VOL. 42 NO. 8

SERVING 2000 ENGINEERS & LAND SURVEYORS

OCTOBER, 2006

October Is Energy Awareness Month

October is here again and so is Energy Awareness Month. There is a lot to talk about in addition to the weather, which customarily reaches its hottest in the coming month. That means we will all typically use more electricity than ever this month.

This year the national energy awareness theme is "Smart Energy Choices; support our economy; protect our environment; and increase energy independence," with emphasis on renewable energy supplies such as solar, geothermal, hydropower, biomass, hydrogen and wind.

When it comes to renewable energy, Hawaiian Electric has been very visible with a new series of ads on television and in newspapers. You may have noticed Jade Moon in these ads, and if you also listened to what she says or read the content, you know that HECO believes there is the potential to add about 500 megawatts to the existing 140 MW on the HECO, MECO and HELCO systems.

"With these ads, we hope to start a dialogue with the community," said Robbie Alm, senior vice president for public affairs at HECO. "We all need to think about what it will take to reduce our dependence on imported fossil fuels, particularly oil with its high prices, and increase our energy security.

"With all renewable development, achieving the potential of these resources will take cooperation from everyone: landowners, businesses, government, and host communities – not just the utility. We can't do it alone.

"Along with companies like ShellWind Energy and GE Energy Financial Services being willing to invest in renewables here, it will take people being willing to live with renewable projects like wind farms on some of our horizons," Alm said.

In addition to TV and newspapers, you can see and hear (and read) the ads at a new website, www.hawaiisenergyfuture.com and learn more about the renewable energy potential. At the site you can find out about biofuels like ethanol; wind; biomass and a possible new entry to the Hawaii scene: pumped storage hydro (PSH). This wellestablished technology can create "firm" energy from renewable wind energy, which, like the wind, is changeable from minute to minute.

PSH can use renewable wind energy in offpeak hours, like overnight, to pump water through pipes to an uphill reservoir. During times of peak demand during the day, water can be released through the same pipes to turn a hydroelectric generator and create electricity when it is needed.

HECO is also encouraging building owners and managers downtown and in Waikiki to con-

sider Seawater Air Conditioning. This is another established technology that has the potential to reduce the demand for electricity for one of Hawaii's fastest growing uses, air conditioning.

Honolulu Seawater Air Conditioning, based in Minneapolis is proposing a system that would pump cold, deep sea water to an on-shore cooling station where the coldness would be transferred using heat exchangers to chill the fresh water. That fresh water would be circulated through underground pipes to buildings for air conditioning. The fresh water then returns in a closed loop to the cooling station to be re-chilled and the slightly warmed seawater is returned to the ocean at a shallower depth.

In addition to using less electricity, SWAC developers are offering stable air conditioning prices not so tied to the cost of oil. In addition, unlike conventional air conditioning, SWAC uses very little potable water (with no toxic chemicals) and no sewage outflow.

"Customers must make their own decision about whether SWAC works for them," Alm said. "However, we have pledged that HECO will be the first or among the first to sign on with HSWAC and incorporate sea water air conditioning in our historic headquarters building at 900 Richards Street."

October is also the month for Hawaiian Electric Company's third annual **Live Energy Lite celebration**, which this year has moved to Pearlridge Center's Uptown Center Court from **10 a.m. to 3 p.m., Saturday, October 7, 2006.** The event — featuring entertainment, games and prizes as well as displays and experts to answer questions on energy conservation and environmental stewardship — is also sponsored by Pearlridge, the Hawaii Department of Business, Economic Development and Tourism, and Malama Hawaii.

Entertainment includes the Na Hoku Hanohano Award winning Ho'okena, one of Hawaii's long favorite musical groups, and Mad Science of Hawaii, a group of madcap science teachers whose crazy antics on stage make learning science fun and interesting. Among the exhibitors likely to be of interest to engineers included Hawaii Solar Energy Association, the Building Industry Association of Hawaii, and University of Hawaii, School of Architecture.

Also of particular interest to the engineering community, though not technically part of Energy Awareness Month, is the **7th Biennial Efficient Electro-Technology Exposition and Conference** presented by HECO. The Energy Expo will be held 7 a.m. to 6 p.m. on Wednesday, November 29, 2006 at the Hawaii Convention Center. This year's theme is **'Rising to the Energy Challenge.''**

(continued on page 9)

ALLIED PACIFIC BUILDERS TOPS PBN FASTEST 50

By Cicero A. Bernales, FALEA

(Note: Certain portions of this article were quoted from Pacific Business News'(PBN) August 11, 2006 issue from the article titled "Allied Pacific Builds Foundation for Steady Growth".)

Founded only four years ago, Allied Pacific Builders' (APB) revenues grew from \$721,681 in 2002 to \$5,967,168 in 2005, a jump of 726.84% and a leap to the top of PBN's list of Hawaii's fastest 50 small businesses for 2006. For such a distinction and outstanding accomplishment, APB's founding partner, Willie Alicar, has been voted as the most outstanding member of the Filipino American League of Engineers and Architects (FALEA) for 2006. He will be awarded the special honor during FALEA's Induction of Officers at Pacific Beach Hotel on November 4, 2006. The members and officers of the FALEA organization and the Filipino community at large are especially proud of Willie's entrepreneurial skills and accomplishments at APB.

APB specializes in roofing construction but also does general contracting work. The company is currently working on five jobs – one military and four state projects – including the largest contract to date for the company, a \$1.68 million renovation and repainting of Red Hill Elementary school.

Willie Alicar's hands-on management style has enabled the company to take advantage of Hawaii's booming construction economy. In addition to running the company, which currently has about 15 employees, Alicar also works in the field along with his other two project managers. "I'm hands-on as much as I can", he said. "I'm running projects from day one until now ... I don't just delegate it to my engineers."

Thomas Youth, lead business development specialist in the SBA's Honolulu office, said Alicar's responsiveness and customer service orientation are two things that have helped his business prosper. "When I need something from him, he's responsive, he gets back to me to try and provide the information", Youth said. "I think that sort of carries over to what he does in the business world as well, the way he deals with his customers". Willie Alicar says that one of his secrets to success is to get things done as soon as possible, sometimes the day the clients make a request.



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Additions and/or corrections to the Wiliki mailing list should indicate the proper society, institution or association. Corrections to email addresses should be submitted to your society coordinator.

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U.H. Engineering Student Awarded Scholarship from Bonded Materials Company

Mr. Seth Goodnight, a junior at the University of Hawaii, College of Engineering, was awarded the 2006-2008 Eric N. Jacobsen Memorial Scholarship, the twelfth such award since 1996. This year's recipient will be receiving a two year scholarship plus a paid summer internship in the company's concrete quality control and testing laboratory, worth approximately \$17,000.

The scholarship was created in memory of Eric N. Jacobsen, a beloved and invaluable team member of Bonded Materials Company. The purpose of the scholarship is to encourage and reward community involvement and academic excellence by engineering students. Bonded Materials Company is a diversified manufacturer and distributor of construction and concrete related building products, with sales offices in Honolulu, Kona, Guam, Saipan, Phoenix, Colorado Springs and Las Vegas.

Prior scholarship recipients include Lee Ann Shiroma, Stacie Saito, Jennifer Eng, James Cabigon, Aaron Small, Nicole Kikuchi, Timothy Goshi, Jason Seidman, Renee Ishisaka, Brandon Weaver and Alison Leake.



(I to r) Dr. Ronald Riggs, Chairman, University of Hawaii Civil & Environmental Engineering Department, Assistant Dean Song Choi, UH College of Engineering, Seth Goodnight, Jeff Deer, President, and Robert Taylor, Director of Technical Services, of Bonded Materials Company.



P.O. Box 88840 Honolulu, HI 96830 Website: www.acechawaii.org

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	Email: gwright@aced	chawaii.org	

October Meetings

Oct. 3 Board of Directors Meeting - Honolulu Country Club

Oct. 5 1st General Membership Meeting for 2006

- Speaker: Barbara Wong, Executive Director for State Campaign Commission

Oct. 30 Board of Directors Meeting (for November) – Honolulu Country Club

New Business and Committee Reports:

ACECH met with University of Hawaii Board of Regents and Administration to partner and set up an ACECH liaison committee that will assist the UH in dealing with issues pertaining to AE work. ACECH is looking for volunteers to sit on this committee. Please contact any of the Officers if you are interested in sitting on this committee or any other committee.

Update on Defend Clause: The Department of Education has recently elected to remove the "defend" requirements from their contract general conditions. However, the State DOT will still use the clause on selected contracts at their discretion. ACECH and others to meet with the State Small Business Regulatory Review Board on September 20 to discuss the impact of the "Defend" clause in State contract language and its negative effect on Small Businesses. If you would like to submit testimony or attend this meeting to show your support for complete removal of this clause in State contracts, please contact Karen Hong at Finance Insurance at 522-2095.

ACECH is still looking for entries for the 2006 ACEC Engineering Excellence Awards. If your firm is interested in submitting a project, please contact Ginny Wright 741-4772. The Awards banquet is scheduled for December 3, 2006.

ACECH to issue membership directory in October. If there have been updates to your listing, please forward them to Ginny Wright as soon possible.

Old Business

ACECH held its annual City and County of Honolulu Symposium on September 7, 2006. There were many great break out sessions on various topics from Grease Interceptor compliance, upcoming City Work, Design Build Lessons Learned, LEED Workshops, Internet Permitting, Community Outreach, transit, and many others. Many thanks to the various City Departments and personnel for supporting and participating in the symposium, and to the various speakers who participated in the numerous break out sessions. Special thanks to our ACECH City and County Liaison committee who spent countless hours planning this very success full event. Congratulations to those firms who were awarded Certificates of Appreciation from the City for their outstanding work.



po box 4353,honolulu,hawaii 96813 An association for Hawaii's Engineers and Architects WEB Address http:community.hei.com/eah

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	Eric Kashiwamura	543-4705
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Gary Yamamoto

October Meetings

Past Pres.

October Meetings
See EAH Website for Meeting Schedule Details
Oct 6 Program TBA
Oct 13 Program TBA
Oct 20 Program TBA
Oct 27 Program TBA

Meetings held every Friday (except Holidays) at YWCA room 205 on Richards Street downtown. Meetings start at NOON and end promptly at 1:00 pm. Parking at Alii Place off Alakea Street for \$1.50 per hour.

Buffet Lunch: Members-\$10.00, Guests-\$12.00, BYO lunches welcome. If not having the Buffet Lunch a donation is requested: Members \$2, Guests \$3; to help cover room rental costs.

Program schedule may be adjusted. Call Secretary Sam gillie at 543-4739 (543-4804 FAX)

to confirm speaker. Anyone wanting a weekly email meeting notice please send your email address to Sam Gillie at sgillie@hei.com.

Program Notes Aug 4th, 2006 Speaker: Song K. Choi, PhD Assistant Dean

Subject: "Robotics" Dr Choi talked about the engineering departments work with the Department of Defense on Underwater Remote Control Vehicles. They are developing three dimensional coordinate communication system that the underwater Robotics use to determine their location. Dr Choi complete talk has been posted on the EAH WEB.

Program Notes Aug 11th, 2006

Mac McMorrow's words of Wisdom: Secretary of Defense Mr. Rumsfelt was briefing President Bush at the daily security meeting. He told the President that 3 Brazilian soldiers had been killed in Iraqi. The President said "Oh my God!" and put his head down on the table. The Cabinet members looked at him in disbelief and said nothing. After a while the President raised his head and asked. "How many is a Brazilian?"

Speaker: Vinod Veedu, PhD Senior Nanotechnology Engineer

Subject: "Nanotechnology – Why Care?" Dr. Veedu talked about his research on nanocomposite structures and devices and on the applications of Nano technology in our everyday world. Dr. Veedu's complete talk has been posted on the EAH WEB.

Program Notes Aug 25th, 2006

Agie Ahlf celebrated his 95th birthday. He believes he is well on his way to make it to the century mark. **Treasurer Ralph Dobson** advised that due to the increased charges from the YWCA due have been increased to \$50 per year and are now due. Ralph will be sending dues

notices.

Speaker: Mark Leon, President Sunshine Landscape Company, Inc.

Subject: 'Trees In Hawaii' Mr. Leon talked at length on all ranges of maintaining landscaping for tree in Hawaii. He talked about the Do's and Don't on trimming trees. Over trimming can kill most trees, but there a few trees which store sufficient food reserves that they can sustain themselves while developing new leaf systems. Poor trimming can damage the basic structure of tree leading to its collapse. Mark Leon's complete talk has been posted on the EAH WEB Site.

Program Notes September 8th, 2006 Speaker: Dr. Farideh Farhi - Professor of Political Science at UH

Subject: 'Iran Nuclear Controversy" Dr. Farhi has just returned from a two month research visit to Iran, which included a 4 day jail sentence. Dr. Farhi explained the history of Iran's nuclear program which actually started in the 50's with the United States. For many years Iran could not afford a nuclear program because the countries oil revenues were low. It wasn't until the increase in the oil prices and getting control of the oil from western companies that Iran could afford a nuclear program. Iran is a signer of the Nuclear Proliferation Treaty NPT and still allows International inspections at most of its other nuclear sites. She believes the United States does not have enough "Boots on the Ground", because of Iraq, to consider a military option against Iran. An attack on the nuclear facility would only delay Iran's program. Economic sanctions will not be supported by Russia or China. So Dr. Farhi argued that it would be better for the US and the West to continue discussions with Iran. Dr. Farhi complete talk has been posted on the EAH WEB Site.



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- 2-3 years strong professional/investigative/managerial work experience desired
- 23-36 years of age
- Drug policy/drug testing mandatory
- Entry-level salary (GS-10) is \$50,383 Academy training;
 \$60,666 \$68,632 upon graduation, including locality/availability pay



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2006-2007 YMF Officers

President: Lori Nishida Vice-Pres.: Lisa Takushi Secretary: Lauren Ishima Treasurer: Morgan LaRue

Student Chapter President: Travis Nishino

OCTOBER DINNER MEETING

Program: 2006 Annual Banquet:

Installation of 2006-2007 ASCE Hawaii Section Officers & Outstanding Civil Engineering Achievement (OCEA) Award Presentations

Date: Friday, October 13, 2006

Location: Pagoda Hotel, International Room

Time: 5:30 p.m. - Social Time 6:30 p.m. - Dinner 7:30 p.m. - Program 9:00 p.m. - Adjourn

Menu: Choice of either 1) East West Chicken, or 2) Fillet of Mahimahi International,

with Rice Pilaf and Garden Vegetables \$22.00 for Hawaii Section members

\$25.00 for non-section members and

guests

Cost:

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

Parking: \$3.00 flat rate at the Ross parking garage on Kanunu Street across from

the Pagoda Hotel

Please make checks payable to ASCE-Hawaii Section and mail to Mike Hunnemann, ASCE Treasurer, c/o KAI Hawaii, 31 N. Pauahi Street, 2nd Floor, Honolulu, Hawaii, 96817, postmarked by Monday, October 9, 2006. Reservations for the dinner meeting to Mike Hunnemann by Monday, October 9, 2006, by phone at 791-3980, fax at 533-2686 or email at mhunnemann@kaihawaii.com.

EXECUTIVE COMMITTEE MEETING

October 11, 2006

NEW FY 2007 ASCE HAWAII SECTION OFFICERS

The new officers for FY 2007 are listed above.

REGION 8 UPDATE

The Region 8 Board of Governors and Assembly met between August 24 and 26 in Fairbanks, Alaska. The Hawaii Section was represented by Lori Fong. Westley Chun was present as a Region 8 Governor and Society Director-Elect. During the meetings, a motion was passed to assess each section in Region 8 to support regional activities. Beginning October 1, each section will be assessed \$500 plus 50 cents per member. The money raised will be used to enhance communication within the region, establish a regional awards

program, and help fund Governor visits to Sections and Branches.

For 2006 to 2007, each Region 8 governor was given the following assignments:

- Westley Chun (Region 8 Chair) Hawaii and all
- Larry Bennett (Region 8 Vice Chair and Finance Committee Chair) - Alaska, Seattle, Tacoma-Olympia
- Guna Gunalan (Awards Committee Chair) -Utah and Southern Idaho
- Kristina Swallow Oregon (except OIT) and support Arizona and Southern Idaho
- Bob Turner (Communications Committee Chair) - Columbia
- Rick Martin (Resolutions Committee Chair) -Inland Empire and Montana
- Mike Barton (Secretary) Arizona
- Robert Russell Nevada and OIT

In 2007 to 2008, two governor seats in Region 8 will be vacated. If you are interested in serving in a leadership role in Region 8, please contact a member in the Executive Committee by the end of 2006.

NCEES NEWS

The NCEES recently approved a motion to incorporate the following language requiring additional engineering education into its Model Law (Section 130.10):

"Effective January 1, 2015, to be admitted to the principles & practice examination –

- (1) An engineer intern with a bachelor's degree, with an additional 30 credits of acceptable upper-level undergraduate or graduate-level coursework from approved course providers, . . .
- (2) An engineer intern with a master's degree in engineering ."

ASCE's "Raise the Bar" initiative has worked tirelessly to promote this change and is proud of the significant progress that this change in the Model Law represents.

ASCE HAWAII SECTION STUDENT SCHOL-ARSHIPS

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 Keith Niiva at 533-3646, or

kniiya@atahawaii.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)
- Bills Engineering Inc. (Civil Engineer, Engineering Assistant & CADD Technician)
- Brown and Caldwell (Civil or Mechanical Engineer, Senior Level Drafter - Honolulu)
- CH2MHILL (Transportation/Traffic Engineer Honolulu Office)
- Fewell Geotechnical Engineering (Geotechnical Engineer - Honolulu)
- Fukunaga & Associates (Civil and Civil/Environmental Engineers - Honolulu)
- Mitsunaga & Associates, Inc. (Civil Engineers)
- Towill, Shigeoka & Associates, Inc. (Licensed Professional Land Surveyor, Computer/Draftsperson (CAD), experienced Party Chiefs and Rodpersons for Oahu and Kona)
- Warren S. Unemori Engineering (Project Engineer, Civil Engineer, & CAD Operator -Wailuku)

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

ASCE SEMINAR

The following seminar will be coming to Honolulu in October 2006:

Dam Breach Analysis Using the Hydrologic Engineering Center's River Analysis System, HEC-RAS, October 18-20, Radisson Waikiki Prince Kuhio Hotel.

For more information and registration, go to http://www.asce.org/conted/seminars/.

MEMBERSHIP DRIVE

ASCE counts on our members to help us grow every year by actively participating in the Member-Get-A-Member Drive. All you have to do to be eligible to win is refer a colleague, and you will be entered into quarterly drawings. Prizes range from iPods, to gift cards, to cash. 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

(continued on page 8)

Short Course

"Rock Blasting in Urban Environments – Best Public Relations Practices"

Wednesday October 18, 2006 - 8 am - 4 pm Sheraton Waikiki Hotel, "Waianae Room", Honolulu, Hawaii

Course instructors

Dr. Catherine T. Aimone-Martin, President, Aimone-Martin Associates, LLC, New Mexico **Sandra Duvauchelle**, President, Lehua Management Services, Inc., Hawaii

This course is for civil engineers and project managers and will provide the basics of rock blasting with explosives. Blast techniques used to plan and implement a blasting pattern design will be reviewed. Emphasis will be placed on the generation and propagation of ground vibrations and noise (or airblast), the use of seismographs to control these off-site affects, and the response of structures near blasting operations. Effective public relations methods and addressing blasting claims will be stressed. CEUs are available.

Program Fee is \$210. Space is limited to 35 participants. Deadline for registration is October 6, 2006. For additional information or to register, call 808-870-9860 or 505-980-9949 or e-mail cathy@aimonemartin.com or lehuaserv@aol.com.



A Council of the Steel Framing Alliance

HAWAII CHAPTER

98-029 Hekaha St. Unit 23, Aiea, Hawaii 96701 Phone: (808) 485-1400 Fax: (808) 485-1500 Web Page: www.lgsea.com

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National LGSEA Secretariat

General Membership Update

We would like to thank those who have renewed their membership to LGSEA-Hawaii Chapter. The chapter is becoming stronger due the support you have shared throughout these past years. We are looking forward to very productive months to come. If you have not yet received your membership renewal form or have any questions regarding the membership, please contact Membership Committee chairperson Darin Okuda at d.okuda@hawaiiantel.net.

National LGSEA Update

A number of important changes in the LGSEA Operating Procedures were identified as necessary for the growth and success of LGSEA. These changes include, among others, evolving the current name into Cold-Formed Steel Engineers Institute (CFSEI) whose mission is to enable and aid engineers in the efficient structural design of safe and cost-effective cold-formed steel framed structures. The information on this new set-up will be provided soon the national finalizes the details.

METALCON/New Florida chapter

METALCON International, the trade show for the metal construction industry, will hold their annual trade show and educational seminars October 3-5, 2006, at the Tampa Convention Center in Tampa, Florida. During these times, LGSEA will have the following meetings which may be of interest to members:

- #8226; LGSEA Committee and Task Group meetings and updates: Tuesday, October 3: 3-5 p.m.
- #8226; LGSEA Florida Chapter Organizational Meeting: Tuesday, October 3, 5-6 p.m.
- #8226; Technology Development Committee Meeting: Wednesday, October 4, 9 a.m. -Noon.

All events will be held in the Tampa Convention Center. There are also some special programs and educational sessions on framing and engineering design, that may be of interest to LGSEA Council members. For a full schedule and list of activities, go to www.metalcon.com/seminars_events_demos.html.

For room numbers, updated dates and times, additional educational activities and other opportunities, please consult the new and updated LGSEA website at www.lgsea.com.



STRUCTURAL ENGINEERS ASSOCIATION OF HAWAII

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

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BOD MEETING HIGHLIGHTS

September 6, 2006

Committee Reports:

General Membership Meetings/Technical Seminars/Events:

- "How to Retrofit Your Home for the Next Hurricane" is Public Outreach Program that will be held on September 23, 2006 at the Japanese Cultural Center from 9:00 am to 12:30pm. The event is open to the public.
- CCPI annual Meeting will be held at the Hapuna Beach Prince Hotel on October 12 and 13, 2006.
- AISC 13th Edition Design Handbook Seminar is scheduled for October 26, 2006.
- AISC Seismic Design Seminar is scheduled for the end of January 2007.

New Member Applications:

No new applications for membership were received. **New Business:**

SEAOH Installation Banquet: The 2007 SEAOH Installation Banquet will be held on Friday January 19, 2006 at The Plaza Club. The time will be determined.

Nominations for the 2007 SEAOH BOD: Nominations were made for the 2007 SEAOH Officers. People that have been nominated will be contacted to accept the nomination, if they have not already done so. Please contact any SEAOH officer if you would like to nominate someone.

Membership Directory: The SEAOH Membership Directory is being updated and a hardcopy as well as a PDF version will be distributed shortly.



P.O. Box 4135, Honolulu, Hawaii 96812 Website: http://www.falea.org

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13th GENERAL ASSEMBLY

The Filipino American League of Engineers and Architects (FALEA) held its 13th General Assembly and election of Officers and Board of Directors at St. Philomena Church in Salt Lake on August 19, 2006. The new Officers and Board of Directors Members for the year 2006-2008 are listed above. Many thanks to the FALEA members and their families including friends and guests who attended this yearly gathering. The night concluded with lots of foods, dancing and fun.

Joey Resurreccion



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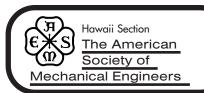








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ASME-HI 2006-2007 Officers

Chair: Raymond Liu
Vice-Chair: Derick Kam
Treasurer: Kevin Dang
Secretary: Ron Flegal
Director (2 yr): James Grogan
Director (1 yr): Chester Kaitoku

NOVEMBER ASME-HAWAII SECTION MEETING

Date: November 14, 2006 Time: 5:30 pm to 7:00 pm

Agenda: General Membership Meeting – Check ASME-HI website for agenda.

Place: Hawaiian Electric Ward Avenue

Cafeteria

Please contact Ray Liu or Ron Flegal for directions and for more information.

RED HILL FUEL OIL STORAGE FACILITY TOUR

On September 5, 2006, LCDR Todd Chipman, Fuel Department Director, FISC Pearl Harbor, took 14 ASME-HI members and guests on a tour of the underground storage facility. Although most of us were born and raised on Oahu we were clueless on the exact location of the storage facility and where the entrance to the tunnels was.

After viewing a 14-minute video in FISC Building 1757 we got in three vehicles for the trip to the tunnels. Building 1757 is near the Arizona Memorial Museum & Ferry Dock. From there we drove past the Aloha Stadium on Salt Lake Blvd., up Kahuapaani St., and then onto Halawa Valley Road, past the Animal Quarantine Station, and to the Halawa Prison area. The gate to the ridgeline road to the tunnel entrance is next to the prison. After a short drive on a one lane bumpy road we reached the tunnel entrance on the Ewa side of the Ridgeline separating Moanalua Valley and Halawa Valley.

The tunnel insides were quite dry and well maintained. We stopped at the ASCE National Historic Civil Engineering Landmark plaque, awarded in 1995. The old narrow-gauge tracks were still in place. A two-car battery powered engine train used them. The highlight of the tour was going inside the unused tank. Abandoned due to corrosion problems, the tank shows visi-

tors the enormous size of each storage tank (20 total).

Back at Building 1757, Ray Liu presented LCDR Chipman a gift basket, a small token of appreciation for a great tour. We again thank Kevin Dang and Stanford Yuen for their efforts in arranging this tour.

DUSTIN HAMACHER, ASME-HI CONTRIBUTOR

ASME-HI bids LCDR Dustin Hamacher, PE. USCG, ASME-Hawaii Section member and supporter, farewell and best wishes as he recently departed to Pascagoula, MS. He takes on a new assignment as Chief Engineer on a new Coast Guard National Security Cutter, the WAESCHE. This ship is named after the Coast Guard Commandant during WWII. It is 418 ft. long, with a max beam of 54 ft, and a displacement of about 4300 LT. In addition to the latest in electronics, fire control/weapons systems, boat handling and machinery control systems, the CODOG propulsion system will deliver a total HP of 49,300 to two 14 ft diameter controllable pitch propellers. Propulsion power is supplied by a single LM2500 GE gas turbine and two MTU 20 cylinder diesels while electrical power is being supplied by three Caterpillar 3512B series diesel engines, each rated at 1360 KW.

While stationed in Hawaii, LCDR Hamacher was the Commanding Officer of USCG NESU Honolulu, a naval engineering maintenance command serving the Coast Guard cutters and boats of Hawaii, Guam and all visiting Coast Guard vessels. Hamacher received his Professional Mechanical Engineering license from the State of Hawaii in 2005.

DR. VINOD VEEDU ON NANOTECHNOLOGY

On September 12, 2006, Dr. Vinod Veedu, Senior Nanotechnology Engineer at the Oceanit Center, explained the basics of nanotechnology to 15 ASME members and guests.

Very briefly, what is nanotechnology in simple words? Well, first of all "nano" is the Greek word for extremely small. When used with technology, it is about extremely small technology. It is technology, which focuses on constructing structures out of atoms; say 10-1,000 at a time, at a scale of a billionth of a meter. Today, nanotechnology plays a significant role in a product's improvement. It has helped make good products better. At the 2006 Multifunctional NANOComposites International Conference held September 20-22, 2006 at the Hawaii Imin International Conference Center, nanotechnology focused on enhancing nanocomposites (i.e., smart materials).



ASME at the entrance to the Red Hill fuel storage facility tunnel.

P.E. REFRESHER COURSE UPDATE

The refresher course is progressing smoothly as Dr. Charly Kinoshita takes the lead with instructions in thermodynamics and power cycles. Specific review topics in thermodynamics includes, but is not limited to, the basic review of the concepts of temperature, pressure, density and other intensive properties; temperature scales, specific heat, units of pressure and applications of the famous 1st Law. Topics in power cycles includes, but is not limited to, the steam Rankine cycle; the air Brayton cycle; the Otto cycle; the refrigeration cycle and of course, the Carnot cycle.

With much material to cover, instructions are concise, focused and to the point. Charly's unique style of instructions include pointed review of relevant formulas, with deliberate repetition of key phrases to reinforce important concepts, followed by examples that demonstrate the application of formulas just reviewed.

Although the pace of instruction is increased, Charly's technique of reinforcing concepts by repetition appears to work well with the candidates. He even tests the candidates by asking them to complete sentences such as "the 1st law states that $q-w=\ldots$," with most candidates responding accordingly. Of course, we know (or should know) that the right side of the equation is the change in total energy which involves the internal, kinetic and potential energies.

With prepared notes distributed electronically to the candidates beforehand, Dr. Kinoshita's power point presentation and use of a portable projector allow for a very smooth and free flowing presentation. And, just like Dr. Steve Masutani, Charly's interjection of humor makes for a very conducive learning environment.

Based on informal surveys of candidates on the quality of instructions, most have indicated that the format is satisfactory and meets their needs. What makes it more interesting is the fact that Charly's daily responsibilities do not normally include teaching undergraduate classes. All candidates surveyed indicate that both instructors have very different, yet very effective and excellent teaching styles.

But most would agree that the best part of the class comes at around 7:30pm where it's time to for the dinner break. So far, the dinner menu have consisted of pizza, Chinese cake noodle, Zippy's chili, chicken, teriyaki beef and even Hawaiian food. All food and beverage costs are subsidized by enrollment fees.

The balance of the instructions as we approach the exam date will include review of HVAC and refrigeration concepts. Since the review of HVAC/R is just the application of concepts in topics already covered, the candidates are well prepared for the sessions of the next few weeks. Instructions for this portion of the course will be in a "panel instructional format," a unique and innovative way for all to be involved in the review process in preparing for the exam.

As the exam comes to a close and the exam right around the corner, the ASME Hawaii section will be planning a special meeting in November to recognize the candidates and to thank Drs. Steve Masutani and Charly Kinoshita for their generous donation of time and effort to positively impact the next group of professional engineers. Watch out for future announcements on the website at www.sections.asme.org/hawaii. All members and friends of the section are invited to attend.

836 5424



The Society of **FIRE PROTECTION ENGINEERS**

www.sfpehawaii.org

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- 1. "Electrical Fire Investigation Class" sponsored by The Hawaii State Chapter of the International Association of Arson Investigators October 17 & 18, 2006 Contact Persons: Colin Shigemasa, President (808) 356-4479 Steve Whiting, Treasurer (808) 637-8663. Seminar Registration Fee \$150.00
- 2. The SFPE Board of Directors is currently studying the need for specialty certification programs in practice areas of fire protection engineering. If implemented, a specialty certification program would be designed for professional engineers who want to demonstrate a higher level of fire protection engineering specialization within a specific practice area. The purpose of this program would be to effectively measure an individual's capability to perform a specific task. For example, possible practice areas of certification could include: • Sprinkler System Design, Fire Alarm System Design, Special Hazard System Design, Computer Fire Modeling, Structural Fire Protection, and Performance-Based Design.

SFPE would like your opinion! If you feel there is or is not a public need for specialty certification programs in practice areas for professional engineers who work in fire protection engineering, please send your opinions to Chris Jelenewicz at chris@sfpe.org.

- 3. 2006 SFPE Professional Development Conference and Exposition Mark your calendars for the 2006 SFPE Professional Development Conference and Exposition October 15-20, 2006 at the Turf Valley Resort and Golf in Ellicott City, Maryland. To learn more about the exhibits or to register for the conference please visit http://www.sfpe.org/ Education/SFPEProfessionalDevelopmentCo nferenceandExposition.aspx.
- 4. The following is a list of references for the October 27, 2006 Principles & Practice of Engineering Exam (P.E.) in Fire Protection: References for the October 27, 2006 Principles & Practice of Engineering Exam (P.E.) in Fire Protection; SFPE Handbook of Fire Protection Engineering, 3rd Ed; NFPA Fire Protection Handbook; NFPA 12, 2005 Ed; NFPA 13, 2002 Ed; NFPA 15, 2001 ed; NFPA 20, 2003 ed; NFPA 25, 2002 edition; NFPA 30, 2003 ed; NFPA 68, 2002 edition; NFPA 69, 2002 edition; NFPA 72, 2002 edition; NFPA 92A, 2006 edition; NFPA 92B, 2005 edition; NFPA 101, 2006 edition; NFPA 220, 2006 edition; NFPA 221, 2006 edition;

- NFPA 251, 2006 edition; and NFPA 2001, 2004 edition.
- 5. NFPA will be holding open registration seminars from OCTOBER 9-13 at the Waikiki Beach Marriott. Seminars offered will include: National Electrical Code®; Automatic Sprinkler Systems: National Fire Alarm Code®; and Fire Alarm Inspection.
 - See http://www.nfpa.org/assets/files/PDF/ ProDevCatalog.pdf for registration information.
- Fire Prevention Week is October 8-14. This year's theme is "Prevent Cooking Fires: Watch What You Heat." At www.firepreventionweek.org.

ASME, from page 6

RESOURCES ON THE FLY - ASME E-LIBRARY EXPANDS TO 75 TITLES

Ever get frustrated at not having the right engineering references at your desk and having to ask co-worker if they have it on their desk? Or, heaven forbid, you have to send mass email notices asking everyone if they've seen YOUR copy of Mark's Mechanical Engineer's Handbook?

As a benefit of being an ASME Hawaii member, the problem is solved as you now have 75 engineering reference titles at your fingertips at the click of your mouse. ASME has expanded its library by adding 72 additional engineering reference title to the original 3 titles since the debut last vear.

The ASME E-Library - available thru ASME.ORG - is a members-only benefit that allows you to access online engineering publications to help answer questions and find practical solutions to everyday on-the-job problems.

To gain access to the newly expanded ASME E-Library, members simply need to visit the ASME Web site and log onto the Members-Only page. ASME members pay no charges for access.

Once in the E-Library, members may select from a large, diverse collection of engineering publications, including "Mark's Standard Handbook for Mechanical Engineers," Handbook of Materials Selection," Mechanical Engineer's Reference Book," "Structural and Stress Analysis," "Pipeline Rules of Thumb," "The Mechanics of Materials," and "The Manufacturing Engineer's Reference Book."

The E-Library also offers members additional benefits that are unavailable from printed references. Using embedded analysis software, members can quickly locate data, analyze it, and export the results. For a complete listing of available titles, visit www.asme.org/ Membership/Benefits/ELibrary_List_Titles.cfm. Members using the expanded ASME E-Library for the first time will need to log onto the Member-Only page and register for access to the service. For future sessions, visitors will just need to log onto the Members-Only page and click on an icon, which opens the collection for use.

The E-Library is powered by Knovel Corp., one of the most comprehensive providers of Webbased information services. Knovel integrates reference books from more than 40 publishers into virtual libraries used by over 490 major corporations, universities, and government agencies worldwide.

To use the ASME E-Library, just visit https://members.asme.org/myasme/login/myas me.cfm? to get started.



Kenneth Rappolt, P.E.

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

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SCHOLARSHIP GOLF SCHEDULED FOR **NOVEMBER 23**

The annual golf tournament and fund raising event is scheduled for November 23 at the Hawaii Prince Golf Course. The tournament, sponsored by the HSPE Educational Foundation. is the primary source of funding for the scholarship and other educational programs. All members are encouraged to support the tournament through personal participation. This is a great opportunity to meet your fellow engineers, clients and industry guests and provide support for the active scholarship fund. The program includes a light lunch, beverages and a buffet dinner awards program following the end of play. Entry forms and information are available from Scott Seu (543 4805) or scott.seu@heco.com. The tournament fees deductible to the extent allowed by the IRS as a donation to a tax-exempt 501 (c) (3) organization.

HSPEEF SUPPORTS FE EXAM FEE

Did you know that the HSPE affiliate, HSPE Educational Foundation awards grants to UH engineering students registered to take the Fundamentals of Engineering licensing examination? This program is intended to encourage students to take the first step in the pursuit of their professional license. Details are available from Sheryl Nojima, P.E. at 521 0306.

NOMINATIONS FOR NSPE FELLOW 2006

NSPE is seeking nominations for the Fellow membership grade to honor a select group of individuals for special recognition. Our state's nominations help bring prestige to members of the Hawaii engineering profession and our state. The Hawaii Society may submit one nomination per year. Nominees must have served as a Chapter ,State or National Officer and be recommended by three members familiar with their work. The State Board forwards nominations to the National Committee. For more information, please see the NSPE website or contact Ken Rappolt, P.E., Hawaii State President (kennethrappolt@forestcity.net)

> **Next Deadline for** Wiliki is October 15th



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

2006-2007 YMF OFFICERS

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President Lori Nishida 533-3646 Inishida@atahawaii.com

Vice-Pres Lisa Takushi 531-2462 ext. 231

Itakushi@ascehawaii.org

Secretary Lauren Ishima Treasurer Morgan LaRue

Past Pres Florence Ching 227-4704

fching@ascehawaii.org

Next YMF General Meeting

The next two YMF general meetings are scheduled for Wednesday, October 4, 6:00 p.m., at Gordon Biersch Brewery Restaurant at Aloha Tower, 599-4877; and Wednesday, November 1, 6:00 p.m., at Compadres Bar & Grill at Ward Centre, 591-8307. If you are interested in attending to find out what the YMF is all about, please contact Florence Ching at 227-4704.

Incoming and Outgoing YMF Officers and Committee Chairs

Much thanks and gratitude to those YMF members who voluntarily provide their time enabling the Hawaii YMF to provide activities and services for its members and community.

YMF VOLUNTEERS RAISE OVER \$3,000 FOR MDA

By Jeff Kalani,

Hawaii Section YMF Past-President

Thank you to all of the YMF volunteers and friends who participated in the Hawaii Chapter Muscular Dystrophy Association's (MDA's) "Catch-a-Cure" fundraising drive on August 27. In just 4 hours volunteers using fish nets collected more than \$3,000 in cash and loose change from motorists at the intersection of Ala Moana Blvd. and Piikoi St. Many generous motorists tossed \$1, \$5, \$20, and even \$50 bills into the volunteer's nets as they drove by. MDA Catch-a-Cure drives were also held at other intersections throughout Oahu that same weekend. The combined total for all Catch-a-Cure sites this year was just under \$10,000. The Hawaii Section YMF has been volunteering in this annual event since 2001, helping to raise close to \$20,000 since becoming involved. This money stays in Hawaii to help fund events and services such as the annual week-long camp that Hawaii MDA sponsors for children and adults who suffer from muscular dystrophy and other neurological diseases - these services go a long way toward improving their quality of life. Thank you again to all volunteers, supporters, and those who donated - we look forward to seeing you again next

KNOW YOUR ASCE HISTORY

by C.S. Papacostas

'DESIRABLE" IMMIGRATION!

On May 5, 1905, C. S. Holloway, Superintendent of Public Works for the Territory of Hawai'i, issued a notice to contractors requesting proposals "for Constructing Dam and Reservoir, in the Nuuanu Valley." Plans and specifications were filed with his assistant J. H. Howland. This was the upshot of a prolonged controversial decision to expand Honolulu's surface water supply.

The procurement method specified, "this contract, though a schedule contract, is to be awarded as a whole, and the estimated quantities, which are included in the specifications, together with the complete list of prices submitted in each case, are to be used as a basis of determining the lowest bidder. These estimated quantities however are approximate only, and the Superintendent of Public Works expressly reserves the right of increasing or diminishing the same as may be deemed necessary."

As L.M. Whitehouse, the winning contractor, later put it to the Hawaiian Star (HS) of June 7, 1906, "the work is not being done for a lump contract price, but on the basis of units... on the basis of a fixed price for units of the several kinds of work."

Howland had announced in 1905 that S. G. Walker drew the plans and specifications for the dam. From the Evening Bulletin (EB) of Jan. 18, 1904, we learn that Howland's previous engagement was in Puna, Hawai'i. Walker himself was referred to as being "of Hilo" but also "of Boston." It turns out that he had started his design work on the dam while in Hawai'i but completed it and received final payment after returning to Boston. By the way, he was also Howland's brother-in-lawl

Outgoing 2005-2006 YMF Officers and Committee Chairs:

Aaron Kam, Jeff Kalani, and Brian Enomoto

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Student Chapter President: Travis Nishino

Incoming 2006-2007 YMF Committee Chairs

Awards: Florence Ching

Community Service: Jennifer Chang and Emi Kiyoi Field Trip/Technical Activities: Paulette Ujimori Golf and Social Activities: Ryan Tanaka Job Shadowing/Practioner Advisor: Chris Souza Newsletter: Karvnn Niimi

P.E. Refresher Course: Eric Arakawa Softball and Social Activities: Stuart Ujimori Website: Joanna Seto In connection with a subsequent contract dispute (which I will discuss in a future article), the EB [June 6, 1906] singled out this clause in Walker's specifications to give a flavor of their degree of specificity:

"The dam is to consist essentially of an earthen embankment, formed of suitable materials satisfactorily disposed, and containing a corewall composed of plank and timbers, carried down to a proper depth to be determined by the engineer. Such probable depth is shown on the plans, but the depth as shown is not to be considered exact or final, as it will be varied according to the character of the formation encountered in the excavation."

It was not until after construction started that Superintendent Holloway publicly admitted that "at the time the work was laid out we had no core drill and as a precautionary measure we are now finding the exact condition and nature of the strata below the dam site [HS, Jan. 4, 1906]."

The contract was let and, as I mentioned last month (Sept. 2006), the contractor was required to employ only "citizen labor." This information I got from the Aug. 15, 1905 issue of HS that, among other items, also identified a Charles Smith as the engineer and a Frank Foster as the foreman.

By then, a dense thicket of hau trees had been cleared, a 35 to 38-foot deep trench was being dug partly by blasting for the 80-foot high core wall, one ditch was being dug on the Waikiki side of the valley to be used for "hydraulicing" and another flume was being prepared across to the other side.

At the same time, "a wooden bridge is being erected across the gulch at present and in a few days a busy little locomotive will run panting about the work pulling, shoving and tugging cars loaded with earth, rock and other material for the big dam. A stone quarry has already been located on the Waikiki side of the valley and lovers of the beautiful will be torn with anguish as they see the ruthless hand of utilitarianism dig into the moss and fern-covered rocks." So much for environmental sensitivity!

"For the accommodation of the large force of men employed," it continued, "three camps have been built... There is a thoroughly equipped blacksmith and carpenter shop, store house, a well stocked grocery and general store which is in charge of [sic] R. H. Worrall, and a restaurant which is run as a private venture by an enterprising Pake." Illustrating the construction logistics of the times, all this development was only "about half a mile above C. M. Cooke's beautiful residence."

(continued on page 9)

ASCE, from page 4

be a winner in the next drawing! Please contact our membership chair, Lori Nishida, at 533-3646 or *Inishida@atahawaii.com* for further information.

ASCE HAWAII SECTION'S WEBMAIL LIST – SIGN-UP AND/OR UPDATE

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 update your email address on that same webpage. Please consider helping the ASCE Hawaii Section reduce operating costs by receiving your monthly issue of the Williki via e-mail. If you have any questions, please contact Webmaster Joanna Seto at 586-4329 or jseto@ascehawaii.org.



ASCE History, from page 8

The idea of English language newspapers in Hawaii referring to Caucasians by their names but Asians merely by their nationality was not uncommon. In fact, it was consistent with the prevailing "citizen labor" laws which, when all said and done and with only a few exceptions, were intended to limit immigration from Asia and to positively encourage "desirable immigration."

The following excerpt represents a small, and comparatively mild, sample of this thinking from a discussion in the New York Independent by Territorial Secretary A. L. C. Atkinson [reprinted in HS Oct. 15, 1905]:

"The Legislature has just created a Board of Immigration, which, in cooperation with the sugar planters and others, is laying plans for securing a supply of white labor consisting of men with families who will found homes and become American citizens, and for encouraging the immigration of the American settler. The mistake of encouraging the Asiatic skilled laborer at the expense of the American is now realized, and I believe that a few years will see a marked return of white skilled laborers to these islands."

Among the proposed incentives offered to these "desirables" were employment opportunities and homesteads.

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.



http://www.eng.hawaii.edu/~hals/hals_001.htm

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Membership: 192 regular, 21 sustaining, 2 honorary,

5 life, 41 governors

Energy Month, from page 1

The 2006 Energy Expo aims to educate and inform Hawaii businesses and individuals about our limited energy resource and the best ways to use it wisely and efficiently. Over 600 attendees are expected at the Expo to learn more about using the latest state-of-the-art technology and practices to save money, reduce their need for electricity and help protect Hawaii's environment.

More than 20 workshops featuring the country's leading experts on renewable energy, recycling, waste management, green building and energy management are included on the Expo agenda.

Among the speakers: Stan Walerczyk of Lighting Wizards in California will speak on high performance lighting for office buildings. Elaine Aye and Ralph DiNola of Green Building Services in Oregon will lead workshops covering strategies for construction of new green buildings and transforming existing buildings into green buildings. Strong of Solar Associates Massachusetts will discuss building with integrated photovoltaics. Other workshop topics include new air conditioning advances, back up power systems and more renewable energy sources.

The Expo also will include over 60 exhibitor booths showcasing energy efficient products and services already available to businesses in the islands. Attendees will be able to see, experience, and learn about energy efficient technologies that they can implement in their own businesses.

As a highlight of the Expo, the 2006 Energy Efficiency Awards will be presented during the conference luncheon with special awards given for "Energy Project of the Year," "Innovation in Design," and "Trade Ally of the Year."

For more information or to register visit http:// energyexpo.heco.com or call (808) 543-4790.



IEEE Hawaii Section

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Future Meetings: (check the SAME post web page for more details)

19 Oct 06 (Thursday) 1130hrs

Location: Hale Ikena, Fort Shafter; Speaker: PACAF/A7; Subject: Air Force Program

Note: This meeting is not on the regular 2nd Tuesday because Mr Wolfe, from the SAME Nationals, will be in attendance.

1 Nov 06 (Wednesday), 1130hrs

Location: NCO Club, Hickam AFB; Speaker: Maj Gen Leaf, PACOM/J01; Subject: Guam

Note: This meeting is not on the regular 2nd Tuesday because it is being held in conjunction with the PACAF CE Squadron Commanders Conference.

12 Dec 06 (Tuesday), 1130hrs

Location: Hale Ikena, Fort Shafter; Speaker: Alan Lloyd; Subject: Historical



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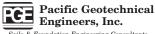
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