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-Chi 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 Macchiarelo 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 implementing PTL logic families; Mechanical Engineering 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 spinoff 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)
2004-2005 EAAUH Scholarships

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

Rodney Yama, Kapa’a High School (CE)
Kyle Kyionaga, Aiea High School (CE)
Orlando Layugan, Farrington High School (EE)
Tyson Kikugawa, Millilani 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

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!
HAWAII SECTION GENERAL MEETING

Date: Saturday, September 25, 2004
Time: 5:30 p.m. to 7:00 p.m.
Place: Restaurant location on Kauai To Be Announced.

Program: Planning for the 125th Anniversary of ASME

HAWAII SECTION MEETING ON KAUAI

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 spot 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.com.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, use the page, and set your preferences for your home page. It only takes a few minutes, 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.

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 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.

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 DEMOPOLU-LOS 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.
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.ascehawaii.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 Brandy at 956-8969, or at brandes@wilki.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)
- CH2M HILL (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. Umemori Engineering (Project and Civil Engineers - Wailuku)
- Westaff (Maintenance Engineering - Hickam AFB, Hawaii)
- Winkler & 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@atatahawaii.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 members dropped any member not renewing their membership for fifteen (15) months. These members...
HAWAII CHAPTER
P.O. Box 508, Aiea, Hawaii 96701
Phone: (808) 485-1400 Fax: (808) 485-1500
Web Page: www.lgsea.com

OFFICERS & DIRECTORS

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
<th>Phone</th>
<th>Fax</th>
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<tr>
<td>President</td>
<td>Mike Kasamoto</td>
<td>955-6834</td>
<td>955-2483</td>
</tr>
<tr>
<td>Vice President</td>
<td>Jeff Hanyu</td>
<td>536-2108</td>
<td>521-3000</td>
</tr>
<tr>
<td>Secretary</td>
<td>Will Wong</td>
<td>945-0196</td>
<td>944-1177</td>
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<tr>
<td>Treasurer</td>
<td>Bennett Funk</td>
<td>531-1308</td>
<td>521-7348</td>
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<tr>
<td>Director</td>
<td>Rolando Agbaso</td>
<td>626-3621</td>
<td>626-3660</td>
</tr>
<tr>
<td>Director</td>
<td>Glenn Ishio</td>
<td>533-2210</td>
<td>533-2686</td>
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<tr>
<td>Director</td>
<td>Howard Lau</td>
<td>942-9100</td>
<td>942-1899</td>
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<tr>
<td>Director</td>
<td>Darin Okuda</td>
<td>689-5400</td>
<td>689-5406</td>
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<tr>
<td>Director</td>
<td>Brent Uechi</td>
<td>521-6958</td>
<td>533-6701</td>
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<tr>
<td>Director</td>
<td>Akira Usami</td>
<td>682-5747</td>
<td>682-2928</td>
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2004 COMMITTEE CHAIRS

Program:  Jeff Hanyu
Technical:  Brent Uechi
Membership:  Darin Okuda
Sponsorship:  Glenn Ishio
Directed R&D:  Jim Walfish
Specifications:  Brent Uechi
Website:  www.lgsea.com

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 6 p.m. at Oahu Country Club. The featured speaker is Pat Ford, principal at Matsen-Ford Design, an engineering firm in Wisconsin. Dr. 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 attendance. Randy Chu informed the Board that the forum has been cancelled because the candidates could not agree on the format of the forum.

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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 increased was discussed during the Board meeting. Again, there was general consensus among the Board members that membership dues should be increased to compensate for the increased due 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 SEAOH officer election ballot. Please notify a SEAOH 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 offices 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:

PO BOX 3348, HONOLULU, HI 96801
Web Page URL http://www.seaoh.org

OFFICERS & DIRECTORS

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<tr>
<th>Position</th>
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<tr>
<td>President</td>
<td>Randy Chu</td>
<td>942-9100</td>
<td>942-1899</td>
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<td>Vice President</td>
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<td>597-8569</td>
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<tr>
<td>Secretary</td>
<td>Shawn Matsunoto</td>
<td>533-2210</td>
<td>533-2686</td>
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<tr>
<td>Treasurer</td>
<td>Jonathan Murai</td>
<td>533-2210</td>
<td>533-2686</td>
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<tr>
<td>Director</td>
<td>Ibbotson Kellet</td>
<td>540-1030</td>
<td>526-1989</td>
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<tr>
<td>Director</td>
<td>Les Nagata</td>
<td>951-5916</td>
<td>941-6489</td>
</tr>
<tr>
<td>Director</td>
<td>Wayne Kawano</td>
<td>848-7100</td>
<td>848-2626</td>
</tr>
<tr>
<td>Director</td>
<td>Dean Doi</td>
<td>955-4441</td>
<td>924-2027</td>
</tr>
<tr>
<td>Past Pres</td>
<td>Tom Tanimura</td>
<td>536-7692</td>
<td>537-9022</td>
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HIGHLIGHTS OF BOD MEETING

11 August 2004

Committee Reports:

Constitution 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:

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New Business:

Reference Library:
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!
2003-2004 OFFICERS
Office Name Phone Fax
President Cathy Leong 946-2277 946-2253
Vice Pres Susan Uejo 521-5361 521-2501
Secretary Pierson Koike 527-6989 521-2501
Treasurer Fred Smoot 841-7617 833-6125
Past Pres Richelle Suzuki 541-2530 541-2700

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.
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 dissolving 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 near the cliff! Not to worry – Laura’s alive and with us today. Phew! Congratulations to rookie hikers Keirs and Fei Fei Feng who, although never hiked 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
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. 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.