

## 2005 ASME FRANCIS R. MONTGOMERY DESIGN COMPETITION Results of annual Mechanical Engineering Department, UHM, DESIGN COMPETITION

The Human Powered Vehicle (HPV) project was the winner of the 2005 ASME Francis Rhodes Montgomery Design Competition (FRMDC) at Kuykendall Hall, University of Hawaii at Manoa (UHM), on May 6, 2005. In second was the Mini Baja project. This annual event is co-sponsored by the Department of Mechanical Engineering (DME), UHM, and the Francis R. Montgomery Foundation (FRM).

Since 1988, the student project teams of the DME ME 482 Senior Design Course compete before a panel of practicing mechanical engineer judges in an oral project presentation judged on the basis of technical content, originality of concept and resolution of design problems, and effectiveness of the prototype. Besides helping to recognize and reward innovative design efforts and the practicality of the design, the competition encourages the students to practice communicational skills to develop the ability to present the design in a clear and understandable manner later in their professional careers.

As described by one competition observer, all presentations were on a pretty high level with each team member speaking on the area of his or her project expertise. Listening to the student participants it became apparent that most realized the value in this design course and the competitions with the "lessons learned" from the snowball effect of a minor change to the dealing with tradeoffs in design features.

Under the guidance of Professors Mehrdad Ghasemi Nejhad and Ronald H. Knapp, students developed their HPV and Mini Baja projects from concept to prototype to finished product. The following are brief descriptions of the design projects.

### Human Powered Vehicle

The first place project team members were team captain Blake Sato, Jason Baguio, Armand Baclig, Michael Jose, Jasen Kaya, Chris Kinoshita, Ryan Lyum, C.J. Mun, Naomi Ogawa, and Clifton Yasutomi. They received the FRM \$800 first prize to share. Dr. Mehrdad Ghasemi Nejhad was their Faculty Advisor and the ME 481/482 Instructor.

The HPV project was created for competing in the annual American Society of Mechanical Engineers (ASME) Human Powered Vehicle Challenge (HPVC). The purpose of the HPVC is to address all areas of engineering problem solving, while incorporating elegance and ingenuity into the design. The DME ME 482 team designed and built a lightweight aerodynamic land vehicle and competed in the com-

petition in Fresno, CA on April 29 – May 1, 2005.

The competition is judged on three categories with a total of 100 points. The first category, design competition, with 40 points, consists of a technical report in which the design, analysis, manufacturing, and testing are presented. The second category, sprint competition, with 30 points, demonstrates the advantages of the HPV's aerodynamic fairing as well as its efficiency to achieve high speeds. The final category, endurance race, with 30 points, demonstrates the robustness of the vehicle as well as the rider's skill and stamina.

The HPV team strived to produce an ultra lightweight frame and a fairing with an optimal balance between aerodynamics and weight. They used several design analysis computer programs including AutoDesk Inventor for the frame and fairing, ANSYS Finite Element Analysis to determine the amount of carbon/epoxy composite layers required to provide the optimal combination of strength and lightness for the frame, STAR-CD Finite Volume Analysis and ANSYS FLOTRAN Finite Element Analysis for computational fluid dynamic (CFD) to optimize and computationally test fairing drag.

### Mini Baja

The second place team project members were team captain David Katsuda, Michael Bicoy, Robin Ferguson, Glenda Grande, Zensho Heshiki, Scott Lee, Ryan Meyer, Kevin Ohira, and Jesmond Toilolo. They received the FRM \$400 second prize to share. Dr. Ronald

Knapp was their Faculty Advisor.

The Mini Baja project was created to compete in the 2005 Mini Baja competition held June 1-4, 2005 at the Caterpillar Training Grounds in Tinaja Hills, Arizona. This competition is an intercollegiate engineering design competition for undergraduate and graduate students. The objective of the competition is to simulate real-world engineering design projects and their related challenges. Each team competes to have its design of all-terrain vehicle accepted for manufacture by a fictitious firm. The students must function as a team to design, analyze, build, test, and promote a vehicle and compete within the limits of the rules.

This will mark the third time competing since the first UH prototype was designed in 2002. Significant design improvements have been made to make a lighter, more robust vehicle than previous years. These improvements include increasing the outer diameter and decreasing the thickness of the frame tubing and using a posi-traction transaxle.

The Mini Baja competition has been organized by the Society of Automotive Engineers for the past 30 years and sponsored by Briggs and Stratton by providing the 10 horsepower four-stroke internal combustion engine used to power each Mini Baja vehicle.

### Acknowledgements

The FRMDC was established in 1987 in

*(continued on page 9)*



**Mrs. Margaret Montgomery with the HPV Team.**



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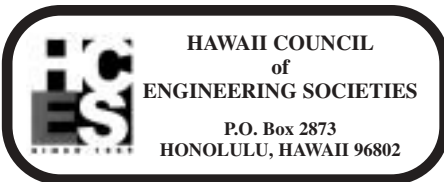
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**ASME MEMBERS SERVE ON INDUSTRY ADVISORY BOARD (IAB)**

ASME Hawaii section members Derick Kam, Rodney Krienke, Ed Chang and Raymond Liu attended the Fourth Industry Advisory Board (IAB) meeting on May 7, 2005 at the University of Hawaii at Manoa. Other IAB members include Mr. Dan Momohara from the Pacific Missile Range Facility on Kauai.

As an integral part of the Accreditation Board for Engineering & Technology (ABET) certification process, the IAB members serve as evaluators of the mechanical engineering program providing valuable feedback on the quality of the program in preparing future mechanical engineers for industry. Since the last IAB meeting held in 2003, the mechanical engineering program at the University of Hawaii had substantially improved in the quality of the program which resulted in a 6-year accreditation – a major accomplishment for the college of engineering!

This whole day event started with refreshments and the opportunity of the IAB members to meet the new professors and discuss the accomplishments of the program. This was followed by the formal kickoff of the morning session in room POST 214 with introductions by Dean of the College of Engineering, Dr. W. F. Chen and Department of Mechanical Engineering (DME) Chair, Dr. Bruce Liebert.

Dr. Chen emphasized the importance of the UH College of Engineering as the only accredited university in the state and the need to produce future engineers to serve in our vibrant and robust economy. Because of the increased military presence in the islands, Dr. Chen even suggested that UH serves a critical

national defense role in producing civilian engineers to fill vacancies at Pearl Harbor Naval Shipyard.

Dr. Chen's presentation was followed by a brief overview of the DME program and the importance of IAB members to the program. The major event of the morning session included presentations by the new faculty on their research interests and presentations on the Mini Baja and HPV by David Katsuda and Blake Sato, respectively.

Following a delicious lunch, the afternoon session included impressive tours of the manufacturing and testing facilities and laboratory modules hosted by the senior as well as new faculty members. The manufacturing & testing facilities, along with the laboratory modules, allow the students to test materials to failure and correlate theory with practical applications. The laboratory modules demonstrate applications in flow metering and measurement, heat conduction, pump applications, refrigeration and thermal conduction. This represents the significant improvement in the program along with the quality instruction by new faculty members.

Lastly, the afternoon sessions involved meeting with the Student Advisory Board (SAB) members to discuss their concerns about the program and to solicit feedback on improvements. In general, the SAB felt the program prepares them for the challenges of the industry workforce. Subsequently, the IAB report back to the DME faculty was positive with minor recommendations on extended hours in the computer lab and continued membership in professional affiliations such as ASME and ASHRAE.

**2005 MATHCOUNTS NATIONAL COMPETITION RESULTS**

On May 6, 2005, 228 middle school students from 50 states, the District of Columbia, Puerto Rico, Guam, U.S. Virgin Islands, the Northern Mariana Islands, and the Department of Defense and State Department schools competed in the prestigious MATHCOUNTS National Competition in Detroit, Michigan. Hawaii's Timothy Meyer of Kaimuki Middle School placed 55 in the Individual Rankings. The Hawaii team with Timothy Meyer and Dong-Yeop Shin of Kaimuki Middle School, Lianne Ho of Iolani, and Kent Kobayashi of Punahou was not able to break into the top 25 in the Team Rankings.

Neal Wu, a 7th-grader from Louisiana was the top ranked individual. Wu answered the following challenging math problem in less than 45 seconds to win the MATHCOUNTS National Championship title.

*A volleyball coach has three setters and eight other players on her team. Without assigning any of the positions, in how many ways can she choose six starters if exactly one of the three setter is selected as a starter? Answer: 168 ways*

Second was Mark Zhang of the Texas team. In the team competition, Texas captured the National Team Championship title. Second was Indiana and third California.

As National Champion, Wu won the \$8,000 Donald G. Weinert Scholarship, a trip to the U.S. Space Camp, and a notebook computer. The second place Zhang won a \$6,000 scholarship. Each team member from first-place Texas won a \$2,000 scholarship, trips to the U.S. Space Camp, and a notebook computer.

Wu's coach, Claudia Allums, received a notebook computer. Most of the scholarships and notebook computers were courtesy of the General Motors Foundation and the Motorola Foundation.

General Motors, a MATHCOUNTS National Sponsor, hosted the competition at the GM Headquarters and Detroit Marriott at the Renaissance Center. "It is an honor for General Motors to bring together some of the brightest children in the country to our headquarters for the 2005 MATHCOUNTS National Competition," said Lawrence D. Burns, MATHCOUNTS honorary chair and GM vice president of Research & Development and Planning. "This is an educational program which GM has proudly supported for almost twenty years. MATHCOUNTS challenges the minds of young people who are the workforce of tomorrow and encourages them to achieve. The students competing in this competition set a great example for their peers with all their hard work, dedication and enthusiasm."

"General Motors hosted the event in Detroit and so the students were able to see their corporate offices which house 8,000 staff and their plants and testing centers." Said Rowena Blaisdell, Hawaii MATHCOUNTS Steering Committee Chairperson. "It was a different experience for the students." This was certainly a change from the Nation's Capital scene.

For full coverage of the National results, please visit [www.mathcounts.org](http://www.mathcounts.org). ESPN2 will broadcast an hour-long program on the 2005 MATHCOUNTS National Competition at noon ET on Friday, June 3 and 6 pm ET on Tuesday, June 7.



[www.sfpehawaii.org](http://www.sfpehawaii.org)

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#### HAWAII SFPE SEMINAR PRESENTATION INTRODUCTION TO STRUCTURAL FIRE PROTECTION

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 one day seminar. This is the first time this seminar has been offered in Hawaii.

Date & Time: Friday August 5, 2005 7:30 AM - 5:00 PM

Location: Fort Shafter Golf Clubhouse (Hale Ikena)

Cost: \$225 (\$150 for SFPE members & Chapter Friends and SEAHO members)

Deadline: The registration deadline is Friday, July 29, 2005

Who should attend: Fire Protection Engineers, Structural Engineers, Architects. This seminar provides an overview of the rules and guidelines that can be used to assess the fire resistance of building assemblies composed of steel, concrete, masonry and wood. In addition, the seminar outlines methods of performance-based analyses to determine the fire resistance of exposed structural assemblies.

These include methods to estimate the temperature of steel members exposed to fire, and to calculate the structural response of concrete slabs and steel columns. The availability of computer-based methods to conduct performance-base analysis will be discussed. This seminar is valuable to code officials, architects and engineers who need to assess or understand assessments of the fire resistance of buildings assemblies.

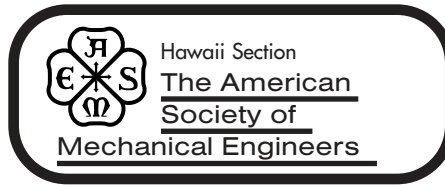
For information to register contact: Sam Dannaway, Program Chairman Hawaii Chapter SFPE Tel (808) 526-9019/ Fax (808) 537-5385.

E-mail: [seminars@sfpehawaii.org](mailto:seminars@sfpehawaii.org)  
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[www.sfpehawaii.org](http://www.sfpehawaii.org)

#### IBC ADOPTION

The Honolulu Building Department has begun the process of reviewing the 2003 edition of the International Building Code for possible adoption as the Honolulu Building Code. Please go to [www.sfpehawaii.org](http://www.sfpehawaii.org) to see a copy of the current draft of Amendments to the IBC for adoption as the Honolulu Building Code.



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

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#### HAWAII SECTION GENERAL MEETING

Date: Tuesday, June 14, 2005

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

Place: Hawaiian Electric Company, Inc.  
Ward Avenue Cafeteria

Program: Continue planning section activities for the rest of the year. 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.

#### ANNUAL PEARL HARBOR BOAT TOUR

ASME-HI Past Chairman Stanford Yuen again this year invites ASME-HI members, their families and friends to the annual Pearl Harbor Boat Tour on Thursday, August 11, 2005, starting at 4:00 p.m. For more information about the boat tour, please visit [www.sections.asme.org/hawaii/pearltour05.htm](http://www.sections.asme.org/hawaii/pearltour05.htm). There is no charge for this hour and a half tour. If you would like to attend, please contact Ed Chang at 543-4227 or email him at [edmund.chang@heco.com](mailto:edmund.chang@heco.com).

#### TOUR OF THE HONOLULU ADVERTISER PUBLISHING PLANT IN KAPOLEI

Unfortunately, Mechanical Engineers are always too busy with work and this tour was held in the middle of a workday. However, we were able to get nine together to tour the new State-of-the-Art Honolulu Advertiser Kapolei Plant, and these lucky nine certainly felt extremely fortunate to be able to have taken this tour after it was done.

Our tour guide, Jennifer Dang, showed us just about every inch of the plant from the production department where digital pages are received, checked and negatives and plates created, to the press room where the 7 level Man Roland press operates, and finally to the packaging and assembly room where the buffering system, inserting machines, and cart loaders operate. Dang explained just about everything about the newspaper you read daily. Now when we read

the Honolulu Advertiser we can picture in our minds what goes into producing each section and page. This tour is one that you should take.

#### THE FINAL ASME REGION IX RAC

The flight to LA was not too bad, as anticipated. This was to be one of those crazy, short weekend trips, leave Friday and return Sunday. I watched the videos and in no time we were landing. It was late and after riding on the wrong hotel shuttle, I finally got to the Hilton Los Angeles Airport Hotel.

The "Last RAC," Region IX Regional Administrative Conference, was held on Saturday, April 16, 2005. Much of the RAC was on the reorganization of ASME. Speakers included ASME Past-President Dr. Reginald Vachon and Board of Governor Dr. Sam Zamrik. Region IX Vice-President Lynden Davis conducted the meeting. According to the latest thinking, Region IX will be combined with neighboring regions into a "District," starting July 2005.

After lunch, past Region IX Vice-Presidents reflected back to when they were in office. That evening during the awards presentation, Jay Higashi and Ed Chang were surprised when the Hawaii Section was awarded the Frank W. Von Flue Region IX Outstanding Section. This award is made to the best performing section in Region IX.

This was a very rewarding "Last RAC," meeting new and old friends, and of course, learning about the future of our Hawaii Section. For more "Last RAC" happenings, please visit [www.sections.asme.org/hawaii/racber.html](http://www.sections.asme.org/hawaii/racber.html).

(continued on page 9)



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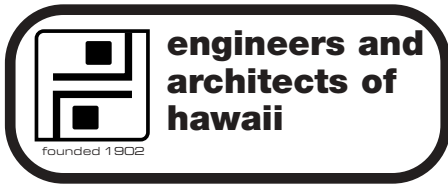
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**EAH June Program:  
 June Program Chair Lee Mansfield**

**June Meetings**

- June 3rd**, Speaker: TBA See EAH WEB page
- June 10th** No Meeting Holiday - Kamehameha Day
- June 17th** Speaker: TBA See EAH WEB page
- June 24th** Speaker: TBA See EAH WEB page

**Annual Meeting**

EAH Officer Nominations are open. Current Nominations are:  
 President: Gary Yamamoto, Civil Engineer at Earth Tech  
 1st VP: Ron Boyle, Civil Engineer at Earth Tech  
 2nd VP: Open  
 Treasurer: Ralph Dobson, Retired Hawaiian Electric

Secretary: Sam Gillie, Mechanical Engineer at Hawaiian Electric

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

Members-\$7.50 Guests-\$8.50

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

**Meeting Notes for April 8th, 2005**

**SPEAKER:** Kit Beuret, House Inspector  
**SUBJECT:** "Getting Your House Inspected" Kit Beuret presented a very good informative overview on why, how, and who should inspect a house that you would like to purchase. In the current seller's market buyers usually are willing to buy houses "AS-IS". However it is better to know what problems currently exist rather than to discover the problems after the purchase is complete. Kit explained that usually only about 1 person in 50 will decide not to buy a house based on the results of a house inspection. Most good home inspectors have a check list of over 50 areas and items that are inspected. They do not inspect for termites. That is done by the termite inspector. There is no State certification for house inspector; however there are national associations that certify home inspectors. To get a certificate and insurance an inspector has to have inspected at least 100 houses. Kit has discovered some real problems such as the home that had no sewer connection. Kit, a former electrical engineer also presented his top ten list of how you can tell someone is an engineer.

**Meeting Notes for April 15th, 2005:**

**SPEAKER:** August Ahlf, EAH Emeritus Member  
**SUBJECT:** "Early Development in Iraq in 1950's" August Ahlf talked about how he found his way to work on the water systems in Iraq in the 1950's and was there during the revolution. His 50 year old color slides were excellent in showing the condition in Iraq at that time.

**Meeting Notes for April 22nd, 2005:**

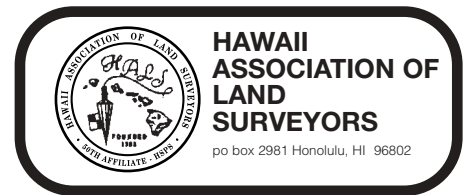
**SPEAKER:** John Quinn, Consul General of Australia  
**SUBJECT:** "Australian -American Relations" Mr. Quinn gave an excellent update on current diplomatic relations between the US and Australia. He recently visited Iraq with the Australian Prime and saw first hand the massive amount of infrastructure improvements that will be required to rebuild that nation. Saddam Hussein, who built palaces for himself let the basic infrastructure of Iraq rot. Though he built palaces for himself much of the construction were facades to look good. An example was plastic chandeliers.

**Meeting Notes for April 29th**

**Speaker:** Alan Lloyd, EAH Emeritus Member, Retired

Hawaiian Electric Co.

Subject: "Norfolk Island" Alan again gave one of his insightful presentations on his visits to Norfolk Island. He also explained how Norfolk Island's water system has ties to Hawaii water systems. Sound Recordings of these meeting are posted to the EAH WEB Site.



[http://www.eng.hawaii.edu/~hals/hals\\_001.htm](http://www.eng.hawaii.edu/~hals/hals_001.htm)

**2005 HALS BOARD**

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- NSPS Gov. - Pat Cummins

Membership: 66 regular (from 2004); 5 sustaining (from 2004); 145 regular current for 2005; 16 sustaining current for 2005; 2 honorary; 5 life; 42 governors

**Schedule of meetings:**

- Thursday June 9, 2005 (General)
- Thursday July 14, 2005
- Thursday August 11, 2005 (September Dinner Meeting)
- Thursday October 13, 2005
- Thursday November 10, 2005
- Thursday December 8, 2005 (General)
- Thursday January 12, 2006

**Future Workshops & Conferences:**

Two workshops by Felicia Provencal are being planned for this fall. One will be held on Maui, where Felicia resides and another to be held on the big island.

The Annual Surveying Conference will be on February 2-3, 2006 at the RADISSON WAIKIKI PRINCE KUHIO (formerly the Outrigger Prince Kuhio Hotel), 2500 Kuhio Ave., Honolulu, Hawaii 96815. In conjunction with our Surveying Conference "Vendors Day" will be on February 1, 2006 Information on our Conference and Vendors Day will be constantly updated on our 2006 Surveying Conference Update Page.



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**Congratulations to the Spring 2005 College of Engineering graduates!**

**2005 EAAUH Golf Tournament:** Planning for the golf tournament is underway. If you would like to help, please contact Matt Fujioka ([mkf@akinaka.com](mailto:mkf@akinaka.com)) or Stacie Kaneshiro ([Stacie.Kaneshiro@hickam.af.mil](mailto:Stacie.Kaneshiro@hickam.af.mil)) for more information.

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# 2004

## Concrete Achievement Awards



### NEW CONCRETE PAVING AWARD CATEGORY A

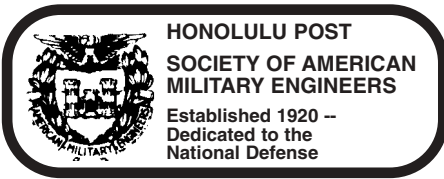
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**ENGINEER** ..... KAI HAWAII, INC.

**GENERAL/PAVING  
CONTRACTOR** ..... HAWAIIAN DREDGING CONSTRUCTION COMPANY

This project is located within Matson's Maui operations. The pier deck was poured on cast-in-place concrete beams and precast concrete planks. The thickness of the deck ranged from 5" to 18". The specified finish for this heavy-lift pier deck was a broom finish. A corrosion-inhibiting admixture was specified, along with the water to cement ratio. A high-range water-reducing admixture was added to ensure a more workable and flowable pump mix, which resulted in quicker placing and easier finishing of the concrete.



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*James.Cho@navy.mil* 221-2052

**KUKINI SCHOLARSHIP GOLF TOURNAMENT**

The Honolulu Post of the Society of American Military Engineers (SAME) raised more than \$16,500 for engineering scholarships at its annual golf tournament on 10 May 2005 at Hickam's Mamala Bay Golf Course. The Honolulu Post awarded four \$2,500 scholarships this week to local students pursuing their education in engineering and/or architecture. Two awardees reside right here on Hickam AFB: Mr. Nathaniel Bridges and Ms. Diana Funk.

In recent years SAME has awarded thousands of dollars in scholarships to deserving individuals; the Honolulu post's scholarship program is currently ranked as the fifth largest for the world-wide organization. Lieutenant Commander Dusty Hammacher, SAME Scholarship Chair, commented that due to the generosity of the 135 golfers who participated in the tournament and 21 corporate sponsors, even more scholarships will be available next year. No military affiliation is required to apply for a scholarship and those interested in applying in 2006 can find more information on the organization's home page, <http://www.same.org/honolulu>.

SAME is a national non-profit professional engineering association with a charter to bring together professional engineers and those in engineering-related fields, improve and increase the engineering capabilities of the nation, and exchange and advance the knowledge of engineering technologies, applications, and practices. All military Services and many private sector engineering firms are represented within SAME's ranks.

**SAME SCHOLARSHIP AWARDEES**

The Society of American Military Engineers (SAME), Honolulu Post awarded four (4) \$2,500 scholarships this year to local students pursuing their education in engineering and/or architecture. The winners are:

- Mr. Michael Ching - Senior, Mililani HS
- Ms. Danika Globokar - Senior, Castle HS
- Mr. Nathaniel Bridges - Senior, Moanalua HS
- Ms. Diana Funk - Brigham Young University, Civil Engineering Program

These young men and women were selected based upon a variety of criteria; academic, extra-curricular, and a written essay on the importance of engineering to society. Most importantly, these individuals exhibited a deep love for math, science, and related fields.

**Honolulu Post SAME Senior Fellows and Young Members (YM) Leadership Development Forum**

The Society of American Military Engineers (SAME) sponsored a Senior Fellows and Young Members Leadership Development Forum at the University of Hawaii School of Engineering on 5 May. The lead panelist was Colonel Timothy Byers, The Civil Engineer for Headquarters Pacific Air Forces at Hickam AFB. He was joined by BG Paul Chinen, USA retired, Vice President of Earth Tech's Pacific Region Office, and Ms. Morgan Branch from AMEC Earth and Environmental. Major Yvonne Spencer (SAME Honolulu Post YM Director) served as the moderator. The audience included 36 young engineers representing the Air Force, Navy, Army and University of Hawaii, College of Engineering. The forum provided senior leaders an opportunity to share their knowledge, experiences, and expertise and assist aspiring engineers with their career decisions. The audience was receptive and suggested that S.A.M.E. continue to provide similar events that encourage mentorship and leadership at all levels.



**Panel members Ms. Morgan Branch, Colonel Timothy Byers, BG Paul Chinen, USA retired.**

**SAME State Science Engineering Fair**

**48th Hawaii State Science and Engineering Fair**

On Wednesday, April 6, 2005, the Honolulu Post of the Society of American Military Engineers (S.A.M.E.) presented a \$500 savings bond to Miss Ayla Bicoy. She is a ninth grader from Molokai High School. Miss Bicoy took 1st Place in the Senior Engineering Division at the 48th Hawaii State Science and Engineering Fair at the Neal Blaisdell Center. Her project was entitled, "Huff Puff, Blow Your House Down: The Effects of Building Shape on Airflow". She was the only 9th grader out of 14 sophomores, juniors and seniors that entered. We expect great things from this burgeoning engineer.



**Mr. Dana Voight (right), SAME Golf Tournament Coordinator, presents the SAME Honolulu Post President, Colonel Steven Hoarn, with a check for \$16,512 representing the net proceeds from the day's events. The money will be used to fund college scholarships for engineering students in 2006.**



**Major Yvonne Spencer presents Miss Ayla Bicoy with a ceremonial check for her winning science fair exhibit.**



**Colonel Steve Hoarn presents a \$2,500 scholarship to Diana Funk. Ms. Funk, a Civil Engineering major at Brigham Young University, was selected to receive one of four SAME scholarships this year.**



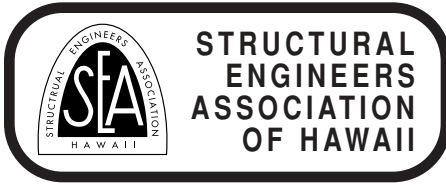
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#### Committee Reports:

Membership Committee: Lawrence Wolf, Sato & Associates, Inc., and Brian Lott, Consulting Structural Hawaii, Inc., have submitted applications for membership as Allied Members. Comments on the applications from the general membership are being solicited and shall be submitted to the Board of

Directors before June 01, 2005.

2006 SEAHO Convention Committee: Proposed technical visits during the 2006 SEAHO Convention, scheduled to be held in Osaka, Japan in November 2006, include the Akashi Kaikyo Bridge and Awaji Island Museum, seismically retrofitted buildings and structures in Kobe and Kyoto's famed wooden structures constructed without nails.

#### New Business:

City & County of Honolulu International Building Code (IBC) Adoption – Wind and Seismic Provisions: The City & County of Honolulu has asked SEAHO to review and to submit its recommendations related to the 2003 IBC by the end of June 2005. Issues of particular interest, as previously expressed by the membership, include the complexity of the wind design provisions, special seismic detailing, seismic design categories, site specific soils analyses and the time required to complete designs utilizing the new IBC code. In addition, Mr. Gary Chock, Building Codes Committee Chairperson, is scheduled to submit the results of a wind study he has performed to the City & County of Honolulu, in ordinance form, by mid-May 2005. Mr. Chock will present proposed amendments to the IBC 2003 Building Code to the Board in early June 2005. The Board will then determine if an ad hoc committee is needed to review the proposed amendments and to make recommendations for adoption of the Code.

SEAHO Young Member Forum: SEAHO is forming a Young Member Forum for SEAHO Members 35 years of age and younger (age standard in accordance with American Council of Engineering Companies of Hawaii (ACECH) Young Engineer of the Year criteria) to serve as a resource and fellowship venue for young engineers and engineering students. The kick-off event (dinner and drinks) will be held on June 16, 2005, 6 p.m., at Sam Choy's Breakfast, Lunch & Crab (580 N. Nimitz Highway, Honolulu). Information regarding the Young Member Forum and the kick-off event will be e-mailed to all SEAHO members shortly. Possible projects are to perform a joint service project with the American Society of Civil Engineers (ASCE) Young Member Forum and to prepare a SEAHO display for the annual Engineer's Week events in February 2006.

Dr. Arthur N. L. Chiu Scholarship Endowment Fund (College of Engineering, University of Hawai'i): A scholarship endowment fund in the name of University of Hawai'i Department of Civil and Environmental Engineering Professor Emeritus Dr. Arthur N. L. Chiu has been established by Mr. Bob Akinaka, Akinaka & Associates, Ltd., and Mr. Ed Hirata, Director of the Department of

Transportation Services, City & County of Honolulu. The SEAHO Scholarship Committee, Chairperson Mr. Rodney Yamamoto, will be asked to lead SEAHO's support of the Endowment's fundraising campaign. More information on the Endowment Fund can be found in the Wiliki and soon on the SEAHO website ([www.seaoh.org](http://www.seaoh.org)).

Western Council Structural Engineers Association (WCSEA) Conference: Following discussion, the Board decided that SEAHO will not be sending a representative to the 2005 WCSEA Conference in Arizona since it is not cost effective to send a representative for a two (2) hour meeting.

Golf Tournament: SEAHO's upcoming golf tournament will be held at Waialeale Golf Club (94-200 Paioa Place, Waipahu) on August 05, 2005; first start time at 11:38 a.m. (5 front, 5 back). Green fees are \$40 general, \$35 for seniors.

S. K. Ghosh Concrete Design Seminar: Transitioning from the 1997 UBC to the 2003 International Building Code: CCPI is planning to bring back Mr. S. K. Ghosh, late this year or early next year, to present a seminar on his new publication "Seismic and Wind Design of Concrete Buildings (IBC 2003)".

#### 2005 Calendar of Events:

May 26, 2005 Qrtly Meeting: Structural Engineering Challenges: Ko'olani Condominium and Other Interesting Projects (Speaker: Mr. Derrick Roorda, P.E., DeSimone Consulting Engineers, Inc., San Francisco)

June 16, 2005 Dinner: Young Member Forum Kick-Off Event – Sam Choy's Breakfast, Lunch & Crab

(continued on page 9)



#### HAWAII CHAPTER

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

#### 2005 OFFICERS & DIRECTORS


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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

#### General Membership Update


Dr. Ian Robertson, Professor in the Civil Engineering Department of the University of Hawai'i at Manoa, presented his final report for the Corrosion Study of Galvanized Steel Fasteners used in Cold Formed Steel Framing on May 24th at the Plaza Club. During the joint event with Hawaii Pacific Steel Framing Alliance, the sponsors and committee members from the steel framing industry were recognized for their contributions to making this research as extensive and successful as possible.

On May 30th, the National LGSEA tallied the votes of the membership on whether to merge with the Steel Framing Alliance. Results of the votes will be reported in next month's issue.


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	<i>email: kniiya@atahawaii.com</i>		
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	<i>email: wbillingsley@beltcollins.com</i>		
Vice President	Lori Fong	384-5372	689-1585
	<i>email: lfong@ascehawaii.org</i>		
Secretary	Phillip Ooi	956-8512	956-5014
	<i>email: ooi@wilki.eng.hawaii.edu</i>		
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	<i>email: ron@iwamotollc.com</i>		
Past President	Westley Chun	440-0269	945-7269
	<i>email: Westley.Chun@ch2m.com</i>		

#### JUNE DINNER MEETING

Program: Rodney Haraga, Director of the Hawaii Department of Transportation

Please join our distinguished speaker, Rodney Haraga, who will address the direction he is taking the DOT, some of the accomplishments of the DOT over the last 2½ years, and some changes in the organizational structure meant to provide more efficiency in the development of planning to project delivery.

Date: **Thursday, June 16, 2005**

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 checks payable to ASCE-Hawaii Section and mail to Ron Iwamoto, ASCE Treasurer, c/o Iwamoto & Associates, LLC, 98-029 Hekaha Street, Suite #37, Aiea, Hawaii 96701, postmarked by Monday, June 13, 2005. Reservations for the dinner meeting to Ron Iwamoto by Monday, June 13, 2005, by phone at 486-5202, fax at 486-5206 or email at [ron@iwamotollc.com](mailto:ron@iwamotollc.com).

#### EXECUTIVE COMMITTEE MEETING

June 14, 2005

#### 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 increasing the annual scholarships. 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](mailto:Westley.Chun@ch2m.com).

#### ASCE JOB LISTINGS

The following employers have openings they would like to fill:

- Austin Tsutsumi & Associates, Inc. (Civil Engineer - Honolulu and Wailuku, Land

Surveyor - Honolulu)

- Brown and Caldwell (Senior Drafter - Honolulu, Project Manager - Maui)
- CH2MHILL (Entry-level Water Engineer - Honolulu)
- Fewell Geotechnical Engineering (Geotechnical Engineer - Honolulu)
- Fukunaga & Associates (Civil and Civil/Environmental Engineers - Honolulu)
- GeoEngineers, Inc. (Senior Engineer)
- Miller Associates, Inc. (Hawaii Licensed Land Surveyor)
- Warren S. Unemori Engineering (Project Engineer and Civil Engineer - Wailuku)

For more information on these job listings, please visit the ASCE Hawaii Section website at <http://www.ascehawaii.org/jobs/jobs.html>.

#### MEMBERSHIP DRIVE

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

## ASCE American Society of Civil Engineers

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

#### 2004-2005 YMF OFFICERS

		Phone
President	Paulette Chang <i>Hawaiiymf@yahoo.com</i>	781-1187
Vice-Pres	Scott Jennings <i>sjennings@rci-group.com</i>	845-8440
Secretary	Florence Ching <i>fching@ascehawaii.org</i>	472-1342
Treasurer	Laura Smolinski <i>SmolinskiL001@hawaii.rr.com</i>	382-7174
Student Chapter President	Jesse Elliot <i>Elliotj@hawaii.edu</i>	956-5808

#### Next YMF General Meeting

The next two YMF general meetings are scheduled for Tuesday, June 7, 6:00 p.m., at Eastside Grill along University Avenue, 952-6555; and Tuesday, July 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 Paulette Chang at 257-6920 ext. 231.

#### YMF April Social - Golf Outing

Thanks to all who participated in the YMF golf outing last month. On April 16, 2005, sixteen ASCE YMF members and friends took to the fairways at Kapolei Golf Course. A good time was had by all, especially during the tallying of scores at the 19th hole. The YMF golf committee is planning another golf outing for August 2005, so keep checking the Wiliki and YMF website ([www.ascehawaii.org/ymf.html](http://www.ascehawaii.org/ymf.html)) for the date and sign-up info.

#### Announcements

Looking for P.E. Refresher Course Chairperson. All those interested please contact Paulette Chang at 257-6920 ext. 231.

#### ASCE Job Classified

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



**Golf Outing Photo: Golf Social attendees**



**Montgomery, from page 1**

memory of Francis Rhodes Montgomery to further the field of Mechanical Engineering. It is aimed at the student of Mechanical Engineering with the goal of recognizing and rewarding innovative design efforts, the practicality of the design, and the ability to present the design in a clear and understandable manner. An original trustee of the Francis Montgomery Foundation included Major General (HI) Robert G. F. Lee, Adjutant General State of Hawaii, Department of Defense.

Present for the competition was Mrs. Margaret L. Montgomery, the widow of Francis R. Montgomery and Board member of the foundation who has supported the competition since its inception.

Coordinating this event with Dr. Mehrdad Ghasemi Nejhad for the foundation was James F. Grogan, ASME-HI Past-Chairman. The judges included ASME-HI members Kevin K. Dang, Ronald M. Flegal, and Terry A. Shimabukuro. On hand to encourage the participants were the College of Engineering, UHM, Assistant Dean, Dr. Song K. Choi, and DME Chairman, Dr. Bruce E. Liebert.

ting plant, HELCO Keahole Power Plant, and the Hamakua Partners Power Plant. Other suggestions will be appreciated.

- December 2005 Whale Watching Cruise: A second ASME-HI cruise is in the works. Stay tuned for more details.



**2004-2005 OFFICERS**

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

**SEAOH, from page 7**

June 23-25, 2005 Expo: First Annual 2005 Masonry & Concrete Expo of the Pacific

July 21, 2005 Seminar Meeting: ASCE / SEAOH Joint Meeting – 2005 AISC Unified Specifications Manual and Steel Market Price Volatility (Speaker: Mr. Jason Erickson, Director, AISC Steel Solutions Center)

August 05, 2005 Golf: SEAOH Golf Tournament, Waialeale Golf Club

August 18, 2005 Golf: Annual Steve Fong Golf Tournament (Pearl Country Club)

October 20-22, 2005 Convention: CCPI / SEAOH Convention

October 27-29, 2005 Convention: NCSEA Annual Convention, Kansas City, MO

November 25, 2005 Golf: SEAOH Golf Tournament

January 10, 2006 Seminar: AISC “Steel Design After College”

**ASME, from page 3**

**THE FRANCIS R. MONTGOMERY DESIGN COMPETITION**

The Montgomery-ME 481/482 Design competition was held on May 6, 2005 from 1:30 to 4:30 p.m. in the Kuykendall Auditorium, UHM. Competing were two teams, the HPV team and the Mini-Baja team. Please see the results in this Wiliki issue.

**ASME HAWAII INSTALLATION BANQUET**

A committee chaired by Rodney Krienke was formed to plan this banquet for late May. Supporting Rodney is Derek Kam and Ray Liu. The 2005-2006 officers and director will be installed at this event.

**FUTURE TOURS AND EVENTS**

- P.E. Study Group and P.E. Refresher Course: Chairman Ray Liu is coordinating a review course for the October exam with Dr. Charly Kinoshita and Dr. Stephen Masutani as instructors. Watch for the dates, times and place for the course.
- Tour and Hawaii Section meeting with Big Island member in Kona for October 2005. Possible sites to visit include cold water bot-

**ACI Concrete Field Technician Program – Grade 1 Certification**

*Sponsored by the Cement and Concrete Products Industry of Hawaii*

The ACI Certification Program for Concrete Field Testing Technician – Grade I is for the purpose of certifying concrete technicians who have demonstrated the knowledge and ability to properly perform the seven (7) basic field ASTM tests on freshly mixed concrete.

**Session I: Classroom Training and Practice Session**—Classroom training –Tuesday, July 26, and Thursday, July 28, 2005 from 4:00 pm to 7:00 pm at CCPI office, 2153 N. King Street, Suite 327, Honolulu, Hawaii. Performance practice session Saturday, July 30, 2005, from 8:00 am to 11:30 am at Hawaiian Cement – Halawa, 99-1300 Halawa Valley Street, Aiea, Hawaii.

**Session II: Examination only**—Saturday, August 13, 2005, from 7:00 am to 1:00 pm (specific times to be announced). Location will be Hawaiian Cement- Halawa.

**Session I:** Registration is \$150 per person and includes Classroom Training and Practice Session, ACI Technician Workbook and Manual. **Session II:** Examinations only. Full Exam (written/performance) \$185. Re-take for written exam only \$100. Re-take for performance only \$125. Class size is limited to 12 people. All fees must be received prior to the session date you are attending, no exceptions. Registration deadline is July 22, 2005

**For additional information or to register, call CCPI at 848-7100 or email to [wkawano@ccpihawaii.org](mailto:wkawano@ccpihawaii.org)**



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