

2003-2004 College of Engineering Highlights

Another successful year has passed at the College of Engineering. With its high-caliber faculty, alumni, students, and staff working together, the College continues to achieve new levels of excellence. This article will take a look back at a few of the highlights of the past year, which include the appointments of a new Associate and Assistant Dean, hiring of new faculty, enrollment increases, research, and some of the College's newest programs.

Two of the major highlights of the past year were the appointments of the new Associate and Assistant Deans.

After an extensive search, Dean Wai-Fah Chen appointed Electrical Engineering Professor Vassilis Syrmos the Associate Dean and Song Choi, an Assistant Professor in the Mechanical Engineering Department, the new Assistant Dean. Prior to the appointment, Syrmos served as the Interim Associate Dean for the College. Choi will be taking over for Electrical Engineering Assistant Professor Tep Dobry. Dobry will serve as Director for Student Advising.

New Faculty

During the previous two years, the College has seen tremendous growth in its faculty, hiring thirteen new members. Recently, the Electrical Engineering Department hired two new faculty and the Mechanical Engineering Department hired four new faculty:

- John Allen received his Ph.D. (1997) in Mechanical Engineering from the University of Washington. His research interests include acoustics, cavitation and bubble dynamics, fluid-structure interactions, biomedical engineering, biomaterials, and rheology.
- Gürdal Arslan earned his Ph.D. (2001) in Electrical Engineering from the University of Illinois at Urbana-Champaign. His research interests lie in multi-agent systems, hierarchical control, decentralized control, nonlinear systems, reinforcement learning, and game theory.
- Peter Berkelman received his Ph.D. (1999) in Robotics from Carnegie-Mellon University. His research interests include haptic interfaces, surgical robotics, and magnetic levitation.
- Lily Laiho received her Ph.D. (2004) in Mechanical Engineering from the Massachusetts Institute of Technology. Her research interests are in the areas of biomedical imaging, optical biopsy, spectroscopy, and tissue engineering.
- Luca Macchiarulo earned his Ph.D. (1999) in Electrical Engineering from the Politecnico di

Torino in Italy. His interests include theory and applications of multi-valued logic, synthesis techniques, neural networks, theoretical investigations on properties of binary and multi-valued decision diagrams, and VLSI implementation of PTL logic families.

- Weilin Qu received his Ph.D. (2004) in Mechanical Engineering from Purdue University. His research interests lie in micro-scale thermal/fluid transport processes, boiling and two-phase flow, high-heat-flux thermal management, and electronic cooling.

Enrollment

For the third straight year the College has seen growth in both undergraduate and graduate enrollment.

The most noticeable increases have occurred at the undergraduate level. For the fall 2003 semester, undergraduate enrollment grew by 15 percent from the previous fall semester. Each department saw significant increases. The Civil and Environmental Engineering Department had a 16 percent rise; the Electrical Engineering Department grew by 10 percent; and the Mechanical Engineering Department had a significant 24 percent swell in undergraduate enrollment.

At the graduate level, the Electrical Engineering Department had an 8 percent gain and the Mechanical Engineering Department saw a 33 percent increase.

Research

The faculty continues to bring in millions of dollars in sponsored research. During the 2003-2004 fiscal year, the faculty brought in over \$4.7 million for research. Over the past three years, the faculty has received over \$16.6 million in research grants and contracts.

Some of the research highlights from this past year include, Mechanical Engineering Assistant Professor Yuling Yan's research on developing analytical tools for high-speed laryngeal imaging in clinical applications, which is funded by the National Science Foundation; Electrical Engineering Professor Vassilis Syrmos' work on integrated vehicle health management; Mechanical Engineering Professor Lloyd Hihara's corrosion research for the military; Civil and Environmental Engineering Professor Ronald Riggs' research on instrumenting and monitoring the performance of FRP shear strengthening; Mechanical Engineering Professor Junku Yuh's work on the Semi-Autonomous Underwater Vehicle for Intervention Missions; and Hawaii Center for Advanced Communications (HCAC) Professor Magdy Iskander's instrumentation

grant from the National Science Foundation to establish three state-of-the-art laboratory facilities including a wireless test bed, microwave network analysis lab, and an indoor antenna range.

Programs & Student Projects

The Native Hawaiian Engineering Mentoring Program, established with a five-year grant from the National Science Foundation, is one of the newest programs the College has developed. It is a part of the Pacific Alliance, a partnership among academic institutions, industry, government agencies and laboratories, and professional organizations to create empowerment and excitement over engineering and science among indigenous students. The alliance consists of the University of Hawaii, University of Washington, University of Alaska-Anchorage, and University of Alaska-Fairbanks.

One program that has helped with undergraduate recruitment is the College of Engineering High School Summer Internship, which is in its fourth year. This past summer, twenty interns participated in the program, working under faculty and student mentors in the areas of composite materials, circuit design, corrosion, wastewater technology, tsunami simulation, robotics, structural engineering, and traffic simulation.

One program that has aimed to improve our undergraduate retention is the establishment of the Engineering Clinic Program by HCAC. This program attracted six industrial sponsors that provided resources for undergraduate students to work with faculty members to solve real world engineering problems.

A special student project that has received a lot of attention is the Nanosat project, which is a spin off from the highly publicized CubeSat project. The endeavor involves the designing, fabricating, testing, and launching of a nanosatellite. The University of Hawaii was one of 13 universities in the nation to receive a \$100,000 grant from the U.S. Air Force and the National Aeronautics and Space Administration to develop a Nanosat program.

Strategic Plan 2004-2006

The College is developing a strategic plan that focuses on six key elements designed to take the College to the next level of excellence. It calls for significant opportunities for undergraduate research participation; an increased enrollment of Ph.D. students; an enhanced international presence; expanded outreach programs; improved interaction among all stu-

(continued on page 9)



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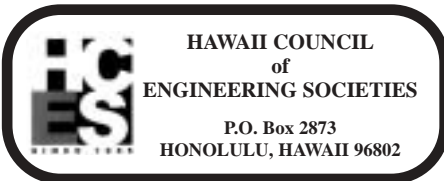
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2004-2005 EAAUH Scholarships

Congratulations to the recipients of the 2004-2005 EAAUH Scholarships:

Rodney Yama, Kapa'a High School (CE)
Kyle Kiyonaga, Aiea High School (CE)
Orlando Layugan, Farrington High School (EE)
Tyson Kikugawa, Mililani High School (EE)
Thomas Matthews, Hilo High School (ME)
Cindel Jacintho, Lanai High School (ME)

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

2004 EAAUH Golf Tournament:

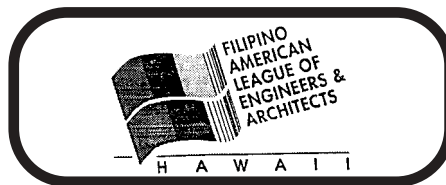
Congratulations to the winners of this year's event:

Overall Low Net: Ken Tatsuguchi
Low Net: Flight A – Greg Fukumitsu, Flight B – Randy Murayama, Flight C – Ron Iwamoto, Flight D – Eric Matsumoto, Flight S – Mike Oshiro.

Low Gross: Flight A – Mike Umemoto, Flight B – Aaron Yahiku, Flight C – Garrett Ichimura, Flight D – Russell Arakaki, Flight S – Henry Fujita.

The tournament was held at the Pearl Country Club on July 30. Pictures will be posted on the EAAUH website (www.eaauh.org).

Thank you again to all the donors, sponsors and volunteers for making the event possible!



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JOINT LUNCHEON MEETING

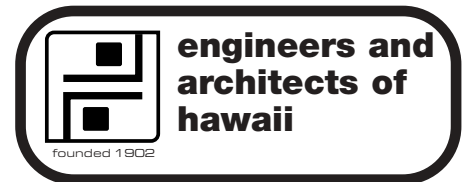
All are welcome to the upcoming luncheon organized by the AACE and SAVE presenting guest speaker Duke Bainum: "Honolulu 20/20 A Clear Vision for Honolulu's Future".

Date: 29 September 2004
Time: 11:30 a.m. - 1:30 p.m.
Place: The Willows – 901 Hausten Street Honolulu Hawaii 96826
Cost: \$22 AACE & SAVE members, \$24 non-members

RSVP by 15 September 2004

Please send checks to:
Amarjit Singh (Treasurer, AACE)
University of Hawaii
2540 Dole Street
Honolulu, Hawaii 96822
Tel: 956-3933
Email: singh@eng.hawaii.edu

Checks to be received by 22 September 2004



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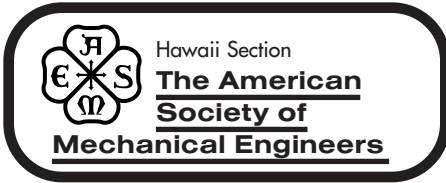
Programs for September 2004

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.





Website: www.sections.asme.org/hawaii

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HAWAII SECTION MEETING ON KAUAI

Date: Saturday, September 25, 2004
 Time: 5:30 p.m. to 7:00 p.m.
 Place: Restaurant location on Kauai To Be Announced.
 Program: ASME-HI General Meeting with Kauai members.

HAWAII SECTION GENERAL MEETING

Date: Tuesday, October 12, 2004
 Time: 5:30 p.m. to 7:00 p.m.
 Place: Hawaiian Electric Company, Inc. Ward Avenue Cafeteria
 Program: Planning for the 125th Anniversary of ASME

This meeting is open to any ASME member who is interested in participating in the planning for the ASME's 125th Anniversary. Members are encouraged to attend. 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.

NEW ASME-HI SPORT SHIRTS NOW AVAILABLE

To celebrate the 125th Anniversary of ASME, the new ASME Hawaii Section sport shirts are now available for purchase. The officers of the Hawaii Section have worked toward obtaining section shirts for the membership to promote the proud, rich and distinguished profession of mechanical engineering since the founding of the Society in 1880.

This Section sport shirt features the new official 125th Anniversary ASME logo and includes a globe and the words "ASME, SETTING THE STANDARD, 1880 - 2005, HAWAII SECTION." The logo is placed on the left chest area of the Steadman by Hanes basket weave sport shirt. Color of the shirt will be Natural/Pebble and various sizes are available. Cost is \$20 each.

Since the founding of the Society in 1880, ASME continues to set the standard in the profession of engineering with codes, short course and conferences, among other items, that are available to its members. The Society has always and continues to be the leading technical and professional leadership society for mechanical engineers.

ASME-HI Section caps is our next project. The color of the caps will be similar to the sport shirt with the anniversary logo and "Hawaii Section" in the front and Region IX in the back.

2004 OUTSTANDING MECHANICAL ENGINEERING PROJECT AWARDS PRESENTED

On August 3, 2004, the Pacific Biodiesel Plant and the Hawaii Fuel Cell Test Facility received ASME-HI 2004 Outstanding Projects

awards. George Aiwohi, Plant Manager, made a presentation and received the award plaque for Pacific Biodiesel, while Keith Bethune, Assistance Specialist with the Hawaii Natural Energy Institute (HNEI), made the presentation and accepted the award plaque for the Hawaii Fuel Cell Facility.

The audience included Tracy Aiwohi, assisting with both PowerPoint presentations; Jack Huizingh, supporting Keith Bethune; Dr. Bruce Liebert, Chairman of the Department of Mechanical Engineering, UHM; Ron Sakai, past ASME-HI Chair (1988-1989) and Senior Project Manager at Alaka'i Mechanical Corp.; and current ASHRAE Hawaii President, Victor Russell of DSA Engineering.

ASME LAUNCHES COMMUNITIES OF PRACTICE

Want to talk to your peers about technical matters, career and personal interests? Now ASME offers its members a new tool to communicate, get information and meet others with similar interests and concerns at the new ASME Communities of Practice site www.cop.asme.org. On this site you can join a community, search for a community member, suggest a new community, participate in discussions and polls, and post your own message or request to be notified when messages are posted on the community.

You will need to register the first time that you use the page, and set your preferences for your home page. It only takes a few minutes, and then you are ready to participate or just observe the discussions.

ASME CONGRESS 2004: HEAT TRANSFER PROGRAM

The conference will be held November 13-19, 2004 in Anaheim, CA. Those with interest in Heat Transfer can access the conference program and preview the technical sessions focusing on heat transfer, by going to www.asme.org/congress. In each session listing, you will find the title, participants with their affiliations, paper titles, and abstracts.

ASME MEMBER GEORGE DEMOPOULOS LEAVING

ASME-HI thanks George Demopoulos for his service to the section. As a member of the Hawaii Section for the past 8 years, George had become active with the section after leaving the U.S. Navy as a Lieutenant Commander. He has been instrumental in proposing new ideas aimed to get more members involved with the section.

George Demopoulos is relocating to the San Diego area where his wife who will receive

her Ph.D. in Oceanography from UHM will be working. George will be working in the military defense sector, utilizing his Navy training in addition to project management skills from his Engineering Project Management masters degree program. George plans to continue his efforts in promoting the profession of mechanical engineering with the San Diego Section of ASME.

FUTURE ACTIVITIES

Several tours and meeting speakers are being planned. Also visit the ASME-HI website for more information.

- Sept. 9, 2004, Annual Pearl Harbor Boat Tour, at 4:00 p.m., hosted by Stanford Yuen. You should not miss this tour if you have not been on it before. It's free, there's lots of free parking. Stanford gives a great description of the sites. Nine seats still available. Don't miss the boat. Contact Ed Chang at 543-4227.
- Sept. 25, 2004, Kapaia Power Station Tour, at 10:00 a.m., hosted by Brad Rockwell, Kapaia Power Station Manager. The plant is located on the Island of Kauai, on the outskirts of Lihue. Visit the ASME-HI web site www.sections.asme.org/hawaii for more information and directions to the plant. If you plan to stay the weekend or overnight, suggested accommodations include the Kauai Sand Hotel where Kama'ainas can book the "Two Night Room and Car Package," or you can stay at the Aloha Beach Resort or Radisson Kauai Beach Resort for a good price with the KIUC corporate rate. Please contact Ed Chang at 543-4227 if you would like to attend and for details on the KIUC corporate rates.



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Past Pres	Horst Brandes	956-8969	956-5014
	<i>brandes@wiliki.eng.hawaii.edu</i>		

JOINT ASCE/SEAOH SEPTEMBER DINNER MEETING

Program: Steven Baldrige, P.E., S.E., Baldrige & Associates Structural Engineering, Inc.

INCORPORATING ANTI-TERRORISM / FORCE PROTECTION REQUIREMENTS INTO BUILDING DESIGN

"In light of current world developments, engineers are being required to increasingly consider Anti-Terrorism & Force Protection (ATFP) mitigation as a basic design criterion. To remain economically viable, this additional design requirement must typically be incorporated without substantial increases in the cost of the structural system. As with addressing natural hazards in the past, engineers must now use their creativity to find cost effective solutions that will make buildings more resilient to both natural and man-made hazards."

Date: **Thursday, September 16, 2004**

Location: Treetops at Paradise Park

Manoa Valley

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

6:30 p.m. - Dinner

7:30 p.m. - Program

9:00 p.m. - Adjourn

Menu: Multi-entree buffet

Cost: \$22.00 for Hawaii Section members

\$25.00 for non-section members and guests

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

Please make check payable to (ASCE-Hawaii Section.) Mail to Phillip Ooi, ASCE Treasurer, c/o Department of Civil & Environmental Engineering, University of Hawaii at Manoa, 2540 Dole Street, Holmes 383, Honolulu, Hawaii 96822, postmarked by Monday, September 13, 2004. Reservations for the dinner meeting to Phillip Ooi by Monday, September 13, 2004, by phone at 956-8512, fax at 956-5014, or email at *ooi@wiliki.eng.hawaii.edu*.

EXECUTIVE COMMITTEE MEETING

August 5, 2004

CALL FOR NOMINATIONS FOR 2004 ASCE HAWAII SECTION OUTSTANDING CIVIL ENGINEERING ACHIEVEMENT AWARD

The ASCE Hawaii Section annually recognizes the exemplary civil engineering project as the Outstanding Civil Engineering Achievement (OCEA). This prestigious award recognizes the project that best illustrates superior civil engineering skills and represents a significant contribution to civil engineering

progress and society.

The 2004 ASCE Hawaii Section OCEA Award winner will be announced and the award presented to the project owner at the Hawaii Section Annual Banquet in October. OCEA Awards of Merit may also be awarded. The ASCE Hawaii Section OCEA Award winner will be nominated for the 2004 ASCE National OCEA Award to be presented next Spring.

Nominations for the 2004 ASCE Hawaii Section OCEA Award may be submitted by the individual firms or agencies involved in the project. The project must be located either in the State of Hawaii or in a location that is not under the jurisdiction of another ASCE Section. The level of project completion required to be eligible for the OCEA Award depends on the type of project.

Additional information on OCEA Award eligibility criteria, entry form, and other entry requirements may be downloaded from the ASCE Hawaii Section website at www.asce-hawaii.org. Deadline for nominations is Monday, September 13, 2004. Please submit six (6) copies of each nomination to Awards Committee Chair, Jon Young, of Belt Collins Hawaii, 2153 North King Street, Suite 200, Honolulu, HI 96819. If you have any questions, please e-mail Jon at *jyoung@beltcollins.com* or call him at 521-5361.

ASCE HAWAII SECTION AWARDS

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 Horst Brandes at 956-8969, or at *brandes@wiliki.eng.hawaii.edu*.

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)

- Board of Water Supply (Chief Capital Projects Officer - Honolulu)
- CH2MHILL (Water Engineer - Honolulu)
- Engineering Solutions, Inc. (Civil/ Environmental Engineers - Honolulu)
- Fewell Geotechnical Engineering (Geotechnical Engineer - Honolulu)
- Fukunaga & Associates (Civil and Civil/Environmental Engineers - Honolulu)
- Hawaii Pacific Engineers (Civil and Civil/Environmental Engineers - Honolulu)
- Warren S. Unemori Engineering (Project and Civil Engineers - Wailuku)
- Westaff (Maintenance Engineering - Hickam AFB, Hawaii)
- Winzler & Kelly Consulting Engineers (Civil and/or Structural Engineering - Guam)

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.

Membership Renewal

From this month's member data, ASCE has dropped any member not renewing their membership for fifteen (15) months. These mem-

(continued on page 8)

CITY JOBS

Civil Service Opportunities

ENERGY RECOVERY ENGINEER

Exam No. 056990

CONTINUOUS RECRUITMENT UNTIL NEEDS ARE MET

Monitors operation of large Waste-to-Energy facility in Campbell Industrial Park. Facility includes 60 MW size turbine/generator, two large broilers with a third under design/procurement, as well as the waste processing equipment used to manufacture the refuse derived fuel consumed. Job also encompasses monitoring environmental compliance issues, budget preparation, and audit of contractor invoices.

\$3,863 - \$5,410 per mo. (salary negotiable, incl. temporary shortage differential). Requires graduation from an accredited college or university with major work in mechanical, civil, sanitary, electrical, chemical or nuclear engineering and one year of registered or equivalent professional engineering experience in the planning, design, and/or operation of a large oil, coal, waste, or nuclear fueled power plant. State of Hawaii registration as a professional mechanical, civil, sanitary, electrical, structural, chemical or industrial engineer, prior to completion of probation. Applicants with a mainland license in any of the above specialties must obtain the Hawaii license prior to completion of probation. One vacancy with the Department of Environmental Services, Refuse Division.

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

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 Website:

General Membership Update

September 9th will be the next LGSEA chapter function: a four hour seminar on Mid Rise Load Bearing Cold Formed Steel Design beginning at 8am at Oahu Country Club. The featured speaker is Pat Ford, principal at Matsen-Ford Design, an engineering firm in Wisconsin. Mr. Ford has designed several buildings with this type of construction and has accepted the chapter's invitation to share his experiences with the local design community. This has been a very popular topic requested by our members, and we anticipate a strong turnout for the event. Lunch will be served immediately following the event - be sure not to miss this one! This event is free of charge to all chapter members, thanks to our co-sponsors Dietrich Metal Framing and G. W. Killebrew who helped defray the cost of the event. Since this great seminar is free for LGSEA members, please encourage others in your office to become LGSEA members to take advantage of this and other benefits of membership. Please contact any of our directors if you need information on how to sign up!

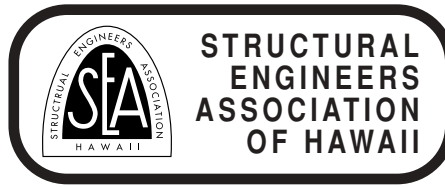
In other news, MetalCon 2004 will be held October 20-22 at the Las Vegas Convention Center. LGSEA will be having their 10th anniversary party at the conference. Please join us! Contact Howard Lau for more information.



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HIGHLIGHTS OF BOD MEETING

11 August 2004

Committee Reports:

Convention Committee: This year's convention was a success. The Board thanks Tom Tanimura for organizing the event. The Board also thanks all of the sponsors for their generous donations and support.

Previous Business:

Duke Bainum/Mufi Hanneman Forum: Randy Chu informed the Board that the forum has been cancelled because the candidates could not agree on the format of the forum.

Dues Increase: Discussion regarding membership dues increase was discussed again during the Board meeting. Again, there was general consensus among the Board members that membership dues should be increased to compensate for the increased dues to NCSEA membership, for the services of the administrative assistance, and to build up the "reserve" money. The Board unanimously agreed for an increase of \$10 in the membership dues. This would bring the current \$50 per year due amount to \$60 per year. The membership may vote on this issue on the upcoming 2005 SEAHO officer election ballot. Please notify a SEAHO Board member should you wish to comment on this issue.

Nominations for Next Year's Officers: The Board members will actively seek new people to voluntarily serve on the Board for the officer positions of Vice President, Secretary, Treasurer, and two (2) Directors. Please contact a Board member should you desire to nominate a potential candidate for any of the noted officer positions.

New Business:

Reference Library:

Randy Chu informed the Board that he spoke with Rupert Chun (Mutual Welding Co., Ltd.) regarding a structural steel reference library. Rupert offered to fund the structural steel reference library. Ibbotson Kellet offered a portion of his office space as a location for the structural steel reference library. Randy Chu will contact Rupert Chun to decide on what publications he feels should be initially acquired for the library.

New Member Applications:

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

- Marcello Sgambelluri, Marin & Chock, Inc., applied as a Member.
- Kainoa Aki, Structural Analysis Group, applied as an Allied member.

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

Web Notes:

SEAHO will provide a bulletin board on the website. The bulletin board will provide resumes and job opportunities listings. Check this out on the website in the near future.

2004 Calendar of Events:

Next BOD meeting: 01 September 2004, 4:30 p.m., at Shigemura, Lau, Sakanashi, Higuchi office.

September 16, 2004: Joint ASCE and SEAHO dinner meeting at Treetops Restaurant. Presentation of Blast Design/Force Protection by Steve Baldrige.

**STRUCTURAL SYSTEMS, INC.**

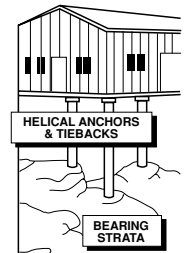
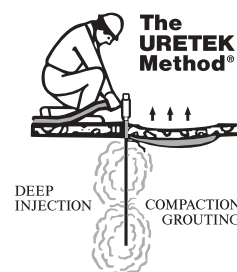
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Hawaii High School Teams Compete in National Underwater Robot Competition

Teams of students from Moanalua and Waipahu High Schools were invited to compete in the Marine Advanced Technology Education (MATE) Center's National ROV Competition held June 25-27th at the University of California at Santa Barbara. The Hawaii teams began their trip to the nationals by entering the Hawaii Underwater Robot Challenge (HURC) in December 2003, Waipahu finishing first in the Dolphin category and Moanalua second in Shark category. This resulted in an invitation to the Southern California Regional ROV Flyoff, held at Birch Aquarium at UC San Diego; first place Shark finisher Punahou School was also invited but was unable to attend due to a scheduling conflict.

In both HURC and the MATE competitions, each team attempts to complete a number of underwater tasks in a limited time with their robot. For HURC, the mission involved entering a "sunken ship", disarming a sequence of alarms, and securing a "toxic cargo". In the MATE competition, the teams had seven tasks to do during their 25 minute mission time: recover a lost sonar, find and tag a mussel bed and a tubeworm cluster, patch a "leaking tank", collect a particular species of "fish", recover a type of rock, and find the ship's bell inside a sunken "submarine".

The teams are scored not only on the basis of the performance with their robot in the pool, but also on an engineering report that the students submit before the competition, a poster and a presentation made by the students to the competition judges. Having the experience in these elements from participating in HURC made a difference to the Hawaii teams at the

San Diego regional, according to Waipahu teacher and advisor Bill Speed.

Waipahu and Moanalua finished first and second overall, beating all the California teams at San Diego, and earning the invitation to the National.

At the Nationals, 23 teams from high schools across North America met at UC Santa Barbara for three days of competition. One of the first few teams to compete, Waipahu had a strong performance in the water, completing six of the seven tasks, but running out of time before finding the submarine's bell. This resulted in a fifth place finish in the pool and sixth place overall. The Moanalua team had some ROV problems in the pool, but with good scores for report, poster and presentation, finished with 14th place overall. The judges were also impressed with Moanalua's safety consciousness, giving them the "Hard Hat" Safety Award. First place went to Cambridge Rindge and Latin School, a public school in Cambridge, Massachusetts, a few blocks away from MIT and Harvard; the team from Avalon East School Board and O'Donel High School in Newfoundland, Canada finished second.

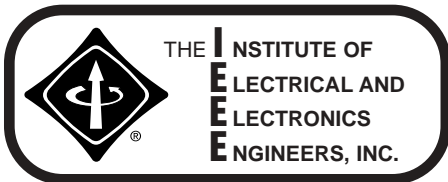
The Moanalua team was made up of students Aren Choy, Warren Garperio, George Huang, Kawika Kaukukukui, Kenneth Shum, and Lisa Tadeo together with teachers David Ishii and Randy Sakauye. Waipahu students Sheryll Baptista, Bryce Nagareda, Angelo Subia, Katrina Tolentino and Gibbson Tumaneng, together with teacher Bill Speed and mentor Mark Rognstad, made up the Waipahu team.

While this was the second time Waipahu has sent a team to the MATE nationals, the students who made up last year's team have all graduated.

So, for both the Waipahu and Moanalua students, this was their first experience with national competition. (It really should be called international, with teams from both the USA and Canada!) An excellent job for these rookie teams – hope to see you back even better next year!



Waipahu team captain Gibbson Tumaneng adds rock scoop to ROV manipulator.



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Waipahu students Cheryl Baptista, Bryce Nagareda, Katrina Tolentino, and Angelo Subia test their ROV before the competition.



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July Meeting Highlights

The July luncheon meeting was held on July 20, 2004 at office of Belt Collins in Honolulu. President Cathy Leong announced that the Hawaii Section Annual Meeting would be held on August 17th at Wisteria Restaurant and the featured speaker would be Abe Wong from FHWA. She also announced that at the District 6 Annual Meeting in Sacramento, the Hawaii Section won a Membership Award for the highest percentage gain in members, as well as the Fur-Lined Pot Award for its submissions to the Westernite.

The featured speaker was Thomas Quinn, Director of the Hawaii Center for Advanced Transportation Technologies (HCATT), who spoke about his organization and their past, current, and future projects. HCATT, established in 1993 as the Hawaii Electric Vehicle Demonstration Program, is currently federally funded through a partnership with the Advanced Alternative Power Technology Transformation Office (AAPTTO). Their objectives are to develop zero or low emission transportation technology along with the infrastructure to support it, create new business opportunities to attract new technology to Hawaii, and secure new sources of funding for their research. They are currently located in a facility on Cooke Street that is leased from HECO where they conduct environmental and life cycle testing, as well as, perform vehicle conversions. In 2001, Hyundai provided them with a number of electric vehicles with rapid charging capabilities for them to test. These vehicles were utilized by HECO, City and County of Honolulu, State of Hawaii, and on Hickam Air Force Base and recharged utilizing rapid charging stations located around Oahu that reduced a 6-8 hour charging time to approximately 10 minutes. Currently, many of these vehicles have been returned to Hyundai although a few are still in use for additional testing. Other past projects include an electric Waikiki trolley which is currently not in use and an electric bus which HECO still uses to transport its employees from their parking area to their office downtown. Current projects include the use of hybrid buses at the airport to support the WikiWiki system and in the City and County of Honolulu's bus fleet that may be used as part of the Bus Rapid Transit (BRT) system. In addition, they have been developing a 30' fuel cell bus that will be used at the Hickam Air Force Base. Future projects include a hydrogen refueling station for fuel cell vehicles, multi-vehicle charging stations, and a lithium battery powered van. More information regarding HCATT can be found at their website, www.htdc.org/hcatt.

September Meeting Announcement

The September Section meeting date, location, and guest speaker will be announced at a later date. Meeting notices are forthcoming.



Angelo Subia and Gibbson Tumaneng handle ROV tether during competition.



Gibbson Tumaneng, Bryce Nagareda, and Cheryl Baptista at the controls as ROV enters the "Mystery Reef".

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Stud Chap President	Ronald Malalis malalis@hawaii.edu	956-5808

Next YMF General Meeting

The next two YMF general meetings are scheduled for Tuesday, September 7, 6:00 p.m., at Murphy's Bar & Grill at 2 Merchant Street, 531-0422; and October 5, 6:00 p.m., at Ryan's Grill at Ward Center, 591-9132. 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.

YMF Hikes the Mau'umae Ridge Trail

By Morgan R. Branch

To those who attended the Mau'umae Ridge Trail hike sponsored by the Hawaii Section Younger Member Forum (YMF) on Saturday, July 11th – congratulations! You accomplished quite a feat! Our group of twelve younger members, Student Chapter members and friends met at the trail head at 7:30 AM and after Jeff Kalani handed out our survival kits of bento box lunches, we all began the 7 and _ hour journey single file through the woods...

As advertised, the scenery was, indeed, spectacular. As its namesake implies, the trail led right along the edge and along the way we had unimpeded views of Diamond Head, downtown and the Pacific beyond. About an hour into the hike we were rewarded with a view of Ka'au Crater and the waterfall in the upper Palolo Valley. The weather had been wet in the upper elevations, so the waterfall was strong and full. We stopped several times along the way to regroup, particularly as we climbed because the rainfall was quickly dis-

solving the trail into mud puddles and goo.

From time to time Molokai native Silas Collier and Hilo native Aaron Erickson, pointed out and shared their knowledge of the various flora along the trail. Some of us tasted strawberry guava (locally known as waiwi) for the first time. Someone must have picked the special Ohia Lehua flower on the way up the mountain that despite warnings that it would cause the rains fall, because the skies unleashed a heavy shower upon us as we were still hours from the summit. All of us decided it was no longer worthwhile to try and stay out of the mud and happily sloshed through the trail behind our friends.

Eventually, ah – the summit! Never mind that we couldn't actually see that we had made it to the summit because the views were socked in by rain clouds. Jeff promised the views were incredible. We all laughed that we should have taken group photos with the Windward side (white clouds) behind us and then with Honolulu behind us (white clouds) with our "ASCE Hawaii Section YMF!" sign proudly displayed. At this point we all pulled out our bento lunches, enjoyed lunch, felt really proud of ourselves for sticking with it to the top, and then began our descent back home.

Student Chapter Member Aaron Erickson introduced us to the art of "trail surfing" down the steep and muddy descents – a sport in which he demonstrated that he is a fearless champ. Even more impressive was how calm and cool Laura Smolinski remained after she suddenly slipped off the trail and discovered herself hanging on for dear life in the bushes on the cliff! Not to worry – Laura's alive and with us today. Phew! Congratulations to rookie hikers Kelie and Fei Fei Feng who, although never hiked ever before, completed this arduous 7.5-hour hike with a smile from beginning to end.

Thank you to all the determined hikers for participating in this, fun and beautiful YMF adventure!

ASCE Job Classified

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

KNOW YOUR ASCE HISTORY

by C.S. Papacostas

A 1900 order by the territorial Board of Health to control inter-island commerce in response to a plague epidemic on O'ahu that, because of carelessness, resulted in the Great Chinatown fire restricted the shipment of many commodities but permitted items "not liable to infection" from the port of Honolulu. Among them were lime, machinery, coal, bricks and portland cement, all vital to the economic health of the islands.

As I described last month, with only two minor exceptions prior to 1946, Hawai'i was totally dependent on imported portland cement. Following the closure of a temporary plant in Waianae in 1946 by Hawaiian Gas Products (Gaspro), industrialist Henry Kaiser's Permanent Cement Co. in California remained the chief supplier of the material to Hawai'i.

Responding to the effective monopoly, according to local papers, the President of Hawaiian Gas Products, Allan Renton, announced plans in May, 1951 to construct a plant at the old site using a \$4 million loan from the federal Reconstruction Finance Corp. obtained on the basis of national defense needs. The location was selected, the Star-Bulletin (S-B) said, "because of the pure calcium limestone and trachyte deposits there." Trachyte pumice has a very high content of silica.

It is interesting that the officers of the so named Hawaiian Cement Co. were all residents of Honolulu. In addition to Renton, they included E. I. Parker, E.E. Black, P.K. McLean, H.W.B. White and L.H. Bingham.

In what appears to be a drawn-out process, this initiative failed to obtain the necessary rezoning. A 1956 S-B story, for instance, indicates that the request by Gaspro Limited to rezone land from "rural protective" to "noxious industrial" was vehemently opposed by Waianae and Nanakuli residents. In February 1957, the Honolulu Advertiser (HA) ran a story having Reston promising that the plant would be "almost dust-free," but to no avail.

Amid statehood celebrations in 1959, a new Hawaiian Cement Corp. consortium consisting of Alexander & Baldwin, several Dillingham interests, Gaspro, Cyprus Mines Corp. of Los Angeles, and American Cement Corp., a leading producer of portland cement, announced plans for the construction, by 1961, of a cement manufacturing plant at, as the S-B put it, "Campbell Estate's fast growing industrial

(continued on page 9)



ASCE, (continued from page 4)

bers, who have not paid their 2003 dues, will no longer be included in our membership counts or on our membership data. This will greatly affect the standing of our Section, since standings are based on total membership. The total membership consists of new and retained members. If you have let your ASCE membership lapse and have not renewed, you may have been affected by this. 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 Joanna Seto at 522-7426 or e-mail her at jseto@ascehawaii.org.

ASCE History, (continued from page 8)

area at Barbers Point." According to an April 1959 S-B article, local raw materials were already successfully tested in the U.S. and in Europe. The president of the new company, Robert Fisher, was quoted to promise that the company would produce "the five standard types [of cement] recognized in the trade" as compared to the two (standard and high-early) imported by Kaiser. In addition, he announced that the company would provide needed education and training to local engineers, contractors and architects about the various uses of cement.

As an aside, I find the involvement of Cyprus Mines Corp., the multinational mining, timber, oil & gas, and freight company, of particular interest as I was born on the island of Cyprus where this company owned several copper mines.

Only two months later (June, 1959), the HA reported that Kaiser had acquired a "\$1.5 million Lualualei cement site...from Clarence C. T. Loo" and that he planned quarry operations and also production of cement by August 1, 1961, before Hawaiian Cement's planned opening at the near-by location. Another story in the same issue of the paper explained that the Honolulu supervisors (i.e., the city council) "went over the head" of the stalemated City Planning Commission and approved Kaiser's rezoning application from "rural" to "noxious."

Ironically, Hawaiian Cement's contractors (Hawaiian Dredging and Bechtel) used the competitor's imported cement for construction of their plant! At opening, the dry-process plant was rated at either 1.0 or 1.4 million barrels/day (depending on which report one accepts). Initially, the raw materials used included limestone, basalt and trachyte from Oahu, silica from Vietnam and gypsum from Mexico.

Kaiser himself attended the dedication ceremony of the Hawaiian Cement plant in mid-August 1960, as did Governor Quinn who echoed hopes heard for several years that the plant would contribute to self-sufficiency for Hawai'i. Truck driver Gilbert Matua was reported hauling the plant's first load of cement to another Hawaiian Dredging construction site.

Boasting cleanliness, good landscaping and dust control by electrostatic precipitators, the wet-process, 1.7 million barrel/year Permanente Cement plant opened a few days later (on August 20, 1960), ready to supply "Hawai'i, Guam and other Pacific areas."

Thus, market forces resulted in not one, but two major cement factories within a stone's throw away from each other, one at Barbers Point and the other in the Waianae district of the island of O'ahu! According to "The Minerals Yearbook" for 1960, only three other new cement plants opened that year in the U.S.

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>.

College of Engineering, (continued from page 1)

dents, faculty, and staff; and the heightened visibility of the College's successes.

The plan includes, among others, the implementation of an enrollment management system for the College; a proposed biomedical engineering program in the Department of Mechanical Engineering; the establishment of an accredited computer engineering program in the Department of Electrical Engineering; the development of distance learning courses in the Hawaii Center for Advanced Communications; and the development of a Civil Engineering Research Park for the State and the Department of Civil and Environmental Engineering.

As you can see, it has been an exciting year at the College of Engineering. With the increases in enrollment, addition of new faculty, continued efforts of the faculty to bring in new research projects, and the development of new student programs and research facilities, the College looks to continue its success.



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