

BOTBALL ROBOTICS COMPETITION

ASME Hawaii Section supported the Hawaii Homeschool Association Robot Team in the 2005 Botball Robotics competition. Treasurer Rodney Krienke provided mentoring on mechanical design to the Hawaii Homeschool Association Botball team known as "The Botnicks." The competition was held on April 16 in the Hawaii Convention Center, with over 26 teams from Oahu, the neighbor islands, as well as one team from a High School in Japan. The Botnicks' entries performed well, but were overshadowed by more experienced teams, as well as minor software misbehavior. The Botnicks remained upbeat throughout the competition though, and look forward to competing again next year. Visit the Botball website at www.botball.org for more information. Here is a brief introduction from their website.

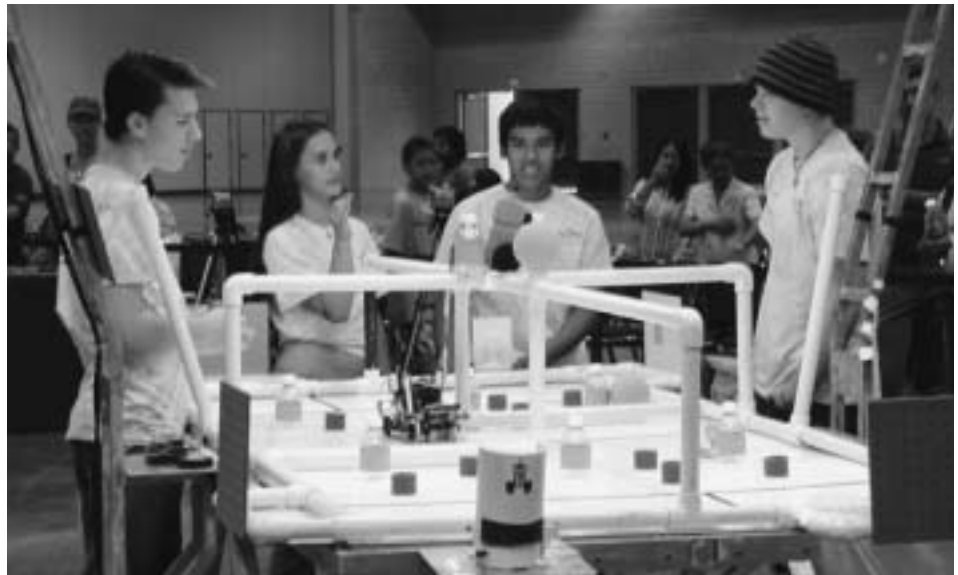
Presented in our region by KISS Institute for Practical Robotics, the Botball Educational Robotics Program integrates science, technology, engineering and math with robotics to keep your students on the forefront of technology. Any middle or high school aged student can participate in Botball as long as the team has an adult contact. The organization of the team is up to the team leader.

By expanding on general classroom curriculum, the program gives students hands-on experience in designing, building, and programming a team of robots, while developing leadership, teamwork and project management skills that will prepare students for the future workforce.

Registered teams will receive KISS Institute's specialized kit of robotics equipment used by major universities. It includes sensors, motors, customized robot computers, selected LEGO Technic pieces, software, and documentation. We provide everything needed to stretch students' imaginations and build a team of robots. The best part is schools get to keep the reusable robotics equipment that can be used as a learning tool in the classroom year round.

Botball kicks off with a workshop where educators learn about current robotics technology and how to integrate it with class curriculum. Anyone can benefit, regardless of technical knowledge or background. Educators are coached through designing, building and programming an actual working robot. At the end of the session, teachers receive a customized robot kit to take back to their students, as well as documentation to show completion of technical training.

Following the workshop, students are given about seven weeks to create a team of robots and a weblog documenting their robot-building



process. Participants compete against each other on a 4'x8' playing field in a fast paced, non-destructive tournament. Robots are student built and computer programmed to maneuver on the game board. Once the game starts, students step back and the robots must start, stop and play the game by themselves without being guided by remote control.

Botball teaches computer programming in the C language. Students can be on the cutting edge as they program in one of the most pop-

ular computer languages used in science and business. C programmers are in high demand and these skills help make students highly employable once they enter "the real world". Students who share in the Botball experience not only learn skills making them more employable in the future, but they also have fun while working as a team to achieve their goals. All that is needed to set students on the path to success is a laptop computer, internet access, and the desire to see students excel!



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Meeting Highlights

March 17, 2005

The featured speaker was Mr. Gordon Lum, Executive Director of the Oahu Metropolitan Planning Organization (OMPO). Mr. Lum discussed Oahu transportation issues. He explained how elements such as forecasts of

population and employment are used to formulate a regional transportation plan. Using forecasting models, Mr. Lum demonstrated peak traffic and travel times to downtown Honolulu in 2030. Mr. Lum also informed the group that OMPO invites the public to participate in meetings about transportation planning issues. In addition, Mr. Lum shared that OMPO conducts telephone surveys to extend the reach of its public involvement process.

Mr. Lum then addressed the topic of mass transit. He explained that conducting phone surveys about transit, resulted in the following results:

- 44% of the people interviewed favored transit as the solution to Oahu's congestion problem. 45% of the group supported increasing roadway efficiency or capacity. The remaining percentage was undecided.

(continued on page 9)



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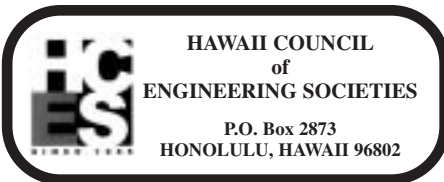
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	<i>email: Westley.Chun@ch2m.com</i>		

MAY DINNER MEETING

Program: Ed Hirata (Director of the Department of Transportation Services) and Gordon Lum (Executive Director of the Oahu Metropolitan Planning Organization, OMPO)

Please join our two distinguished speakers Ed Hirata and Gordon Lum who will address topics that are of significant interests to the public and civil engineers from the transportation perspective. Ed Hirata will speak on the Rapid Transit/DTS projects, while Gordon Lum will describe the Oahu regional transportation plan and why it is important, discuss where rail fits into this plan, and enlighten us on projects that are being proposed to address our transportation needs.

Date: **Thursday, May 19, 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, May 16, 2005. Reservations for the dinner meeting to Ron Iwamoto by Monday, May 16, 2005, by phone at 486-5202, fax at 486-5206 or email at ron@iwamotollc.com.

EXECUTIVE COMMITTEE MEETING

May 5, 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.

Walter Lum Scholarship Awards AND Student SERVICE AWARDS

This year's winners of the ASCE/Walter Lum

scholarship awards are Yuka Nishikawa and Gabriel Hovdey. Two \$1,500 scholarships were awarded this year. The scholarships are awarded to a junior, senior or graduate student, with preference given to active ASCE Student Chapter members and those with demonstrated financial need. Both Yuka and Gabriel have been very active with the Student Chapter and carry GPA's well above 3.0. Congratulations to Yuka and Gabriel on their outstanding achievements and best wishes in their future endeavors!

Congratulations also go out to Jesse Elliott and James Enoka, this year's University of Hawaii Student Service Award winners. Two service awards are presented annually – one to a Student Chapter Officer and the other to a member who is not an officer. Jesse Elliott is this year's Student Chapter President and James Enoka participated in numerous Student Chapter activities, including serving as the fundraising chair. Both students provided exemplary service to the ASCE Student Chapter, above and beyond the level of effort that is expected of most students. Jesse and James each received a \$750 monetary award for their outstanding services.

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)
- Board of Water Supply (Chief Capital Projects Officer - Honolulu)
- 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 to refer them and you could be a winner in the next drawing! Please contact our membership chair, Lori Nishida, at 533-3646 or lnishida@atahawaii.com for further information.

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

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



2004-2005 YMF OFFICERS

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Treasurer	Laura Smolinski <i>Smolinski001@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, May 3, 6:00 p.m., at Brew Moon Restaurant and Micro Brewery in Ward Center, 593-0088; and Tuesday, June 7, 6:00 p.m., at Eastside Grill along University Avenue, 952-6555. 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 March Technical Presentation – AutoCAD Lisp

On March 19, 2005 the Hawaii Section YMF sponsored a presentation by Mr. Kelie Feng, of M&E Pacific, Inc. on the use of AutoLisp/Visual Lisp programming to simplify, enhance and expedite a variety of common AutoCad drafting tasks. Approximately ten (10) engineering firm representatives were in attendance for this unique presentation to introduce young engineers to the practical applications of this simple, yet powerful programming language. Mr. Feng has spent the last several years refining his knowledge of the AutoLisp language, and in the process has created hundreds of routines to assist in civil drafting and design. Over the course of the presentation, Mr. Feng gave a brief background of the language then demonstrated the breadth of what lisp can accomplish, including; drafting of various leaders, automatically labeling and editing azimuth and distance information, multiple sheet/file batch plotting to plotter and pdf, expedition of drafting and utility/roadway coordination between plan & profile plans, global editing of multiple drawings/files, quantity take-off calculations with automated export to Excel.

For questions or for further information on Lisp programming, please feel free to contact Mr. Feng at (808) 521-3051 or by e-mail at *Kelie.Feng@m-e.aecom.com*.

YMF April Community Service Project – State Science Fair Judging

By Laura Smolinski,
Hawaii Section Community Treasurer

During the first week of April, Neil Blaisdell Center Exhibition Hall was filled with hundreds of students from Hawaii's Intermediate and High Schools who spent countless hours preparing projects for the 48th Hawaii State Science and Engineering Fair. Mr. Walter Billingsley of the ASCE Section and Laura Smolinski of the ASCE YMF Section were faced with the task of selecting three projects to receive recognition from the Section. The competition was intense. Projects were judged in the Earth Science, Engineering, Environmental Sciences, and Physics categories. Topics encompassed everything from aquaponics to

bioremediation. The lucky winners for the ASCE cash prizes were divided into three categories: Junior Research (grades 6-8), Senior Research (grades 9-12), and the Teacher's Award. The winning projects were: What Time of Day Can a Solar Panel in Palolo Valley Absorb the Most Sunlight (Junior Research), The Viability of Processing Cruise Ship Waste at Land-Based Water Treatment Facilities (Senior Research) and the Bioremediation Principles and its Application to a Microbial Bioreactor (Teacher's Award). The opportunity to walk around and speak with Hawaii's future engineers was a real treat that we hope to experience again in following years.

Announcements

The ASCE Hawaii YMF is looking for an enthusiastic, hard-working individual to Chair our semi-annual P.E. Refresher Course. All those interested please contact Paulette Chang at 257-6920 ext. 231 or at *hawaiiymf@yahoo.com*.

ASCE Job Classified

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

KNOW YOUR ASCE HISTORY

by C.S. Papacostas

WAINIHA POWER PLANT

In February of this year (2005), I said that I would follow up on a lead given me by Richard Cox about the McBryde Plantation on Kauai being an early user of coal in Hawaii. However, the devastation caused by the October 30, 2004 flood in Manoa Valley to Hamilton Library deprived me of access to a major depository of historical data and caused me to rely more on antediluvian, so to speak, materials that I had already accumulated.

Among them was an August 16, 1906 article from "The Hawaiian Star," one of two precursors of the "Honolulu Star-Bulletin." Under the headline "The Wainiha Waters Harnessed to Toil," this lengthy story by Charles L. Rhodes gave an exuberant account of "the inauguration of the Kauai Electric Plant, the first long distance electrical transmission plant in the islands" by the Kauai Electric Co., a subsidiary of the McBryde Sugar Company (MSC).

The story described a ditch-and-tunnel project as "tapping the Wainiha stream at an elevation of 655, carrying 60,000,000 gallons a day along the wall of the valley to a point 575 feet above sea level from whence it is dropped down through thirty inch steel pipes to water wheels of the Pelton type, carrying on the same shaft, great electric gener-

ators... From these generators, the current of 2200 volts is transformed to a voltage of 33,000 and then carried on three aluminum wires across the mountains, 35 miles, to McBryde Plantation, where it is again transformed to 2200 volts and applied, through motors, to the operation of pumping plants, and some other purposes." Pumping, by the way, was necessary to lift irrigation water from Hanapepe River to the company's sugarcane fields.

According to Rhodes, the aqueduct consisted of 3.5 miles of tunnel and 1.5 miles of ditch. It had a main intake at Wainiha stream but also intercepted several other streams on its way to a "cemented forebay" from where the water was dropped "at a very steep angle" to the power house, "a concrete structure built on the firmest possible foundation to resist the enormous pressure of the 500 foot head of water in the thirty inch pipes." Credit for the technical work was given to W. E. Rowell for conceiving the scheme, J. M. Lydgate "who had made the first reconnaissance and had formulated the plan," the Hawaiian Electric Company "who were the consulting as well as the constructing engineers," James W. Robertson, "the designer and constructor for the intake and its appurtenances," Henry Jaeger, contractor for the ditch and tunnel system, W. N. Grant (an electrical engineer) for directing the powerhouse construction, and John Cassidy for performing the wiring. A. Gartley was also recognized as to have "designed not only the electrical construction and equipment, but the hydraulic and mechanical as well." Interestingly, the May 2002 issue of "Wiliki o Hawaii" identifies Alonzo Gartley as "a US Naval Academy graduate who had been brought out from the mainland

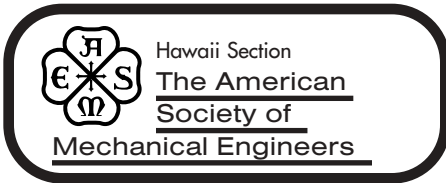
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Website: www.sections.asme.org/hawaii

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HAWAII SECTION GENERAL MEETING

Date: Tuesday, May 10, 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.

TOUR OF THE HONOLULU ADVERTISER PRINTING PLANT IN KAPOLEI

The tour is scheduled for Wednesday, May 11, 2005, starting at 10:00 a.m. sharp. Please contact Ed Chang (e-mail: change025@hawaii.rr.com) by April 30, 2005, if you have time to attend. You must wear hard sole, covered shoes. Other than that, you can wear shorts and tee shirt.

The main features of this plant appear to be the two RegioMAN presses and their 12 towers. Sounds like the "Lord of the Rings." With this state-of-the-art MAN Roland offset printing presses, the Advertiser can print at speeds up to 70,000 papers per hour. Compared to the old presses this is like flying an F-15 fighter jet to driving a covered wagon. Hope you can make it.

2005 BALLOT AND SURVEY

ASME-HI is at least consistent when it comes to the amount of members returning the annual ballot and survey. The magic number appears to be 30. By the March 31 deadline, 29 ballots and 32 surveys out of about 240 were received. Every year for the past 5-10 years, about 30 are returned completed. Surprisingly, the number could be higher if the same members returned theirs every year. Unfortunately there are about 5-10 members who seem to alternate years. Nevertheless, we thank everyone who took the extra effort in participating in the annual balloting and survey.

The Hawaii Section 2005-2006 officers are Chairman Ray Liu, Vice Chair Rodney Krienke, Treasurer Derick Kam, Secretary Kevin Dang, and Director Jim Grogan. Ron Flegal is the holdover Director. Congratulations and we expect another busy and productive year under the leadership of Chairman Ray Liu.

There were no surprises in the surveys. Most responding members agreed to receive the Wiliki electronically. Besides the cost savings, they see the benefits of receiving the Wiliki via e-mail days before the USPS would deliver. Most seemed interested in attending the meetings. We hope to see some new faces in future meetings.

Suggestions for tours were few. No one volunteered for any committees. Only two volunteered to teach PE review classes, Jay Higashi in Fire Protection, and Dr. Charles Kinoshita in Thermodynamics. Three members are interested in volunteering to be a TEAMS Competition mentor.

THE FINAL REGION IX RAC

By the time you read this the "Last RAC" or Region IX Regional Administrative Conference will be over. The LAST RAC was held on Saturday, April 16, 2005, at the Hilton Los Angeles Airport from 10 a.m. to 10 p.m. According to the latest thinking, Region IX will be combined with neighboring regions into a "District," starting July 2005.

At this meeting Hawaii representatives Ed Chang and Jay Higashi learned about how the "Continuity & Change" reorganizations of ASME is going to affect us. The history of the "Pacific" Region IX was shared along with recollections from many of the Region IX past Vice Presidents. Ed and Jay will share their experiences at the "LAST RAC" in future Wiliki issues.

THE FRANCIS R. MONTGOMERY DESIGN COMPETITION

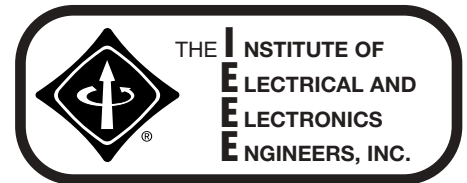
Dr. Mehrdad G. Nejhad announced that the Montgomery-ME 481/482 Design competition would be held on May 6, 2005 from 1:30 to 4:30 p.m. in the Kuykendall Auditorium, UHM. Competing will be two teams, the HPV team and the Mini-Baja team. James Grogan will be coordinating the event with Dr. Nejhad.

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 June 2005. Possible sites to visit include cold water bottling 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.



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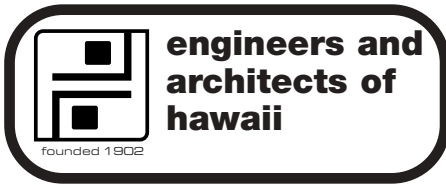


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Hanauma ("Curved" or "Handwrestling") Bay Nature Preserve is legally designated as a State Underwater Park and Conservation District. Hanauma was restored to a clean, healthy state by controlling the number of visitors, establishing an education program, and instituting supportive restrictions. This resulted in the award winning Marine Education Center. The roadway, which leads down to the beach, was also given a face-lift and redone in concrete. It involved a 2-week shut down and resulted in a textured-colored concrete pattern roadway, which matched the existing rock cliffs. It achieved the proper strength in a timely manner to support tram/vehicular traffic.



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EAH May Program

May Program Chair Tit Mun Chun

May 6th Speaker: Bev Harbin, President and CEO, Employers Chamber of Commerce. Subject: "Hawaii Small Business Issues." Beverly Harbin, small-business advocate, has been chair of the Kakaako Improvement Association, president of the Hawaii Automotive Repair Association, and Small Business Advocate at the Chamber of Commerce of Hawaii. In 2004 she founded the Employers' Chamber of Commerce (ECC) to address small-business issues such as health care reform, workers' comp reform, tort reform, GET de-pyramiding, and the Hawaii State Regulatory Flexibility Act of 1998.

May 13th Speaker: Wayne Kawano, President, Cement and Concrete Products Industry of Hawaii. Subject: "What's New In Concrete."

May 20th Speaker: Gordon Lum of Oahu Metropolitan Planning Organization. Subject: "Regional Transportation Plans for the Island of Oahu"

May 27th No Meeting – Memorial Day Holiday
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 gillies001@hawaii.rr.com.

Meeting Notes for March 4th, 2005

SPEAKER: Alan Lloyd, Emeritus Member, Retired Hawaiian Electric Company

SUBJECT: "A Fly Over the Big Island." Alan Lloyd again, at the last moment, presented one of his many presentations on his travels around Hawaii and the world. This presentation was really excellent as Alan dug deep into his old slide presentations to show us young guys the eruptions on the Big Island in the 1950's, 50 years ago!! Alan's slides were as clear as if they were taken last week as well as Alan's memories of his experiences on his numerous trips to the Big Island at the time. Alan's ability to get to the right place and the right time to take his postcard pictures resulted in the telling of the eruptions from start to finish as only Alan can do.

Meeting Notes for March 18th, 2005

SPEAKER: Jade Danner – Director of

Government Affairs and Community Consultations: Council for Native Hawaiian Advancement

SUBJECT: "The Native Hawaiian Government Reorganization Act /The Akaka Bill" Jade Danner gave an informative talk about the Native Hawaiian Government Reorganization Act which was recently passed out of the U.S. Senate Committee unanimously. She explained that the bill does not automatically provide for recognition of the Hawaiian people, but rather outlines the method by which the Hawaiian People should organize all the various different Hawaiian groups so that the Federal Government could recognize one Native Hawaiian Government or entity. There is no blood fraction called for in the Bill, but Jade explained that the some type of Blood Fraction would have to be agreed upon as part of the formal organizational foundation. Once recognition or certification is granted by the Federal Government, the Native Hawaiian people would be eligible to apply for various Federal programs directed to assess and help Native peoples. One of the concerns of the U.S. Senate was that is Bill should not release the State of Hawaii Government from its current obligations to help Hawaiians and this bill does not release the State Government from any obligations.

Meeting Notes for April 1st, 2005

SPEAKER: Ken Perel, MOSAIC Astronomy Academy

SUBJECT: "Encouraging Interest in the Stars"

Ken Perel, who works for MOSAIC, which provides technical support services to Hawaii's astronomy industry, has started a grass roots program to develop an interest in Astronomy and the Sciences within Hawaii's youth. His initial efforts are directed at helping middle school and high school students build their own telescopes from everyday PVC pipes. His goal is to encourage more students, especial young women, to have an interest in the math and sciences. Ken feels Hawaii should have the support for math and science education programs and the support should be similar as that which is provided for the tourist sector of our economy.

Ken explained that there are a lack people living in Hawaii that have the technical training to support the astronomy industry. Most of the astronomy technical workers have moved to Hawaii from the mainland and over-sea. When hiring, they can not find appropriately trained people in Hawaii. Ken explained that part of the problem

is that even though the Hawaii's University's and College are involved in astronomy research, there is a lack of fundamental astronomy training at the college level, which may be because there is no demand from students or sufficient student interest.

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



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Website: www.eaauh.org

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



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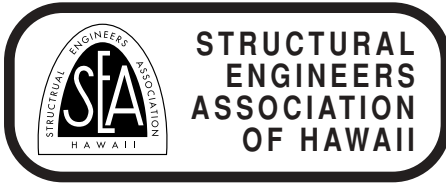
Structural Engineer

Responsible for designs, plans and engineering studies for Civil/Structural systems of the Hawaiian Electric Company's generation, transmission, distribution, telecommunications and substation facilities. Performs design calculations, cost estimates, equipment and construction specifications, evaluates proposals, and makes recommendations. Conducts field inspections to verify field conditions and compliance with drawings and specifications. **Required Qualifications:** State of Hawaii Professional Engineer License in the Structural Engineering branch. Bachelor of Science degree in Civil or Structural Engineering from an accredited engineering college. Thorough knowledge of the principles and practices of engineering design, project engineering, project management, and construction methods associated with structural projects with a minimum of 5 years relevant engineering experience using various codes such as Uniform Building Code (UBC), American Institute of Steel Construction (AISC), American Concrete Institute (ACI). Working knowledge of personal computers and/or mainframe systems and related software applications such as spreadsheets, word processing, etc. Working knowledge and experience in application of structural software programs such as STAAD, STRUDL, RISA, etc. as related to projects. Working knowledge of City, State and Federal laws, ordinances, regulations and procedures as related to specific projects and assignments. Demonstrated interpersonal skills to handle confrontational, difficult and/or sensitive issues. Ability to handle such issues with professionalism while using tact, courtesy and discretion. Ability to remain flexible in a demanding work environment and adapt to rapidly changing priorities. Must have or be able to qualify for a current State of Hawaii and HECO driver licenses to conduct on-site surveys/inspections of projects.

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General Membership Update

Dr. Ian Robertson, Professor in the Civil Engineering Department of the University of Hawaii at Manoa, will be giving his final report for the Corrosion Study of Galvanized Steel Fasteners used in Cold Formed Steel Framing on May 24th. This study was developed with the Steel Framing Alliance and funded by the U.S. Department of Housing and Urban Development. This will be an evening dinner program jointly marketed with the Hawaii Pacific Steel Framing Alliance. Please mark your calendars. Time and location will be announced soon!

HIGHLIGHTS OF BOD MEETING

April 06, 2005

Committee Reports:

Membership Committee: Yen Wen Fang, Engineering Partners, Inc., and Donn T. Kakuda, Libbey Heywood, Inc., have submitted applications for membership as a Member and Allied Member, respectively. Comments on the applications from the general membership are being solicited and shall be submitted to the Board of Directors before May 04, 2005.

2005 SEAHO Convention Committee: Registration information will be distributed soon.

2006 SEAHO Convention Committee: The 2006 SEAHO Convention will be held in Osaka, Japan. Possible day-trip destinations within the Osaka area are Kobe, Kyoto and Hiroshima. Two (2) travel packages will be offered: (1) 4-day package – travel from November 04 through 09, 2006; and, (2) 6-day package – travel from November 04 through 11, 2006.

Computer Committee: Members interested in joining the Computer Committee are encouraged to contact Mr. Brian Kung (Phone No. (808) 942-4400).

New Business:

Masonry Ad-Hoc Forum: The Board addressed a request to consider forming an ad-hoc committee to study the issue of locating conduits or piping in structural concrete masonry unit (CMU) walls and the apparent lack of recommendations in the current Building Code. The Board recommended that the Masonry Institute of Hawaii (MIH) be contacted to suggest that MIH convene a forum to discuss the issue with representatives from the construction industry (e.g.: Masons, Electricians) and other Architect-Engineer consultants / organizations (e.g.: Architects, Electrical Consultants) and SEAHO would participate in the open-panel discussion. Other issues that could be discussed during the forum are the placement of conduits in concrete slabs and fire-rated assemblies. Also, Wayne Kawano will research how the specifications address this issue.

Blast Resistant Structural Design Seminar: Due to interest by the membership in blast resistant structural design, seminar / short course information, including cost, was gathered to determine the feasibility of offering the course locally to the general membership. However, due to the substantial cost of the seminar, it was decided against offering the course as part of the SEAHO Technical Seminar series and, instead, mainland course information will be made available on the SEAHO website (www.seaoh.org) for those interested in

obtaining more information.

Steel References Library: The new SEAHO Structural Steel Library has been set up and resources are currently available for viewing and / or check-out at the office of Special Inspection Consultants, Inc. Members interested in taking advantage of the resource are encouraged to contact Special Inspection Consultants, Inc. (Phone No. (808) 540-1030) to make arrangements. A detailed list of the reference materials will be posted on the SEAHO website (www.seaoh.org).

2005 Calendar of Events:

April 26, 2005 Seminar: Transitioning from 1997 UBC to 2003 IBC

May - June 2005 Golf: SEAHO Golf Tournament

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

June 2005 Qrtly Meeting: Ko'olani Luxury Condos

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

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

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

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


November 25, 2005 Golf: SEAHO Golf Tournament

January 10, 2006 Seminar: AISC "Steel Design After College"


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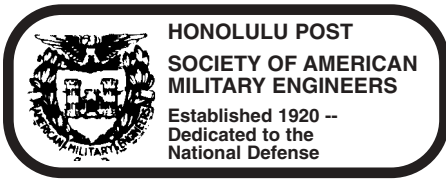


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APRIL MEETING HIGHLIGHTS

12 APR 05

- Attendance totaled 67 people composed of: sustaining members (SM) representing the Architect/ Engineering/ Construction industries and public sector members (military & gov't civilian) representing the Army, Marine Corps, Navy, Air Force and Coast Guard
- This month we had 2 SM Presentations:
 - TetraTech - John Dunbar
 - Onyx Group - Steve Lettau
- Introductions:
 - Regional VP – Adm Gary Engle-congratulated the Post on selection as a Distinguished Post and for winning all streamers. Col Hoarn, Post President, will receive these Awards on behalf of the Post at the National Conference in May.
 - Special Guest: Col (USAF, Ret.) Chuck DeBellevue, Vietnam War's leading Fighter Ace
 - Morgan Branch, SAME Executive Board Member, National Youth Programs
- Feature Presentation: Garrison, Hawaii – Mr. Ronald Borne
 - Topic: Army Transformation Requirements
 - Striker Brigade Beddown
 - 810 more soldiers
 - Post webpage has copy of presentation: <http://posts.same.org/honolulu/>
- New sustaining members:
 - BT Griffin Services – Deane Leidholt
 - Booz Allen Hamilton, Inc. – Kendra McDonough
 - Environmental Resources Management – Jim Frolich
- New Business:
 - Youth Programs – Maj Yvonne Spencer: \$500 bond for Hawaii Science Fair; Mentoring session with students from UH in May 05; Panel members to include several senior engineer officers
 - Scholarships – Commander Hamacher: Post will award \$2,500 scholarships
 - Golf Tournament – Dana Voight: Wednesday, May 10
- SAME Awards to be presented at May '05 National Conference – Louisville, Kentucky
 - EA Engineer Science – To receive the SAME Gen Flowers Small Business award
 - Col Tim Byers, The PACAF/CE – To receive the SAME Newman Medal
 - MSgt Todd Vanscoy, PACAF/CEOG – Selected as the SAME Goddard Medal Runner-Up

- Army Engineer Association – Our liaison is Lt Mark Gillman (65th Battalion)
- IMA Reserve Incentive Flight on 4 June 2005. Contact Maj CJ Pindat at 449-0583 or Maj Don Barnes at 448-8880 or (609) 876-9688. RSVP to Maj Don Barnes at Donald.Barnes@hickam.af.mil.
- By-Laws – Maj Whitecotton
 - Summarized changes to National's template. The Bylaws were passed unanimously. Maj Whitecotton will submit to National this week.

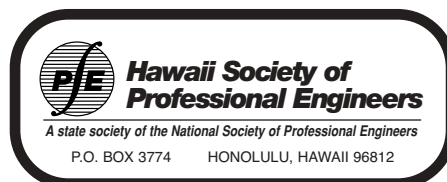
SAME GOLF TOURNAMENT

The Society of American Military Engineers (SAME) is hosting our Annual SAME Scholarship Fund-Raising Golf Tournament on 10 May 2005 at the Mamala Bay Golf Course, Hickam AFB. SAME is a national non-profit professional engineer association with a charter to (a) bring together professional engineers and those in engineering-related fields, (b) improve and increase the engineering capabilities of the nation, and (c) exchange and advance the knowledge of engineering technologies, applications, and practices. We have representation from all the Armed Services here on the island and more information on SAME can be found on our home page, <http://www.same.org/honolulu>.

The Honolulu Post will award four (4) \$2,500 scholarships this year to local students pursuing their education in engineering, science, and/or architecture. Over the past years, we have provided thousands of dollars in scholarships to deserving individuals. At the conclusion of the 10 May event, the Golf Tournament Committee will present a check to Col Steven E. Hoarn, the Honolulu Post President, to fund next year's scholarships. We will also announce the names of the individuals for this year's scholarships.

We request your support of this event so we might attract future scholarship applications and show our strong support for the community in which we live, work, and play. Our tournament will be supported by approximately 150 players, local businesses who have graciously donated prizes, and numerous Post Sustaining Members (PSMs), which are companies who pledge their dollars and time to support our charter.

Contact Info:
 Mr. Dana E. Voight
 SAME Honolulu Post Golf Tournament Chair
 DSN/Comm (808) 448-0475
dana.voight@hickam.af.mil



www.eng.hawaii.edu/~hspe

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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: \$150 (\$225 for SFPE members & Chapter Friends and SEAOH 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

Or visit www.sfpehawaii.org





http://www.geocities.com/hals_us

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 HALS 2004 Conference – Ross Tanaka

Schedule of meetings:

Thursday May 12, 2005
 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

NSPS Governors Report:

Highlights of business from the March 18-23 annual NSPS Board of Governors meeting at the Riviera Hotel in Las Vegas, Nevada:

NAFTA draft agreement completed. Resolution of NCEES comments to be completed by October meeting.

ALTA/ACSM committee finalized latest revisions to ALTA Standards with hopes of getting ALTA acceptance and adoption at their fall meeting. Table A items 6 re: zoning and item 11b re: underground utilities will be revised.

Old accuracy table will be out.

NSPS membership committee unveiled new "Speakers Kit" which contains video of what surveyors do and who they are, a printed script for presentations and an information brochure for recruiting new members. This kit is available through HALS for anyone interested in reviewing the material or needing a professionally designed package for presenting to career day activities at schools and employment fairs.

ASCE History, from page 3

be the Manager at the Hawaiian Electric Company."

Unnamed Japanese laborers toiled under extremely challenging conditions to turn the overall idea into reality.

In their 2001 "History of McBryde Plantation," William K. Yamanaka and Takeo Fuji verified that the major incentive for embarking on this difficult and risky enterprise was the avoidance of the costs associated with running a "coal burning steam engine called Pump #3."

Indeed, Rhodes' story has W. Stodart, the company's manager at the time, explaining that the cost of pumping would be minimal, and that excess "power had already been applied to the machine shop to the saving of a considerable amount of coal," and that it could be further "applied to the [sugar] mill... and eventually to every process on the plantation requiring power." Yamanaka and Fuji tell us that the name of the nearby town of Numila is derived from McBryde's "New Mill!"

The Plantation Archives of the Hawaii Sugar Planters Association (HSPA) tell us that the MSC resulted from an 1899 merger of three other entities, was originally operated by Theo H. Davies and Co. and, since 1910, by Alexander & Baldwin, Inc. Sugar production ceased at MSC in 1996 and many cane fields were converted to coffee cultivation under a new name, the Kauai Coffee Company. Having changed ownership two times, the Kauai Electric Company, since 2002, operates as the Kauai Island Utility Electric Cooperative, owned and controlled by the consumers it serves. This is a first for a utility in Hawai'i.

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>.

ITE, from page 1

- 47% of the survey group was willing to pay a tax to fund a transportation solution. 31% said they were unwilling to pay a tax to fund a transportation solution. The remaining percentage was undecided.
- 70% of the people surveyed expressed support for a rail system.

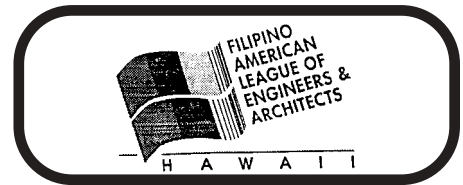
Mr. Lum stressed that to secure federal funds to make a transit option such as rail a reality, Hawaii has to demonstrate a firmly established funding source. Hawaii must present a financial plan that addresses construction, operation and maintenance of the transit system. Mr. Lum said there is increasingly stiff competition for limited Federal funding. For example, in 1992 there were 18 projects proposed nationwide for Federal Transit Administration funds, in 2003 there were 85 projects proposed.

Next Deadline

for

Wiliki

is May 15th



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