineering topics.

How MasterFormat 2004 Edition Can Benefit Engineers

MasterFormat 2004 Edition's new divisions in the Facility Services Subgroup, Site and Infrastructure Subgroup, and Process Equipment Subgroup, in concert with many more sections the new six-digit numbering system make possible, enable engineers to develop more comprehensive and detailed engineering related project specifications. Potential benefits include:

- New divisions and sections specifically targets engineering subject matter for ease in specifying or locating information.
- Titles for sections developed or reviewed by engineering organizations to correctly identify

subject matter.

- All subject matter coordinated to ensure information is located correctly to reduce errors and omissions.
- Expanded subject matter addresses all construction not just buildings.
- As a living document, *MasterFormat* will be periodically updated to respond to changes in the industry and a process to allow firms, manufacturers, and professional organizations such as ASCE to petition for changes is being developed.

As an example, separate divisions were created for communications and integrated automation, formerly addressed in a section or two in the Electrical division of *MasterFormat 1995*. The separate divisions reflect rapidly expanding demand for wiring in today's buildings to address numerous data and communications functions in addition to power delivery. That reality must be fully addressed during a project's design phase through the specifications. It will lead to more cost-efficient and smoother project delivery, as well as aid maintenance and accommodation of new technologies over the project's life

How CSI and Others are Aiding The Transition to MasterFormat 2004 Edition

MasterFormat users have several options and strategies for helping the transition to the 2004 edition be as short and painless as possible:

MasterFormat 2004 Edition's Transition-friendly Features

Two features of the new edition are invaluable to converting from a previous edition:

- The Transition Matrix – An Excel® file on the CD included with the *MasterFormat 2004 Edition*, the matrix shows what the new edition's equivalent section numbers and titles are for the 1995 and 1988 editions' corresponding numbers and titles.
- The Keyword Index – It is an alphabetical list of terms showing what *MasterFormat 2004 Edition* section numbers are best for those subjects.

MasterFormat 2004 Edition Education Programs

CSI is working with the commercial/institutional construction industry to facilitate its transition to *MasterFormat 2004 Edition*. Starting in early 2005, CSI will provide education for groups at architectural, engineering and construction firms, government agencies, corporations, and others. Sessions will address the differences between the 1995 and 2004 editions of *MasterFormat*, best-practice concepts, and transition and implementation strategies relevant to particular groups. Education sessions also will be held at The 49th Annual CSI Show & Convention in Chicago April 19-24, 2005.

A *MasterFormat* Accredited Instructor Program also is scheduled to launch in the spring of 2005. It will prepare people from various segments of the construction industry to teach colleagues about the new resource.

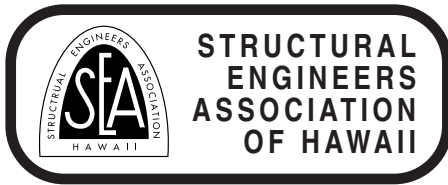
Updated information about *MasterFormat 2004 Edition* education programs is at: www.csinet.org/masterformateducation.

Master Guide Spec Systems Converting

Several master guide specifications systems providers are revising their products to conform to *MasterFormat*'s new edition. They include:

- ARCOM's MASTERSPEC®

(continued on page 14)



PO BOX 3348, HONOLULU, HI 96801
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Director	Les Nagata	951-5916	941-6489
Director	Wayne Kawano	848-7100	848-2626
Director	Dean Doi	955-4441	942-2027
Past Pres	Tom Tanimura	536-7692	537-9022

HIGHLIGHTS OF BOD MEETING

05 January 2005

Committee Reports:

Convention Committee: Tom Tanimura announced that he received a check from the Turtle Bay Resort for the room credit from the 2004 Convention.

New Business:

Randy Chu will research whether the SEA OH funded scholarship has a recipient for the 2004 year.

Wayne Kawano reported that the arrangements for the Installation Banquet are going well. An email message will be sent to the membership as a reminder to attend this fun filled event. The flyer for the Installation Banquet is posted on the website.

HCES is soliciting engineering displays for the Engineer's Week at the Kahala Mall. Engineers' Week is from 20 - 26 February 2005. Anyone interested should contact Dean Doi for more details.

Website Items:

Newly posted articles on the website are as follows:

- Incoming 2005 SEA OH officers, directors and committee chairmen
 - Various new postings on the "Bulletin Board".
- Check out the website for more information.

New Member Applications:

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

Jibao Chen, Kai Hawaii, Inc., applied as an Allied member.

Jerry Fujita, Kai Hawaii, Inc., applied as an Allied member.

John Uno, Consulting Structural Hawaii, applied as an Allied member.

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

2005 Calendar of Events:

Next BOD meeting: 02 February 2005, 4:30 p.m. at Shigemura, Lau, Sakanashi, Higuchi office.

February 9, 2005: Bolting and Welding Seminar from 8:00 a.m. to 4:30 p.m. at the Pagoda Hotel.



HAWAII CHAPTER

P.O. Box 508, Aiea, Hawaii 96701
Phone: (808) 485-1400 Fax: (808) 485-1500
Web Page: www.lgsea.com

2005 OFFICERS & DIRECTORS

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Vice Pres.	Tim Waite	479-1216	941-9079
Secretary			
Treasurer	Will Wong	945-0198	944-1177
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Director	Akira Usami	682-5747	682-2928
Director	Darin Okuda	689-5400	689-5406
Director	Brent Uechi	521-6958	533-6701
Director	Shane Arnold	864-8133	
Past President	Mike Kasamoto	955-6834	955-2483

2005 COMMITTEE CHAIRS

Program: Tim Waite
Technical: Brent Uechi
Membership: Darin Okuda
Sponsorship: Glenn Isidro
Directed R&D: Jim Walfish
Specifications:
Website:

General Membership Update

The 2005 chapter officers and directors will be installed at the Plaza Club on Friday, February 4th. Cocktails are scheduled for 5:30pm with dinner to follow. Scheduled to attend is Don Allen, Executive Director of LGSEA-National, who will perform the traditional duties of swearing in the new administration. Don will also give us an update on new developments in the light gauge steel industry. Featured entertainer is Matthew Gray, former food critic for Honolulu Advertiser and host of Hawaii Food Tours. Matthew will share some of his interesting dining experiences with us!

The Hawaii Pacific Steel Framing Alliance will be hosting the Third Annual Steelman Competition on Saturday 8 A.M. at the Neal Blaisdell Center, in conjunction with the Hawaii Builders and Remodeling Show. Chapter president Jeff Hanyu is a guest judge for the competition. Those visiting the Show should stop by the parking lot adjacent to the box office to view the impressive structures these skilled steel framers accomplish in just a few hours.

The Program Committee is actively preparing this year's slate of programs, look for announcements in

the coming weeks!

The Membership Committee is looking to update the information for our members. You can update your contact information by logging on to www.lgsea.com and entering your member ID and password. If you do not know your login information, please contact Rose Kuria at 1-866-465-4732 to get your information. This database is used by LGSEA to send out the latest newsletters, Tech Notes, and other information. Please update your information as needed. For more information, contact Darin Okuda, Membership Committee Chairperson.



2004-2005 OFFICERS

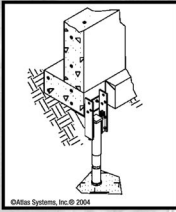
President Wayne Yoshioka
Vice-president Greg Hiyakumoto
Secretary Jodi Chew
Treasurer Robert Nehmad

DECEMBER MEETING SUMMARY

ITE Hawaii Section Meeting was held Dec 15, 2004, at the Natsunoya Teahouse. Speakers were Councilmember Nestor Garcia and Mr. Wes Frysztacki. The topic was transportation issues on Oahu.

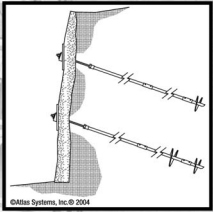
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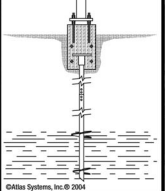
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2004-2005 ASCE Hawaii Section Executive Committee

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PresElect	Walter Billingsley email: wbillingsley@beltcollins.com	846-3232	538-7819
Vice Pres	Lori Fong email: lfong@ascehawaii.org	531-7094	528-2368
Secretary	Phillip Ooi email: ool@wilki.eng.hawaii.edu	956-8512	956-5014
Treasurer	Ron Iwamoto email: ron@iwamotollc.com	454-2348	454-2997
Past Pres	Westley Chun email: wkchun@engrsol.com	488-0477	488-3776

FEBRUARY DINNER MEETING

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

EXECUTIVE COMMITTEE MEETING

February 10, 2005

ENGINEER'S WEEK BANQUET AND RING CEREMONY

An Engineer's Ring Ceremony will be held during the Engineer's Week Banquet on February 26, 2005. 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.

There will be a \$17.50 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. 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 STUDENT SCHOLARSHIPS

Please help us increase our scholarship endowment so that we can recognize those deserving students. We continue to accept tax deductible donations with the goal of establishing a second annual scholarship. Make your check payable to 'ASCE Hawaii Section' and mail to ASCE Scholarship Committee, P.O. Box 917, Honolulu, HI 96808. If you have any questions, please contact Westley Chun at 440-0269, or Westley.Chun@ch2m.com.

WEST POINT BRIDGE CONTEST

An online bridge design contest is available to U.S. students age 13 through grade 12. Anyone else may enter the Open Competition. The main purpose of the contest is to provide middle school and high school students with a realistic, engaging introduction to engineering. The contest provides contestants with an opportunity to:

1. Learn about engineering through a realistic, hands-on problem-solving experience.
2. Learn about the engineering design process—the application of math, science, and technology to create devices and systems that meet human needs.
3. Learn about truss bridges and how they work.
4. Learn how engineers use the computer as a problem-solving tool.
5. Have fun pitting the contestants' problem-solving skills against those of other virtual bridge designers around the globe.

The contest runs from January through April but the Qualifying Round will be conducted from 1:00 p.m. EST on January 6, 2005 to 1:00 p.m. EST on February 28, 2005. The prizes are very generous indeed. Each member of the first-place team will win a \$10,000 scholarship. Each finalist will win a notebook computer. This contest provides an excellent outreach tool to our profession. Please encourage any student you know who is contemplating a career in engineering to check out this competition. Additional information about the contest can be obtained at <http://bridgecontest.usma.edu/index.htm>.

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)
- Bills Engineering Inc. (Civil Engineer, Civil Designer, CADD Technician)
- Board of Water Supply (Chief Capital Projects Officer - Honolulu)
- CH2MHILL (Water Engineer - Honolulu)
- Fewell Geotechnical Engineering (Geotechnical Engineer - Honolulu)
- Fukunaga & Associates (Civil and Civil/Environmental Engineers - Honolulu)
- GeoEngineers, Inc. (Senior Engineer)
- 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.

SIGN-UP FOR THE ASCE HAWAII SECTION'S WEBMAIL LIST

If you would like to receive e-mail notices of upcoming meetings or activities please sign-up for the ASCE Hawaii Section's webmail list at <http://www.ascehawaii.org/emailform.html>. You may also help the ASCE Hawaii Section reduce operating costs by receiving your monthly issue of the Wiliki via e-mail, please contact Joanna Seto at 586-4329 or jseto@ascehawaii.org.

ASCE Hawaii Section Meeting in Las Vegas

ASCE Hawaii Section and ASCE Southern Nevada Branch have discussed the possibility of a joint meeting in Las Vegas from December 7-9, 2005. In addition to the joint meeting, there would likely be additional meetings and a field trip. Travel accommodations would be included in the total costs. We would like to find out if enough Hawaii members are interested before we make any commitments. If you are interested, please contact Tony Lau at tlau@hawaiiapacificengineers.com or at 522-7426 by March 28.



2004-2005 YMF OFFICERS

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Vice-Pres	Scott Jennings sjennings@rci-group.com	845-8440
Secretary	Florence Ching fching@ascehawaii.org	472-1342
Treasurer	Laura Smolinski Smolinski001@hawaii.rr.com	382-7174
Student Chapter President	Jesse Elliot Elliotj@hawaii.edu	956-5808

Next YMF General Meeting

The next two YMF general meetings are scheduled for Tuesday, February 1, 6:00 p.m., at Stuart Anderson's Cattle Company Restaurant, 98-1262 Kaahumanu St. in Pearl City, 487-0054; and Tuesday, March 1, 6:00 p.m., at The Big Island Steak House in Aloha Tower, 537-4446. If you are interested in attending to find out what the YMF is all about and how much fun we have, please call Paulette Chang at 472-1450.

YMF December Social – Kadomatsu Making

By Lisa Takushi, Hawaii Section YMF Social Committee Co-Chair

On Tuesday, December 28, 2004, members and friends of the YMF were invited to join the Kikuchi family and their friends in making traditional Japanese New Year's decorations called kadomatus. A kadomatsu is an arrangement of bamboo stalks and pine branches, which symbolizes strength and longevity. These decorations are displayed at the entrance of a home or business to welcome the spirit of the New Year, which is believed to bring good luck and prosperity.

Mark Kikuchi, a fellow civil engineer at the City, started this annual tradition with his family over 20 years ago. Making a kadomatsu is a full day's work. On that Tuesday morning, Mark along with family and friends were cutting and gathering bamboo from different locations from 7:30 a.m. until lunchtime. A great part of the

afternoon was spent cleaning and cutting the bamboo to specific lengths and styles for arrangement and the remaining part of the day was spent assembling the kadomatsus. With the supplies prepared, the YMF members were instructed how to make their own kadomatsu. They learned where to drill the hole to insert the straw rope, how to arrange the bamboo stalks, how to wrap the bamboo with the rope and where to place the pine branches. A potluck dinner also took place which included great home cooked dishes, drinks and good company.

Last year, the permit required for cutting bamboo changed, restricting only one bamboo stalk per person. This created a limited supply of bamboo for the making of kadomatsus. Fortunately, with the bamboo donations from Westley Chun, the ASCE Hawaii Section 2004 Past President, members from the YMF were able to make their own kadomatsus for the first time.

The YMF would like to thank the Kikuchi family and their friends for their time and effort in preparing the supplies and for teaching us about how to make a kadomatsu. We would also like to thank Westley Chun for his donation of bamboos for this event. From the members of the YMF, we wish everyone a Happy New Year!

ASCE Job Classified

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

KNOW YOUR ASCE HISTORY

by C.S. Papacostas

Whether they are aware of it or not, most of those who have dealt with the Department of Civil Engineering at the University of Hawaii over the last forty plus years have benefited from the competent services of Andrew H. Oshita.

Andy has been the primary and, for long stretches of time, the only laboratory technician at the department. In that capacity, he tirelessly and reliably managed to maintain the support facilities, through years of lean budgets and years of relative plenty. He facilitated laboratory-based instruction and student learning by keeping the test and demonstration equipment in running order, and supported the faculty by helping to design and by fabricating the needed, often one-of-a-kind, research instrumentation.

During the early 1980s, when personal computers began to proliferate, Andy took on the added responsibility of maintaining and troubleshooting these distributed systems as well.

At Andy's retirement ceremony on December 10, 2004, Professor Emeritus Harold S. Hamada recounted eloquently Andy's many contributions to students, faculty and the professional community over the decades. Andy has definitely been an integral part of the history of civil engineering in Hawaii.

During the social hour that followed the ceremony, I noticed that Harold was sporting a shirt emblazoned with the logo of Ameron Hawaii. Harold knew that in that month's historical vignette I had made a reference to the fact that this company had incorporated within it a venerable old local firm, HC&D, that was formed back in 1908.

"My father worked for HC&D. We used to call



Kadomatsu attendees (L to R): Lianna Chang, Lori Nishida, Lisa Takushi & Paulette Chang.

it 'Hot Coffee and Doughnuts,'" he chuckled!

"Funny," I replied, "this is exactly what Wayne Kawano told me after reading the same article. Great structural engineering minds must think alike!"

Wayne is the President of the Cement and Concrete Products Industry (CCPI) of Hawaii, a trade association founded in 1960 and formally incorporated as a non-profit organization in 1965. As a historical note, the May 28, 1965 issue of the Honolulu Star-Bulletin lists John S. Farmer of Kaiser Cement as CCPI President and George Ishida as First Executive Director.

At the time, according to the newspaper, the association's membership included the following: Hawaiian Cement, Kaiser Cement, American Concrete Pipe of Hawaii, HC&D, Maui Concrete & Aggregates, Pacific Concrete & Rock, United Pacific Concrete, Valdastr Limited, Grassi American of Hawaii Corp, and State Tile.

Visiting the association's web site recently, I counted 29 member firms, several of which I recognize as the upshot of a sequence of complicated mergers and acquisitions involving both the original list of companies and others that had already been the result of similar business transactions.

A few days after Andy's retirement function, I received a phone call from Past ASCE-Hawaii President Richard Cox who, just before leaving for a trip to Mexico, wanted to inform me that, in addition to those I had mentioned in November and December 2004, sugar plantations, such as McBride's, were also early

users of coal. According to Dick, these plantations used coal to run steam pumps before converting to bagasse and oil.

This subject deserves further exploration.

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>.



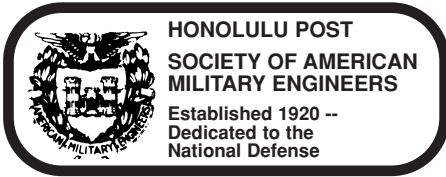
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- ✦ 2-3 years strong professional/investigative/managerial work experience desired
- ✦ 23-36 years of age
- ✦ Drug policy/drug testing mandatory
- ✦ Entry-level salary (GS-10) is \$46,186 Academy training; \$57,646 - \$62,571 upon graduation, including locality/availability pay





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

2004-2005 OFFICERS AND DIRECTORS

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2ND VP (SUSTAINING MEMBERS)
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3RD VP (MEMBERSHIP) Jim Berrson (HED) USA
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SECRETARY Maj Randy Whitecotton (PACAF) USAF
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TREASURER LT James Cho (PWC)USN
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 CMSg Wayne Quattrone (PACAF) USAF
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MEETING NOTES

11 JAN 05

Attendance totaled 83 people composed of: sustaining members (SM) representing the architect/ Engineering/ Construction industries and public sector members (military and civilian) representing the Army, Marine Corps, Navy and Air Force.

Eric Brundage, Zapata Engineering, presented the SM 5-min brief on their services and capabilities.

Lt Gen Carl A. Strock, US Army Chief of Engineers and Commanding General of the US Army Corps of Engineers, gave a presentation entitled, "Making a Difference: USACE Support to the Armed Forces and Our Nation". Highlights of his talk included:

— History: Start of Army Engineer,

Partnership between all the Armed Services
 — The Corps' organization is centered around 9 Divisions with 45 Districts including the Iraq Engineer Command:

— Civ Works: ~\$6 B/yr
 — Mil Works: ~\$16 B/yr includes work in Afghanistan and Iraq
 — Research and Development, Environment, Real Estate
 — Contractors

Gulf Region Division stood up on 1/25/04
 — 3 Districts, 430 people (~600 people at peak), 80% civilian, \$12B program.

— Restore Iraqi Oil: 2.5 million barrels of oil produced per day with new/improved infrastructure

— Restore Iraqi Electricity: ~6,000 MW/day
 — Reconstruction program

— Support USAF contracts
 Afghan Engineer District
 — National Army Infrastructure
 — Support US forces

— Support to USAID humanitarian and national assistance programs

— Support to DoD counter-narcotics through infrastructure development and civil works in addition to just drug interdiction

The Corps' Priority #1: Support Global War on Terrorism (GWOT)

At home:
 - Reach-back support
 - Prevent attack, protect infrastructure, and maintain disaster response capabilities

- Support Army Transformation
 - Infrastructure, Modularity, Joint Capabilities
 - Ongoing Military Programs and Civil Works
 - Implement Civil Works Strat Plan
 — Sustainable solutions; not just engineering solutions

— Ecosystem management
 — Refine USACE strat plan

In Gulf Region
 In Afghan Region

Post officers presented updates on old and new Post business: Scholarships drive, Engineer's Week activities, and Youth programs (GEMS and Science Fair)

Next month we will host the "2005 Engineer's Week Kick-Off Luncheon"

— Will be held at 1130 on Tues, 22 Feb 05 at the Hale Koa, Banyan Tree Showroom

— Contact Warren Hall to RSVP (see Wiliki Form on page 2 to signup; advance registration and payment is required)



**Society of American Military Engineers
 Honolulu Post Scholarship**

Award: Two \$2,500 scholarships with a 1-year SAME 'Student Member' membership

Eligibility:

- (1) High school senior planning to pursue a full-time undergraduate technical degree at a university with an accredited engineering or architecture program or an Engineering or Architecture Major enrolled at an accredited university
- (2) U.S. Citizen
- (3) Minimum 3.0 GPA (require copy of latest transcript)
- (4) Military affiliation or experience (i.e., SAME member or dependent, military dependent, Junior ROTC or ROTC) not required, but given preference

Requirement: Submit application information (below) with transcript and the following documents typewritten and double-spaced:

- (1) Resume of work experience, academic and extra-curricular accomplishments (one page maximum).
- (2) Essay (one page maximum) written around an engineering or architecture theme and its impact on society and the nation's defense/homeland security.

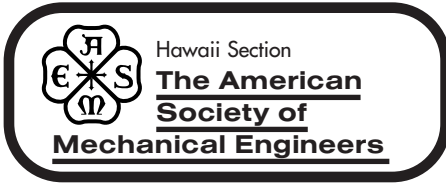
Mail To: LCDR Dustin Hamacher
 USCG Naval Engineering Unit Honolulu
 Attn: SAME Scholarship Committee
 Sand Island Road
 Honolulu, HI 96819-4398

Deadline: Postmark by 15 March 2005

For Further Information: Lieutenant Commander Hamacher, (808) 843-3871

Application Information: (Typewritten)

Name: _____ Citizenship: _____
 Home Address: _____ City _____ State _____ Zip _____
 Phone: _____ E-Mail (if any): _____
 School: _____ Major: _____ Student Number: _____
 GPA: _____ Student Status: Undergraduate _____ Graduate _____ (Check Applicable)
 Full Time Student: Yes _____ No _____ Anticipated Graduation Date: _____
 Military Experience/Affiliation: _____ SAME Affiliation: _____



Website: www.sections.asme.org/hawaii

ASME-HI 2004-2005 Officers

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

HAWAII SECTION GENERAL MEETING

Date: Tuesday, March 8, 2005
 Time: 5:30 p.m. to 6:30 p.m.
 Place: Hawaiian Electric Company, Inc. Ward Avenue Cafeteria

Program: Continue planning the ASME's 125th Anniversary and section activities. The Officers and Directors of ASME-HI look forward to seeing new and familiar faces. Lots of free pizza and pop are always provided. Please contact Ray Liu or Sam Gillie for directions and for more information.

JANUARY 5th SECTION MEETING HIGHLIGHTS

Nametags for the Engineers Week Banquet will be same as last year using the stick on tags. Ray Liu will put together an ASME-HI poster for the Engineers Week Displays highlighting ASME's 125th Anniversary. A tour of the Pacific Tsunami Center, Hawaiian Waters Adventure Park, and Big Island facilities were suggested. The following members were nominated for 2005-2006 section offices, Chairman Ray Liu, Vice-Chair Rodney Krienke, Treasurer Derick Kam, Secretary Kevin Dang, and Director Jim Grogan.

NOMINATIONS FOR ASME-HI SECTION 2005 PROJECT/DESIGN OUTSTANDING ACHIEVEMENT AWARD

The nomination deadline is April 30, 2005. 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 at 543-4227. The nomination process is very simple, easy, and fast.

REQUEST FOR DONATIONS FOR THE ASME HUMAN POWERED VEHICLE (HPV) AND MINI BAJA PROJECTS

The UHM ASME Student Section HPV Team and Mini Baja Team continue to seek support and donations from the engineering community for expenses to design, build, and compete in their respective competitions.

The HPV Team plans to compete in the April 29 – May 1, 2005 ASME West Coast Competition, while the Mini Baja Team plans to compete in the June 1 – 4, 2005 Arizona competition. Because of the high cost to participate in these annual student competitions, the students seek your help in funding. They expect expenses to reach as high as \$14,000 for HPV and \$25,000 for Mini Baja for materials and travel. Donations are tax deductible. Checks can be made out to "UH Foundation/Engineering" (specify HPV or

Minim Baja or both) and mailed c/o Dr. Mehrdad Ghasemi Nejhad, Department of Mechanical Engineering, University of Hawaii at Manoa, 2540 Dole Street, Holmes Hall #302, Honolulu, HI 96822. Any support will be greatly appreciated.

ASME'S 125th ANNIVERSARY ACTIVITIES REMINDER

Log onto www.asme.org/anniversary for up-to-date information on events for ASME's 125th anniversary. Events that are scheduled to take place in 2005 so far:

- Founders Day: February 16, Wednesday
- Boiler Code Day: March 12, Saturday
- Heritage Day: April 7, Thursday

Other events slated to take place during 2005 include landmark designations for William Seller's Screw Threads at the Franklin Institute in Philadelphia, PA and the Model-T at the Henry Ford Museum in Dearborn, MI.

Did you know that the ASME anniversary logo will become the Society's permanent logo beginning in June 2005? The Board of Governors approved this transition and voted "to retain the cloverleaf as the emblem in ASME products and services as appropriate." This is part of ASME's Continuity and Change initiative.

ASME CONTINUITY & CHANGE

The ASME Continuity and Change initiative was featured in the August 2004 Wiliki. Around that time ASME entered Phase II of its change management process. This phase is designed to maximize member and staff participation in ASME's transition to the Board-approved model (organizational structure) through project teams that are planning the transition. Currently over ten project teams have been formed and authorized by the Project Manager Task Force. A project team is comprised of member volunteers and staff. These project teams will define how existing society units will move to the new organizational structure, establish roles for the newly defined units, and present the team's plan for approval. The project teams report their progress and status in the ASME Continuity and Change web site.

For more information, clarifications, updates or details please visit the ASME web site. Members who are not directly involved and are not on any project team can provide input through the Continuity and Change web site "Discussion Board" or e-mailing the ASME President. Phase II is scheduled to be completed July 2005. The following phase is implementation.

FUTURE TOURS AND EVENTS

- P.E. Study Group and P.E. Refresher Course: Chairman Ray Liu is planning to organize a FE/P.E. study group for this April's exam. He is also coordinating a review course for the October exam with Dr. Charly Kinoshita and Dr. Stephen Masutani as instructors.
- Whale watching tour & tour of the engine room: Hosted by member P. Michael Watson, President of American Dream Cruises, about early March 2005.
- Tour and Hawaii Section meeting with Big Island member in Kona for next year in May. Possible sites to visit include cold water bottling plant, HELCO Keahole Power Plant, and the Hamakua Partners Power Plant. Other suggestions will be appreciated.



www.sfpehawaii.org

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@ccdoca.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. Orlovski	474-3819
	<i>email: orlovskim0@pwcpearl.navy.mil</i>	
	Robert M. Miller, P.E.	951-7215
	<i>email: rfmiller@hawaii.rr.com</i>	
Webmaster	Derick Kam	
	<i>email: kam@thermaleng.com</i>	

SEMINARS CO-SPONSORED BY: SFPE - HAWAII and AUTOMATIC FIRE ALARM ASSOCIATION

Fire Alarm Testing & Inspections Seminar

February 22, 2005
 Hilton Hawaiian Village
 COST: AFAA members, their employees, and government employees-\$229 each; 3 or more-\$206 each
 Non-members-\$279 each; 3 or more-\$251 each

Advanced Fire Alarm Seminar (NICET III & IV)

February 23-24, 2005
 Hilton Hawaiian Village
 COST: AFAA members, their employees, and government employees-\$429 each; 3 or more-\$386 each
 Non-members-\$499 each; 3 or more-\$449 each
 Instructor: Michael Baker, SET, AFAA Training Director

SFPE-Hawaii members are eligible for the AFAA discount. When registering, they simply have to let us know that they are a member of SFPE-Hawaii. The registration fee includes lunch and coffee plus a student workbook/study guide and handouts.

Please make all checks payable to:

Automatic Fire Alarm Association
 PO Box 951807
 Lake Mary, FL 32795-1807
 407-322-6288 Phone
 407-322-7488 Fax

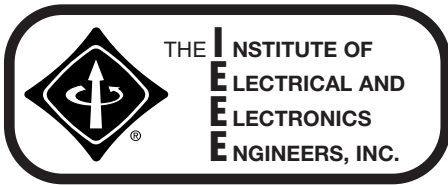
HAWAII SFPE SEMINAR PRESENTATION

INTRODUCTION TO FIRE DYNAMICS SIMULATOR AND SMOKEVIEW

Through a special arrangement with the Society of Fire Protection Engineers the Hawaii Chapter of the Society of Fire Protection Engineers is sponsoring this excellent 2-1/2 day seminar. This is the first time this seminar has been offered in Hawaii.

The Fire Dynamics Simulator is the newest and most versatile of the fire models developed by the National Institute of Standards and Technology (NIST). The Fire Dynamics Simulator has been used for many types of problems like sprinkler activation in warehouse

(continued on page 14)



IEEE Hawaii Section

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

2005 HAWAII SECTION OFFICERS

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 Vice Chair: Alison Lee 224-9723
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 Computer Society Chair: Nancy Romer
 (NLRomer@aol.com)
 Vice Chair: Tri Nguyen
 Secretary: Sally Dunan
 Webmaster: Leslie Fife

The IEEE USA Board met in Hawaii (OpCom) on January 15 in the Marriott Beach Hotel. They opened the meeting to the members of the Hawaii Section. The presiding officer was Gerald Alphonse, IEEE USA President, and assisting him was 2006 President Elect, Ralph Wyndrum, and other members and staff of the organization. Highlights of the meeting:

- 1) appointed officers for 2005 were finalized for the IEEE Board of Directors meeting in San Francisco, 17 Feb.
- 2) Falling membership in IEEE-USA.
- 3) Un-employment, Offshoring, H1B visas and falling median wages across the board.
- 4) Future of AAES (American Association of Engineering Societies) and difficulties in working together with other engineering societies.
- 5) Strategic and Operational Plan.
- 6) Plans of 2005 IEEE-USA Leadership Workshop 11-13 March, in Tucson, AZ

SFPE (continued from page 13)

fires, tenability in residential fires, and smoke concentration in outdoor pool fires.

The NIST Fire Dynamics Simulator consists of two programs - FDS and Smokeview. The NIST Fire Dynamics Simulator predicts smoke and/or air flow movement caused by fire, wind, ventilation systems etc. Smokeview visualizes the predictions generated by FDS. FDS, a computational fluid dynamics (CFD) model, solves a form of the Navier-Stokes equations appropriate for low-speed, thermally-driven flows of

smoke and hot gases generated in a fire. FDS has integrated sub models that calculate many fire related phenomena such as radiative and convective heat transfer, sprinkler activation and sprinkler sprays, mixture fraction combustion model, and many others.

Date: Tues-Thurs February 1-3, 2005
 Time: 8:00 AM - 4:00 PM Tuesday and Wednesday
 8:00 AM - 12:00 PM Thursday
 Location: Fort Shafter Golf Clubhouse (Hale Ikena)

Cost: \$600 (\$400 for SFPE members & Chapter Friends). Discount may be applied only to those registrants who pay in advance by check or money order. Seminar attendees will receive a seminar workbook and a certificate of completion. The registration fee also includes lunch & coffee breaks each day.

Instructors: The seminar will be taught by Douglas Carpenter of Combustion Science & Engineering, Columbia, Md. and Chris Woods of Arup Fire Consulting, Worcester, Ma.

Deadline: The registration deadline is Friday, January 28, 2005

Who should attend: This 2-1/2 day course is intended for engineers with a background in fluid dynamics and fire dynamics. Attendees need to bring a laptop computer pre-loaded with FDS software. Software available for free at: <http://fire.nist.gov/fds/>

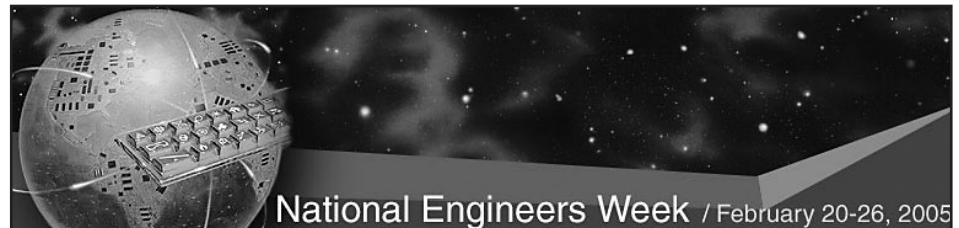
For information and to register contact:
 Sam Dannaway, Program Chairman
 Hawaii Chapter SFPE
 Tel (808) 526-9019 / Fax (808) 537-5385
 E-mail: seminars@sfpehawaii.org

MasterFormat™ (continued from page 8)

- Building Systems Design's BSD SpecLink® (global switch enables specifications to be rearranged per MasterFormat's 2004 or 1995 editions with one mouse-click.)
 - CSRF SpecText®
 - Digicon Information Inc.
 - Canada's National Master Guide Specifications, commonly known as the NMS (National Master Specification)
 - DOD's United Facility Guide Specifications
- For more information about MasterFormat 2004 Edition, visit www.csinet.org/masterformat or call CSI at 800-689-2900.

CSI MasterFormat™ 2004 Edition Seminar

When: Tuesday, February 15th, 2005
 Time: 7:30 am Registration and Buffet Breakfast
 8:15 am Seminar Begins
 9:45 am Question and Answers
 Where: Neal S. Blaisdell Center, Hawai'i Suites
 Cost: \$25.00 CSI Members
 \$35.00 Non-CSI Members
 Parking: Flat Rate
 Speaker: Dennis J. Hall, FCSI, CCS, CCCA, AIA is founder and managing principal of Hall Architect, Inc. in Charlotte, North Carolina. He is Chairman of the CSI/CSC MasterFormat Expansion Task Team and also serves on the OmniClass Construction Classification System (OCCS) Development Committee.



Engineer's Week 2005 CALL FOR EXHIBITS

by the Hawaii Council of Engineering Societies



Your company/organization is encouraged to create a display that will increase public awareness and appreciation of the engineering profession. In the past, displays have included posters, 3-D models, and interactive systems.

- Exhibits will be displayed at Kahala Mall Shopping Center
- Exhibition period will occur from Monday, February 21, 2005 through Sunday, February 27, 2005
- Entries will be judged on presentation, technical merit and promotion of the engineering profession
- An award will be presented for each of the above categories at the Engineer's Week banquet on Saturday, February 26, 2005.

The deadline for completing the information in this form is January 21, 2005. Fax or E-mail completed form to Cheryl Yoshida at 945-7213 or cyoshida@ch2m.com

Name of Company/Organization: _____

Contact Person: _____

Phone No.: _____ Fax No.: _____ E-mail: _____

Representative at Banquet (February 26th) _____

(Dinner Fee Required)

Please attach a one to two paragraph summary describing your display (size and content). Also, indicate any special needs that your display may require (i.e. table, electricity). You will be contacted to confirm the availability of the requested items.

Tentative Schedule for Set-up is Monday (2/21) before 10 am, and Dismantle Sunday (2/27) after 5 pm or Monday (2/28) before 10 am.

Kawaguchi (continued from page 1)

Then in February 1976, Stan was transferred back to his hometown of Honolulu as the Deputy Pacific Basin Area Manager of Parsons Brinckerhoff Quade & Douglas, Inc. under Mr. Marty Rubin. About a week after he got the Honolulu Office, the U.S. Court of Appeals of the Ninth Circuit in San Francisco handed down an adverse decision on the Interstate Route H-3 Project. The Court ruled that Moanalua Valley, which was the route selected for H-3, was entitled to be treated as a Section 4(f) property and was entitled to protections under that section.

This started Stan's involvement with H-3, and it was to be an involvement and love affair that lasted from 1976 to the present. He very quickly became the State's expert on Section 4(f) and in fact was heavily involved in the follow-up planning, preparation of environmental documentation, conceptual designs, legislative action, legal battles, local politics, and community and business support related to H-3.

A significant period of the battle for H-3 occurred in 1985-1986. In October 1984, the Ninth Circuit once again handed the State a setback on H-3. This time the State's response was to go to Congress and ask for an exemption from Section 4(f). This was a major effort that resulted in Stan spending half his time during all of 1985 and 1986 in Washington D.C., working closely with Hawaii's Congressional delegation and the State's lobbyist, Mr. Jack Ferguson.

During this two-year period, Stan learned a lot and contributed a lot to the lobbying effort, which culminated in a bill signed into law by President Reagan in October 1986. This bill was the single action which permitted the design and construction of H-3 to proceed in 1987. The result was many millions of dollars into Hawaii's economy, thousands of jobs, and in December 1997 the opening of H-3 as the third Trans-Koolau crossing.

There are numerous other projects that Stan has been involved with such as the Kalaniana'ole Highway Improvement Project, the Hotel Street Bus Mall, and the Admiral Clarey (Ford Island) Bridge. However, rather than relate the details of his involvement with these projects, it is perhaps most significant to mention that through all of this, Stan has always infused in his people the need to keep three values paramount – QUALITY, INNOVATION, AND RESPONSIVENESS. In fact, during his term in 1996-1997 as National President of the American Consulting Engineers Council (ACEC – now renamed the American Council of Engineering Companies), the theme he chose for his administration was QUALITY & INNOVATION: THE JOURNEY CONTINUES, meaning that this journey will never have an end for us as engineers.

This then leads to the service that Stan has given to both his profession and his community. From leadership of local professional organizations such as the Hawaii Section of the American Society of Civil Engineers and the Consulting Engineers Council of Hawaii (CECH now renamed ACECH), to national organizations (American Council of Engineering Companies or ACEC) and to international organizations (International Federation of Consulting Engineers or FIDIC), Stan has always involved himself to the fullest in any assignment that has been given to him.

Participation in various professional and community organizations and efforts prepared Stan for national posts such as the National President of ACEC, as it has for others from Hawaii. The experiences gleaned from involvement with local professional societies, trade organizations, community activities, and volunteer organizations have all contributed to the shaping of Stan's philosophy of giving back to his profession and to his community.

Stan's involvement provides a target that he hopes all engineers will aspire to and will exceed. Only then will our image as engineers be elevated to an appropriate level in the eyes of our community.

Akinaka (continued from page 1)

Association, which presented him with their prestigious Fuller Award as well as Honorary Member status. He is also an active member of the American Public Works Association, American Society of Civil Engineers, the Water Environment Federation, as well as HSPE.

Mr. Akinaka also served as a member of the State Board of Professional Engineers, Architects, Surveyors, and Landscape Architects where his assistance in assuring the high quality of engineers for the State of Hawaii was much appreciated. He is committed to mentoring young engineers in their career development by serving as a member of the Board of Trustees for the University of Hawaii chapter of Chi Epsilon, the National Civil Engineering Honor Society.

Mr. Akinaka recognizes that he also has a social responsibility to his community, and has unselfishly given his time and energy to organizations such as the Kalihi YMCA, the University of Hawaii, the Punahou School Alumni Association, and the Hawaii Island United Way, among others. Along the way, he has earned the respect, admiration, and appreciation of many in the community.

Mr. Akinaka serves as a shining example of what it takes to be a successful engineer and citizen. Congratulations to Mr. Robert Y. Akinaka, 2005 Engineer of the Year.

Katahira (continued from page 1)

"Forty Under 40" program. Also in 2002, TLCG ranked 20th on Pacific Business News' list of "Hawaii's Fastest 50" growth businesses. In November 2004, Mr. Katahira was awarded the Honorary Naval Aviator for USS Abraham Lincoln Embark through the Navy's Distinguished Visitor Program. This program recognizes Hawaii's business and community leaders.

A couple of Mr. Katahira noted projects included:

- Nimitz Sewer Reconstruction at OCCC project that identified and evaluated problem areas and provided recommendations for a preferred design alternative.
- Barbers Point Non-Potable Reservoir for recycled water storage from the Honouliuli Water Reclamation Facility. Upon construction, this would be Oahu's first recycled water storage tank.
- Fort Weaver Road Manhole and Pipe Rehabilitation project.

Mr. Katahira is equally dedicated to serve his community. He is active in the Boys and Girls Club of Hawaii and is an active member of the Board of Directors. He is instrumental in organizing and developing the Boys and Girls Club of Hawaii Alliance Board. (The Alliance Board serves as a training ground for future volunteer community leaders.) He is also committed to creating career opportunities for Hawaii's youth through his active involvement in civic organizations and participation in public speaking engagements to middle school, high school, and college students.

Mr. Katahira's dedication to the engineering profession is visible at various levels. As a business leader, he has expanded his company and created new opportunities for local talents. As a community leader, he continues to cultivate our future leaders and promotes volunteerism. We are indeed fortunate to have Mr. Katahira representing us in the engineering community. Congratulations to Mr. John Katahira, P.E. as the Young Engineer of the Year for 2005.





Next Deadline

for

Wiliki

is February 15th

Professional Directory

 <p>WEST THOMAS ASSOCIATES Land Surveyors 75-5749 Kalawa St., Kailua-Kona, Hawaii 96740-1817 Tel: 808 329-2353 Fax: 808-329-5334 Surveying Hawaii Since 1975</p>	 <p>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</p>	 <p>R. M. TOWILL CORPORATION SINCE 1930 PLANNING • ENGINEERING • ENVIRONMENTAL SERVICES PHOTOGRAMMETRY • SURVEYING • CONSTRUCTION MANAGEMENT 420 WAIKAMALO ROAD HONOLULU HAWAII 96817-4941 808 842 1133</p>	 <p>Engineers Scientists Program and Construction Managers Environmental Planners 615 Piikoi Street, 9th Floor Honolulu, Hawaii 96814-3141 Ph: (808) 593-1116 Fx: (808) 593-1198</p>
<p>WALKER INDUSTRIES, LTD. Precast Concrete Products  AARON UNO P.O. Box 1568 Kahului, Maui, Hawaii 96732 Maui (808) 877-3430 Fax (808) 871-7282</p>	<p>Tim Waite, P.E. Sales, Engineer Mobile: 808-479-1216 Email: twait@strongtie.com  Simpson Strong-Tie Co., Inc.</p>	<p>Weston Solutions, Inc. Suite 2301 841 Bishop Street Honolulu, Hawaii 96813 Phone: 808.585.0448 Fax: 808.585.7378 www.westonsolutions.com  An employee-ownership Company</p>	 <p>Civil Engineers Structural Engineers Traffic Engineers Planners PH 808.946.2277 1907 S. Beretania St., Suite 400 FX 808.946.2253 Honolulu, Hawaii 96826 wilsonokamoto.com</p>

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