

2009 MATHCOUNTS OAHU CHAPTER COMPETITION

The 26th annual MATHCOUNTS Oahu Chapter Competition was held February 7, 2009, in the Kalama Dining Hall on the beautiful Kamehameha Schools campus. There were 31 Oahu schools entered, which included 101 student contestants. Michael J. Chun, Ph.D., President & Headmaster, Kamehameha Schools, Kalama Campus is the Hawaii MATHCOUNTS Chairperson.

MATHCOUNTS is a national math enrichment, coaching and competition program that promotes middle school mathematics achievement in every U.S. state and territory, and is one of the most successful education partnership involving volunteers, educators, industry sponsors and students in America. The competition is opened to 6th, 7th and 8th graders.

The Oahu Chapter Competition began at 8:30 a.m. with the Sprint Round, followed by the Target, Team, and Countdown Rounds. The Sprint Round has individual Mathletes answering 30 problems in 40 minutes. The Target Round has 8 problems in pairs of two with 6 minutes per pair to complete. The Team Round has 10 problems where the teams of four Mathletes have 20 minutes to answer, and finally, the Countdown Round in a round robin arrangement is conducted with the 12 highest individual scorers from the Sprint and Target Rounds. Countdown Round spectators are usually amazed by the brilliance of these Mathletes.

This year the top ten individual scorers were first place Zhengyuan Ma of Punahou School, second place Logan Davis of Iolani School, third place Emile Oshima of Punahou, fourth place Adam Fong of Iolani, fifth place Bradley Wo of Iolani, sixth place Zhaodong Chen of Punahou, seventh place Michelle Tsai of Punahou, eighth place Nikolai Chen of Iolani, ninth place Stephen Mau of Mililani Middle School, and tenth place Sean Rodan of Punahou. The finalists in the Countdown Round were first place Zhengyuan Ma and second place Logan Davis.

The seven top teams were first Iolani, second place Punahou, third place Mililani Middle, fourth place Niu Valley Middle, fifth place Stevenson Middle, sixth place Highlands Intermediate, and seventh place Kaimuki Middle. All seven move on to compete in the March 7 Hawaii State Competition. As the winning team, Iolani takes home the Hawaii Society of Professional Engineers (HSPE) Perpetual Team Trophy to display at their school for a year.

MATHCOUNTS was honored to have the following as Award Presenters: Dr. Michael Chun; Louise Wong, Associate Superintendent, Hawaii Catholic Schools; Michael Harano, Principal,

Washington Middle School; and Michael Lum, President, HSPE Honolulu Chapter.

HSPE is the sponsor of MATHCOUNTS in Hawaii. They raise the operating funds for the competitions with golf tournaments and donations. Please note that donations are tax deductible. The Hawaii MATHCOUNTS Steering Committee includes HSPE engineers and educators, and is led by Rowena Blaisdell and Pauline Marcello of Kamehameha Schools.

Four Mathletes from the Hawaii will go to the National Competition in Orlando, Florida, on May 7-10 at the Walt Disney World Swan and Dolphin Resort. These four will be determined in competition at the March 7, 2009 Hawaii State Competition. Competing will be the seven Oahu schools plus one school each from the Big Island, Maui County and Kauai.

The top Mathlete at the Orlando competition will be crowned the National Math Bee Champion. For the past two years the Champion has been honored with the Rely Award on the "Live with Regis and Kelly" Show as the Top Junior Achiever, and the top four Mathletes, their coaches, and the top team have all been honored by President George W. Bush at White House Oval Office ceremony during President Bush's eight years in the White House.

Raytheon Company will be the title sponsor of the MATHCOUNTS National Competition for the next three years from 2009 through 2011. Raytheon has partnered with MATHCOUNTS to increase middle school mathematics achievement for the past 13 years, and has donated significant financial con-

tributions to help middle students become creative problem solvers and develop the skills needed to become the math and science leaders of the future.

Dr. Michael Chun and the Hawaii MATHCOUNTS Steering Committee would like to thank all the MATHLETES, their coaches, and all the volunteer proctors and scorers for participating. The volunteer proctors and scorers came from Hawaiian Electric Company, Inc., the U.S. Army Corps of Engineers, ASCE, ASME, and SAME. Without their help there would not be any competition.



First Place Iolani School Team, L-R: Logan Davis, Adam Fong, Courtney Kobata, Bradley Wo, and Coaches Larry Teske and Annette Matsumoto



Awards Presenters, L-R: Dr. Michael Chun, Louise Wong, Michael Harano, and Michael Lum.



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Laverne Higa

Department of Design and Construction

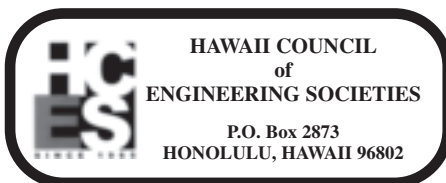
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Honolulu, Hawaii 96825

Work: 808-768-8442

Fax: 523-4567

Email: lhiga@honolulu.gov

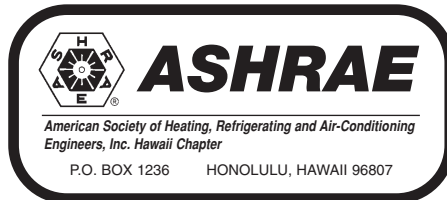
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Sustainable Technology – Plastic-to-Oil Conversion

Happy Chinese New Year! We welcome the Year of the Ox. According to one of the prominent astrologers, "the year 2009 promises peace and harmony as well as an auspicious wave of success, prosperity and growth that is certain to please almost everyone. This is going to be a year of double earth - when the steady hard working Ox rules, thus bringing increased effectiveness and better productivity of efforts all year round. The next twelve months will support people in leadership positions. Those who have recently risen to high office or were promoted last year in the government or in the business world will feel the benefits of 2009 high energy CHI." It seems that the year 2009 for Hawaii Chapter started off with a couple of high energy speakers and will continue-on to have a slate of great speakers.

TSphere Energy Terri Sasaki presented us a new and "out-of-the-box" sustainable technology on plastic-to-oil conversion. She highlighted what type of plastics can be processed such as HDPE (a.k.a. high density polyethylene in milk/water/detergent bottle, grocery bags & containers); LDPE (a.k.a. low density polyethylene in wrapping films, clear bags & toys), PP (a.k.a. polypropylene in clear containers, bottle caps, appliance & automotive equipment), PS (a.k.a. polystyrene in foamed/non-foamed PS, compact disk cases, medicine bottles and trays). She also emphasized what can be processed but not very economical when processed such as PET (a.k.a. polyethylene terephthalate in soda/drinking bottles, textiles and carpet) and PVC (a.k.a. polyvinylchloride in pipe, window frames and flooring).

Our technical session's speaker, Ruskin Manufacturing Company Chris Scharz provided us an informative & educational presentation on

the DO & DON'T for Specifying Life & Safety Devices. Chris basically left with us two important things about "Fire Smoke/Life Safety". One of them is "Do remember, fire and smoke protection is not an option". The other is "Don't be responsible for loss of life, injury and property damage – Smoke kills".

In order for ASHRAE to be a leader in the sustainable building movement, ASHRAE has commenced to gear-up an AdHoc Committee at the 2009 Winter Meeting in Chicago in developing the ASHRAE design guidelines for Net Zero Energy Buildings. The U.S. Department of Energy's Office of Energy Efficiency and Renewable Energy has defined a Net-Zero Energy building as a building that produces as much energy as it uses over the course of a year. Net-zero energy buildings are very energy-efficient, with the remaining low energy needs typically met through the use of on-site renewable energy. Achieving the goal of Net-Zero Energy buildings requires more than simply substituting or adopting new technologies and systems. ASHRAE is working with the American Institute of Architects, the Illuminating Engineering Society of North America and the U.S. Green Building Council to develop a series of Advanced Energy Design Guides for the commercial building sector that will hopefully eventually lead to Net Zero Energy buildings. ASHRAE is sponsoring a Net Zero Energy Building Conference in March in San Francisco.

AGENDA for March 12, 2009 Meeting

Location: The Willows, 901 Hausten Street

5:30 - 6:00 PM – Registration

6:00 - 7:00 PM – DO & DON'T Technical Session

6:30 - 7:30 PM – Happy Hour (Open Bar – 2 drinks per person)

7:00 - 7:30 PM – Dinner & Committee Reports

7:30 - 8:30 PM – Main Program

MAIN PROGRAM: Compliance with ASHRAE Standard 90.1 and LEED

This session will feature our BOG member, Barry Jim On, P.E., who will provide a roadmap to the Compliance with ASHRAE Standard 90.1 and LEED. With the LEED implementation in both public and private projects, ASHRAE Standard 90.1 has gained its utmost importance to the design architects and engineers. This particular standard has played a key role in LEED certification for new construction and renovation projects. The said topic should kick off a good start for the fiscal year 2009. It should continue to educate our own members as well as our asso-

(continued on page 5)

Mayor Mufi Hanneman signed a proclamation proclaiming Engineers Week in the City and County of Honolulu with representatives of the Hawaii Council of Engineering Societies.



WEB SITE www.eng.hawaii.edu/~hspe

2008 – 2009 HSPE State Officers

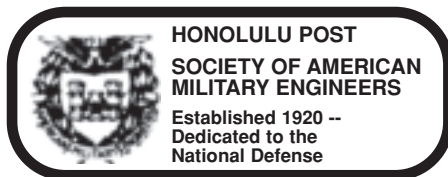
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Congratulations to HSPE President Manny Lanuevo! Manny was appointed by Mayor Mufi Hannemann to serve as the deputy director of the Department of Environmental Services. Manny will be working out of Kapolei Hale.

Manny is a licensed professional engineer and LEED AP (Leadership in Energy and Environmental Design). For the past twenty years, Manny had been working for the State Department of Transportation, Airports Division, most recently, as the Facilities Engineer for the Airports Division Engineering Branch.

Manny's current position as the deputy director, will involve overseeing wastewater and land-fill refuse, as well as the H-power operations.

Congratulations Manny!



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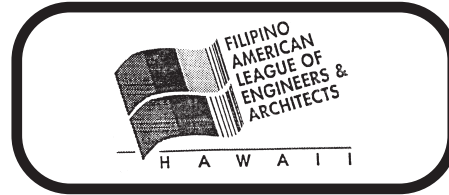
More than 160 members of Hawaii's engineering community gathered at the Hale Koa's Banyan Tree Showroom Feb. 17 for a luncheon to kick off Engineers Week 2009, which runs Feb. 15 to 21.

"Engineers Week is a great opportunity to showcase the accomplishments of our professional engineers, architects, and surveyors," said Todd Barnes, chief of Engineering & Construction, U.S. Army Corps of Engineers, Honolulu District and post president, Society of American Military Engineers.

Jointly hosted by the Honolulu Post of the Society of American Military Engineers (SAME)

and the Hawaii Council of Engineering Societies (HCES), the luncheon featured keynote speaker, Theodore A. Peck, Administrator, Hawaii State Energy Office, Department of Business, Economic Development & Tourism (DBEDT) (bio attached). Peck, a former naval engineer, consultant and energy management specialist discussed Hawaii's Clean Energy Initiative at the luncheon.

Barnes and his staff orchestrated the District's Engineers Week activities along with HCES.



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January 30, 2009

Special Meeting: A special meeting was convened to discuss and work out final details about the FE Review Class commencing 1/31/09. Jeffrey Cudiamat updated the Board about the change in venue due to the unusual interest in sign-ups for the Review Class. One of the volunteer instructors/facilitators is Dr. Raun Johnson who will handle the first session on "Strength of Materials." Other Board members committed themselves to handling some of the logistics. John Ramos thanked everyone for their tremendous efforts, and also reminded all about the upcoming Valentine's Day Banquet on the 14th, and the HCES Awards Function on February 21.

February 6, 2009 Board of Directors' Monthly Meeting:

Treasurer's Report: We are within budget, but need to reconfirm and collect monies from those attending the V-Day banquet. We will also be accepting donations to

defray some expenses for the FE Review Class.

FE Review: Excellent turnout for the first day with 25 actually showing up. There were several who couldn't make it that day. Jeffrey will update the timetable with some minor change and reshuffling of the order of presenters to accommodate their schedules. Next one on is Manny Lanuevo who will handle the "Electrical" portion. Thanks to all Board Members who brought the goodies and prepared snacks. Elvi reported that several attendees also made donations to FALFA. Reminder: No class on Valentine's Day which this year falls on a Saturday.

HCES Awards Baquet: So far we have 5 self-paying individuals who can make it to the banquet in addition to the YEOTY Awardee Jeffrey & wife Cheryl, and Manny Lanuevo who apparently will be representing the Mayor. John Ramos will check on the protocol regarding sitting arrangements, and whether HCES will handle the 3 individuals' dinner costs.

Valentine's Day Dinner: There will be a meeting with Ala Moana Hotel next week Wednesday to sign contract for the February 14th banquet. Elvi, Marisol, Nora, Vergel, and other board members are busy with the preparations for the event. Eugene has volunteered to handle the "games".

Golf Tournament Fundraiser: Elvi reported that we now have a major sponsor. We could use some more. Each Board Member has been tasked to get at least 2 teams and also look for and sign up Tee Sponsors. The date of March 27 is fast approaching. More on this later.

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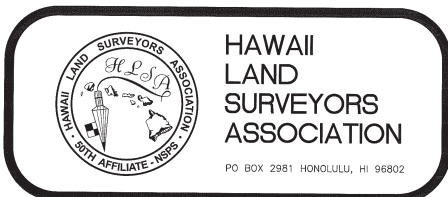
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Trig-Star Program

Testing for the 2009 Trig-Star Program for high school students will begin in March. Thank you to all the dedicated sponsors who help to cover the cost for these high schools and their students.

There are still a few schools who do not have sponsors and we are in need of your help to sponsor them, the cost is \$295.00, please contact Kevin Kea at acelandsurvey@hawaii.rr.com for more information.

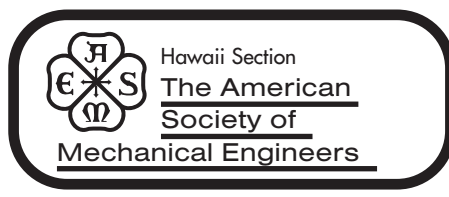
Below is a list of participating schools and their sponsors:

Assets School (ESRI)
 Castle HS (Austin Tsutsumi & Assoc.)
 Halau Ku Mana (none)
 Iolani School (Engineers Surveyors Hawaii)
 La Pietra Hawaii School for Girls (none)
 Leilehua HS (Surveyors Supply Co.)
 Maryknoll HS (Lyon Associates)
 Punahou School (Sam O. Hirota)
 Sacred Hearts Academy (Akinaka & Assoc.)
 Kamehameha School-Hawaii (The Independent Hawaii Surveyors)
 Pahoa High (Mr. Jeff Sato)
 Saint Joseph Jr/Sr HS (none)
 Hana High (Title Guaranty of Hawaii)
 Maui Preparatory Academy (none)
 Saint Anthony Jr/Sr HS (none)
 Moloka'i HS (Ace Land Surveying)

2009 HLSA Golf Tournament

Our 3rd annual golf tournament is again taking place at the Waialeale Golf Club to be held on May 29, 2009. Money raised this year will all go to the Hawaii Foodbank and the Trig-Star Program. Shotgun with teams of 3, registration begins at

(continued on page 7)



Website: www.sections.asme.org/hawaii

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HCES Rep	Derick Kam	
Alternate	John Ahern	

NEXT ASME-HAWAII SECTION GENERAL MEETING

Date: March 24, 2008
 Time: 5:30 pm to 7:00 pm
 Place: Hawaiian Electric Ward Avenue Cafeteria

Agenda: Visit our website for the program.

The March meeting was changed to the fourth Tuesday due to several Executive Committee members not available the regular second Tuesday. There will be lots of pizza and soft drinks as usual. Please contact Ed Chang for directions and for more information, such as parking.

2009 BALLOT & SURVEY

The 2009 nominees were Chairman: Ed Chang, Vice-Chair: Derick Kam, Treasurer: Kevin Dang, Secretary: Derek Sato, Director 2-yrs: James Grogan. The ballot & Survey were sent out via email and USPS. Members were given the option of responding by SurveyMonkey.com or by paper via USPS or email. The deadline for submittal was February 28, 2009. Results of the election and survey will appear in the April Wiliki or members can check the ASME-HI website, www.sections.asme.org/hawaii.

KAIMUKI HS CAREER FAIR

The event was on January 29 in the school gym. Manning the ASME display were John

Ahern, Ed Chang, James Grogan, and Raymond Liu. It was another rewarding visit to a public school to promote Mechanical Engineering.

KAWANANAKOA MIDDLE SCHOOL CAREER SHADOW

On February 6 Ed Chang hosted 11 Kawanakoa Middle School students and 2 teachers from 9:00 a.m. to 12 noon at the HECO Waiiau Power plant. The event was an abbreviated job shadow where the students learned about a "typical" mechanical engineer in three hours.

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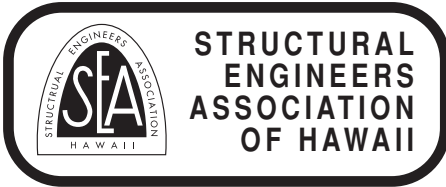
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2009 Corps of Engineers Workshop

The 14th annual Honolulu District, U.S. Army Corps of Engineers workshop for architects and engineers, construction contractors and others in related fields, interested in doing business with the Corps will be held on Tuesday, **April 21, 2009**, from 7:30 a.m. to 1:30 p.m. at the Ala Moana hotel. The theme this year is "2009 - A Year for Change." The focus will be on informing private sector companies about what they must do to successfully execute work with the Corps. The agenda will include an update on upcoming Corps projects. Most of the day will be devoted to a wide range of breakout sessions covering various government initiatives and technical subjects. Corps functional area specialists will participate and there will be ample time for questions. A registration form will be provided in the near future. Please reserve this date on your calendar.



Representatives of the Hawaii Council of Engineering Societies and its member societies attended a proclamation signing ceremony with Lt. Governor Duke Aiona.



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HIGHLIGHTS OF BOD MEETING February 18, 2009

Committee Reports:

General Membership Meetings/Technical Seminars/Events:

The following seminars are anticipated to be presented in early 2009:

- Final 2006 IBC State Building Code – Hawaii State Amendments briefing by Gary Chock
- PCI workshop/seminar sponsored by Grace Pacific Rocky Mountain Prestress
- The next SEA of Hawaii Board of Directors and Officers meeting will be held on Wednesday, March 4, 2009, at the University of Hawaii, Holmes Hall. Contact SEA of Hawaii President-elect Myles Shimokawa (593-0933, mshimo@ksfinc.us) for more information.

2009 Committee Chairs:

Committee chairs for the 2009 year have been announced:

2009 Annual Convention:	Tim Waite
Building Codes:	Glenn Miyasato
Disaster Response:	Kylie Yamatsuka
Hawaii Council (HCES):	Stephanie Doan
Installation Banquet 2010:	John Cheung
Legislative:	Gary Chock, Ian Robertson
Membership:	Jiabao Chen
Nominations:	Ian Robertson
Program:	Ron Iwamoto
Scholarship:	Ian Robertson

Web Site: www.seaoh.org
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Disaster Response Committee:

The final draft of SEA of Hawaii's internal guidelines for response to disasters has been completed and continues to be available on the SEA of Hawaii website for review and comment by the membership.

New Member Applications:

Jinghai Yang's (GMP International) application for SEA of Hawaii Membership was approved.

ASME, from page 4

MATHCOUNTS 2009 OAHU CHAPTER COMPETITION

The 26th Oahu Chapter Competition was held February 7, 2009 in the Kamehameha Schools Kalama Dining Hall. The recruiter, Ed Chang, for proctors and scorers thanks all the volunteers. Without their help there would not be a competition. Most of the volunteers came from HECO, the Army Corps of Engineers, SAME, ASCE, and ASME.

ASME'S POSITION ON EDUCATIONAL REQUIREMENT FOR LICENSURE

(The following was copied from the ASME-NEWS)

ASME believes a four-year bachelor's degree from an accredited college or university should remain the mandatory educational requirement for licensure as a professional engineer in the United States.

Responding to a recent change the National Council of Examiners for Engineering and Surveying (NCEES) made to its Model Law to increase the mandatory educational requirements for professional licensure, ASME has released an official position statement making the case for the traditional four-year bachelor's degree plus career-long continuing education.

The bachelor's degree, along with passing the Fundamentals of Engineering and Principles and Practices examinations and successfully completing a four-year internship, "assure that the knowledge, skills, and ethical standards expected from a professional engineer are attained," the statement says.

ASME believes continuing education is an

essential component for maintenance of one's engineering license. The Society is a strong advocate of lifelong learning and sponsors continuing education and professional development programs, including short courses, in many technical areas.

The NCEES plan, known as "Master's or Equivalent," proposes 30 additional credits or a master's degree, on top of the bachelor's, for licensure. ASME states that the higher educational requirements are unnecessary.

The higher educational requirements also could produce an adverse affect on America's ability to place an adequate supply of engineers in the industrial workforce, enabling the nation to compete technologically and economically, according to ASME.

To read the position statement in its entirety, go to <http://www.asme.org/NewsPublicPolicy/GovRelations/PositionState-ments>.

FUTURE MEETING PROGRAMS

July 14, 2009: Dr. Mehrdad Ghasemi-Nejhad presentation on Nanotechnology. Dr. Nejhad of the Department of Mechanical Engineering, UHM, and ASME Fellow is a leading researcher and authority on this subject.

September 8, 2009: Derek Sato, P.E. will give a general overview of HECO's fuel infrastructure system.

ASHRAE, from page 2

ciated design colleagues including architects and electrical engineers thus helping them to better understand how to apply in their respective designs in order to meet the LEED certification's requirements for any future projects.

COSTS:

RSVP (Pre-registration): Email Kevin Saito kevin.saito@trane.com and remit payment via PayPal at www.hawaii.ashraechapters.org

ASHRAE Members: \$40 per person
Members from any **Hawaii Council of Engineering Societies:** \$40 per person

Non-Member of the above organizations: \$45 per person

No RSVP (Registration on-site):

Regardless of Members or Non-Members: \$50 per person

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Vice-President	Roger Babcock email: rbabcock@hawaii.edu	956-7298
Secretary	Dawn Barsana email: dawn.barsana@ch2m.com	943-1133
Treasurer	Ian Arakaki email: ian@tlcghawaii.com	596-7790
Past President	Ron Iwamoto email: ron@iwamotollc.com	486-5202
Region 8 Chair	Westley Chun email: westley.chun@ch2m.com	943-1133

MARCH DINNER MEETING

Program: Transportation Committee Presentation

Presentation Topic: State Highways Modernization Plan

Presenters: Brennon Morioka, HDOT Director; Jiro Sumada, HDOT Deputy Director

Date: Thursday, March 19, 2009

Location: Treetops at Paradise Park, Manoa Valley

Time: 5:30 p.m. - Social Time
6:30 p.m. - Dinner
7:00 p.m. - Program
8:45 p.m. - Adjourn

Menu: Multi-entree buffet

Cost: \$22.00 for ASCE Hawaii Section members
\$25.00 for Non-ASCE Hawaii Section members and Guests
\$11.00 for UH Manoa Student Chapter members

Please make checks payable to ASCE-Hawaii Section and mail to Ian Arakaki, ASCE Treasurer, The Limtiaco Consulting Group, 650 Iwilei Road, Suite 208, Honolulu, Hawaii 96817 postmarked by Wednesday, March 11, 2009. Reservations for the dinner meeting to Ian Arakaki by Monday, March 16, 2009, by phone at 596-7790, fax at 596-7361 or email at ian@tlcghawaii.com.

EXECUTIVE COMMITTEE MEETING

Last held: February 9, 2009

Next meeting: March 12, 2009

2009 POPSICLE STICK COMPETITION

14 teams from 8 schools across the State participated in the Popsicle Stick Competition on January 30 at the University of Hawaii campus. The competition is sponsored by ASCE Hawaii Section and is part of the UH Engineering Expo. There are two parts to the competition: the first is a verbal presentation by the students in front a panel of practicing structural engineers; the second is the actual testing of the bridge until it fails. The testing creates a lot of excitement as the students slowly add more weight to their bridge. This year's winner of the bridge load test was Kaimuki Christian School, which carried a whopping 445 lbs! The second place winner was Highlands Intermediate at 265 lbs., and third place went to Hawaiian Mission Academy at 123 lbs. The winner of the presentation portion of the competition was also Kaimuki Christian School, Team Holm. Mililani Middle School and Highlands Intermediate School finished second and third respectively. (Photos attached)

REGIONAL LEADERSHIP CONFERENCE PARTICIPATION

Several ASCE members from Hawaii attended concurrent regional meetings in San Francisco in late January. Our District Governor, Westley Chun, attended the Region 8 Governors Assembly Meeting on January 22nd and Society Board of Direction Meeting on January 25th. Our Hawaii Section President, Mike Hunnemann and President-Elect, Jeff Kalani attended the 2009 Region 8 Spring/Winter Planning Meeting on January 22nd. Ben Rasa and Mark Rau attended the 2009 Region 8/9 Workshop for Section and Branch Leaders (WSBL) on January 22nd and 23rd. Eric Arakawa, Troy Ching and Karen Chongue attended the 2009 Region 8/9 Western Regional Younger Member Council (WRYMC) meeting. And UH Students Alicia Nakano and Miranda Li attended the Workshop for Student Chapter Leaders (WSCL).

VOLUNTEERS NEEDED TO SPEAK AT SCHOOLS ABOUT ENGINEERING

The ASCE Hawaii Section Outreach Committee needs you! We need volunteers to speak to students at school career days. Please contact the Outreach Committee Chair Cey Murakami at 448-2877 to let him know that you want to help.

ASCE HAWAII SECTION STUDENT SCHOLARSHIPS

Please help us increase our scholarship endowment so that we can recognize 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 Ron Iwamoto at 486-5202, or ron@iwamotollc.com.

CONTINUING EDUCATION

ASCE National holds more than 275 seminars and computer workshops each year on a wide variety of technical, management, and regulatory topics. These seminars are held in more than 45 cities across the U.S. In addition, ASCE offers customized on-site training and many distance learning programs, including live interactive web/teleconference seminars, online courses and courses on CD, videotape, and audiotape. Please visit www.asce.org/conted/ for complete details.

ASCE JOB LISTINGS

The following employers have openings they would like to fill:

- Austin Tsutsumi & Associates, Inc. (positions available: Civil Engineer - Honolulu and Wailuku, Land Surveyor - Honolulu)
- Bills Engineering Inc. (Civil Engineer, Engineering Assistant, & CADD Technician)
- Bow Engineering & Development Inc. (Project Manager & Project Engineer)
- C H 2 M H I L L (Transportation/Traffic Engineer - Honolulu Office)
- Fewell Geotechnical Engineering (Geotechnical Engineer - Honolulu)
- Fukunaga & Associates (Civil & Environmental/Sanitary Engineers - Honolulu)
- Kaua'i County Board of

Water Supply (Manager and Chief Engineer)

- Moffatt & Nichol, Hawaii (Civil Engineers - Honolulu)
- Warren S. Unemori Engineering (Project Engineer & Civil Engineer - Wailuku)
- Monsanto Hawaii (Project Engineer - Oahu)

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

**2008-2009 YMF Officers**

		Phone
President:	Aaron Erickson aerickson@ascehawaii.org	591-2728
Vice-President:	Eric Arakawa earakawa@ascehawaii.org	258-5770
Secretary:	Karen Chongue kchongue@gmail.com	779-4106
Treasurer:	Troy Ching troy.ching@hdrinc.com	440-4548
Past President:	Lisa Takushi ltakushi@ascehawaii.org	531-4252 ext14

Next YMF General Meeting

The next two YMF general meetings are scheduled for Wednesday, March 4th, 6:00 p.m. at Hukilau, (808)523-3460, and Wednesday, April 1st, 6:00p.m. at Panya Bistro Ala Moana, (808)946-6388. If you are interested in attending to find out what the YMF is all about, please contact Aaron Erickson at (808)591-2728 or aerickson@ascehawaii.org.

Aloha Stadium Field Trip

By Aaron Erickson, President

The YMF is planning a field trip to the Aloha Stadium to learn about the history of the structure and observe current construction efforts underway to preserve and update it. During the field trip it is anticipated that there will be at least two separate projects underway at the site - The first phase of a re-roofing, re-painting, and structural upgrade project, and a project to stiffen the curved concourse bridges that addresses long-standing period of vibration issues. If you are interested in participating in the tour please contact Aaron Erickson with any questions and to be notified directly when plans materialize, future announcements including dates will be in future Wiliki releases.



The winning team from Kaimuki Christian School.

KNOW YOUR ASCE HISTORY

by C.S. Papacostas

COLOSSAL DRYDOCK DEDICATED

When I began in Jan. 2008 to describe the story of Drydock No. 1 at Pearl Harbor, I expected to merely give a brief overview of this groundbreaking structure (pun intended). Little did I know then that the tortuous twists and turns of the story, as well as the high level of interest it generated among my readers, would cause me to spend more than a year at the task. But all good things must end.

After a spectacular collapse on Feb. 17, 1913, several civilian and navy engineers contributed to a novel design, among them Alfred Noble, past ASCE President, who unfortunately was not destined to see either the final design or the subsequent completion of the dock. Last month (Feb. 2009) we saw that a supplemental contract was let on Nov. 19, 1914 to build the facility according to the unprecedented method that was later described by Navy Secretary Josephus A. Daniels as follows:

"The new method prescribed provided that concrete sections 60 feet long and the full width of the dock should be cast one at a time on a [wooden] floating drydock built for the purpose. These sections were poured around a heavy grillage of structural steel to insure proper strength and stiffness. The floating dock was then submerged and a great steel caisson or flotation tank was fastened water tight above the concrete section by anchor bolts. The composite box or vessel thus formed, weighing about 17,000,000, was afterward set afloat and towed to the final site, which was carefully prepared to receive the load. An inner compartment of the steel caisson was then flooded, allowing the unit to sink into position, but providing an unwatered space within the caisson where the side-walls of the dock could be carried by ordinary concreting methods up to one foot above high tide; after this was done, the caisson was detached and re-floated, leaving a concrete dock unit in place and making a return trip to the floating dock for the next section [Pacific Commercial Advertiser, PCA, 8/9/1919]."

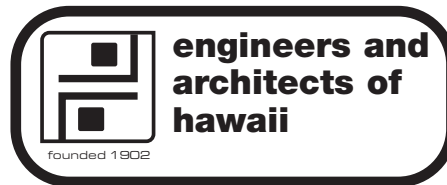
The foundation incorporated 14,100 piles driven at varying depths and a layer of rock that formed a perfectly level base. Engineer Charles W. Parks, USN, was brought back to Hawaii in January 1915 to oversee the job for the Navy. He had been the engineer in charge of construction at the new naval station back in 1908, but was re-assigned to the continental U.S. in 1910.

Parks stayed until Dec. 1917 when 16 of the 17 sections of the dock were completed. Navy engineer C. A. Carlson who was, in turn, substituted for by George A. McKay in Feb. 1918 replaced him. Incidentally, the dock's component sections were fused together by concrete tremied in the 4-foot wide spaces between them. The

17th section was a semi-circular wall at the head of the structure consisting of 160 precast concrete blocks, lowered by means of the structure's electric crane, and connected by tremied concrete. A rock ballast was placed inside the basin when the drydock was first pumped in the spring of 1919 to resist uplift before a layer of concrete was added to make the bottom 16 feet thick [Star Bulletin, SB, 8/20/1919].

Drydock No. 1 was dedicated on Aug. 21, 1919, on a day that had been proclaimed a public holiday for the City & County of Honolulu by Governor C. J. McCarthy and Territorial Secretary Curtis P. Iaukea. The Secretary of the Navy Daniels arrived the day before when "the lookout at Diamond Head... reported the U.S.S. New York steaming toward the harbor at eight miles an hour shortly after dawn [SB, 8/20/1919]."

Accompanied by four destroyers, the "super dreadnaught" class battleship belonged to the newly assembled Pacific Fleet that had left Hampton Roads, Virginia, on July 19, crossed Panama Canal and sailed for the West Coast. The Secretary's wife and two sons accompanied him from there to Honolulu, along with an entourage that fittingly included none other than Charles W. Parks, now a Rear Admiral, Chief of the Navy's Bureau of Yards and Docks, and "one of Hawaii's best friends at the national capital with reference to Pearl Harbor Naval Station [PCA, 8/4/1919]."



po box 4353, Honolulu, Hawaii 96813
An association for Hawaii's Engineers and Architects
WEB address: <http://eahawaii.googlepages.com/home>

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Past Pres	Ardalan Nikou	523-8874

March 09 Meetings

Programs and Speakers are also announced on EAH WEB site <http://eahawaii.googlepages.com/home> and via weekly email notices. If you want to receive a weekly email meeting announcement or want program details **Contact Sam Gillie** (gillies001@heco.com 543-4739)

Originally budgeted for \$2 million and a length of 581 feet, the drydock, including the dock proper, pump well machinery, caisson, and capstans, cost a little more than \$5 million. Its reported outside dimensions were 1029 feet in length, 135 in width at the top, 114 feet width at the bottom, and 35 feet in depth. Often referred to as 1001 feet long and 110 feet wide for the size of ships it can accommodate, it matched the dimensions of the locks at Panama Canal.

Thanks to official photographers such as Tai Sing Loo, the drydock project and Pearl Harbor construction activities in general have been preserved in film.

In perfect working order today, Drydock No. 1 survived the December 7, 1941 Japanese attack unscathed, but the same cannot be said for the battleship "Pennsylvania" and the destroyers "Cassin" and "Downes" that were being serviced in it at the time.

HLSA, from page 4

11am, 12:30 start time. Lunch, dinner, and beverages provided. Individual cost per player is \$100.00. Sponsorships include Platinum at \$1,000, Gold at \$750, and Silver at \$500. For more information see our website flyer at www.hlsa-hawaii.org or email Kevin Kea at acelandsurvey@hawaii.rr.com.

2009 Survey Challenge

Our annual survey challenge was held at Kakaako Waterfront Park on Wednesday January 28, 2009. Out of a total of 5 teams the company that took first place this year was Walter P. Thompson, Inc., led by team captain Jim Reiter and rodman Espinosa. The competition was a level run through the park negotiating hills and building structures with numerous turning points. Mr. Reiter's team executed a perfect closure with the quickest time amongst all contestants. Other contestants included teams from Jack Johnson Co, RM Towill Corp, Sam O. Hirota, and another team from Walter P. Thompson.

Congratulations Walter P. Thompson, Inc!

2009 Map Competition

An ALTA/ACSM Land Title Survey map competition was held at our annual conference on Thursday January 29, 2009. The winner of this year's competition was Daniel Berg of The Independent Hawaii Surveyors. Our distinguished judges were Mr. Gary Kent and Mr. Curt Sumner. Mr. Kent was our main speaker at this year's conference and is also the NSPS ALTA Committee Chair. Mr. Sumner is the Executive Director of the American Congress on Surveying and Mapping, both are licensed land surveyors in more than 1 state. Other contestants included the Jack Johnson Co, Crystal Yamasaki of Wes Thomas & Associates and Jim Thompson of Walter P. Thompson.

Professional Directory

 WES THOMAS ASSOCIATES Land Surveyors 75-5749 Kalawa St., Kailua-Kona, Hawaii 96740-1817 Tel: 808 329-2353 Fax: 808-329-5334 <i>Surveying Hawaii Since 1975</i>	 WPT WALTER P. THOMPSON, INC. SURVEYING & MAPPING 720 IWILEI ROAD SUITE 425 P.O. Box 3351 HONOLULU, HI 96801 PHONE: (808) 536-2705 FAX: (808) 599-4032	 R. M. TOWILL CORPORATION SINCE 1930	 URS Engineers Scientists Program and Construction Managers Environmental Planners 515 Pihai Street, 2nd Floor Honolulu, Hawaii 96814-3141 PH: (808) 585-1116 FX: (808) 585-1138
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Professional Directory

 <p>ACE Land Surveying LLC 733 Bishop St., Suite 1302, Honolulu, Hawaii 96817 Ph: (808) 521-0990, Fax: (808) 521-0958 Email: acesurveying@hawaii.rr.com</p>	 <p>AECOM water • transportation • design • energy • environment www.aecom.com</p>	 <p>AARON UNO Industrial Precast Products Department 91-059 Hanua Street Kapolei, Hawaii 96707 Office: (808) 673-2310 Fax: (808) 673-3355</p>	 <p>Austin Tsutsumi 501 Summer Street, Suite 521 • Honolulu, HI 96817 Phone: 808-533-2440 • E-mail: atstutsumi@austintsumi.com Branch Offices in Waikuku, Maui and Ilio, Hawaii Civil • Traffic • Environmental • Surveying</p>
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