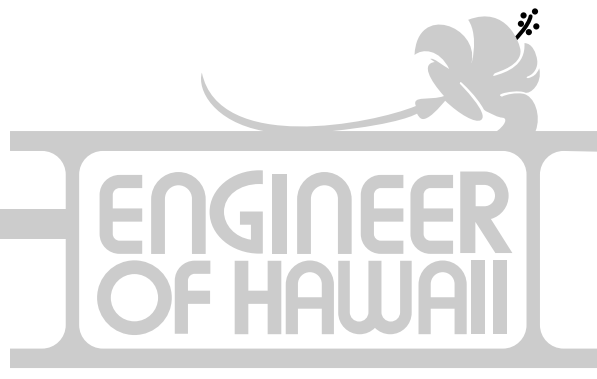


wiliki o hawaii



VOL. 40 NO. 10

SERVING 2000 ENGINEERS & LAND SURVEYORS

JANUARY, 2005

Engineer's Week Kick-Off Luncheon February 22, 2005 at the Hale Koa Hotel

The Holmes Hall facilities of the Department of Civil and Environmental Engineering are insufficient to accommodate the growth of the research and development programs in the department. In particular, the facilities are too small to accommodate large-scale testing, such as full-scale bridge girders, large scale geotechnical investigations, or needed expansion of the Pavement Laboratory. Recent experience has shown that reduced-scale testing is often inadequate and full-scale testing is required to validate new technologies before they can be accepted in relevant codes. The Manoa campus does not have space for such facilities, much like other urban research universities, such as UC Berkeley, UC San Diego, Purdue, and Texas, all of which have off-campus sites to accommodate large-scale civil engineering research.

Our objective is to develop an off-campus Civil Engineering Research Park (CERP). CERP will accommodate large-scale testing in structural, geotechnical, and transportation engineering. It will accommodate research in construction technologies relevant to both private and military housing, retrofit of deficient bridges, and new pavements. It will house other research programs, such as the Transportation Research Center, and training programs, such as the Local Technical Assistance Program (LTAP) that is supported by FHWA/HDOT and is very popular with both HDOT and the practicing engineering community. CERP will be able to accommodate other CEE research programs that require additional space as a result of growth and that can generate external funding to support its operations.

Please complete and submit the 2005 Engineers Week Kick-Off Luncheon reservation form found elsewhere in this issue.



W.F. Chen
Dean of College of Engineering



Ron Riggs
Chair of Department of Civil and Environmental Engineering

Noted Island author BOB SIGALL to speak at Engineer's Week Banquet February 25, 2005 at the Ala Moana Hotel

How did Tripler Hospital come to be painted pink? How did ABC Discount Stores come to be 50 feet apart? Which is the oldest Chinese restaurant in Honolulu? These answers and many more answers to the veiled mysteries of Hawaii's companies, organizations and schools will be revealed by Mr. Bob Sigall at the 2005 Engineer's Week Banquet to be held Saturday, February 22, 2005, at the Hale Koa Hotel Banyan Tree Showroom.

Mr. Sigall is a life-long entrepreneur. He started his first business in intermediate school, over 30 years ago, filing IRS tax returns for his friends so they would get refunds. For six years in high school and college, he had his own window washing business.

Bob has several businesses since getting his Masters degree from the University of Hawaii in 1975. He has been a business consultant since 1978 and owns his own, Creativity-1 since 1985. Over the years he has offered marketing and management consultation to over 700 Hawaii businesses. His recent book, *The Companies We Keep*, tells the amazing stories about 450 of Hawaii's best known companies.

Join Bob and the rest of us at the February Banquet for a night of good company matched with a very interesting and entertaining presentation. Equally important, the night will include the honoring of the Engineer, the Young Engineer and the Student Engineer of the Year for 2005 as well the announcement of the selectee for the coveted HCES Lifetime Achievement Award. A reservation form for the banquet is included in this issue of the Wiliki.



UH College of Engineering Expo 2005

provides a hands-on opportunity for high school students to participate in seven engineering games. Students will utilize teamwork, communication, and creativity to be successful. Last year's event brought together about 550 high school students from around the state of Hawaii. This year's event games include: Battle Bots; Bottle Rocket; Egg Drop; Model Paper Column; Rubber Band Racers; I See, You Create; and Motor Building. Engineering Expo 2005 will be held on Friday, January 28, 2005 from 9:00 a.m. until 1:00 p.m. at the College of Engineering at the University of Hawaii Manoa campus. Anyone interested in participating, assisting, or just observing should contact Ms. Laura Shimabukuro at laura@eng.hawaii.edu or call 956-7727.

2005 HONOLULU ENGINEERING WEEK ACTIVITIES

February 21-27 — Engineers Week Exhibit at Kahala Mall ("Call for Exhibits" form on Page 8)

February 22 — Engineers Week Kick-Off Luncheon at Hale Koa Hotel. See article this page (RSVP form on page 5)

February 26 — Order of the Ring Ceremony. Preceding the Engineers Week Banquet (information and registration forms on page 6)

February 26 — Engineers Week Banquet at Ala Moana Hotel. See article this page (Registration form on page 2)



2540 Dole Street, Holmes Hall
Honolulu, Hawaii 96822

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Additions and/or corrections should indicate the proper society, institution or association.

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website: www.eaauh.org

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Directors: Lloyd P.C.W. Lee
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Happy New Year!

EAAUH Vegas Field Trip

EAAUH would like to invite you to join us on a field trip to Las Vegas from May 18 to May 23, 2005. Activities will include the University of Hawaii Alumni Association Las Vegas Chapter Annual Scholarship Golf Tournament, dinners, presentation and slot/poker tournament.

Contact: Diane Kodama (diane.kodama@m-e.com)

Congratulations to the Fall 2004 College of Engineering graduates!



www.sfpehawaii.org

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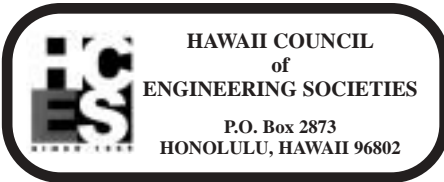
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Robert M. Miller, P.E. 951-7215

email: rpehi@hawaii.rr.com

Webmaster Derick Kam

email: kam@thermaleng.com



HOME PAGE: <http://hces.us>

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ASCE	W. Chun	K. Niiya
ASME	J. Grogan	R. Liu
EAH	M. McMorro	G. Yamamoto
FALEA	M. Shoji	
HALS	E. Kaneshiro	
HSPE	K. Rappolt	Q. Komori
IEEE	G. Torigoe	O. Libed
ITE	C. Yoshida	R. Archilla
LGSEA	W. Wong	
SAME	T. Barnes	
SEAOH	D. Doi	
SFPE	S. Dannaway	
UH(assoc)	S. Choi	



Officers & Directors

President Alan Cadieux
Treasurer Dr. Amarjit Singh
Secretary Maelyn Uyehara
Directors Richard Campbell
Joseph Uno
Karl Kagesa



2005 Engineers Week Banquet
Saturday, February 26, 2005
Ala Moana Hotel – Hibiscus Ballroom I
410 Atkinson Drive, Honolulu, Hawaii

5:00 p.m. Order of the Engineer Ceremony (Optional – See Separate Announcement)
 5:30 p.m. Cocktails
 6:30 p.m. Dinner
 7:15 p.m. Program:
 Presentation of Engineers Week Exhibit Awards.
 Presentation of Engineer of the Year, Young Engineer of the Year, HCES Lifetime Achievement and Student Engineer of the Year Awards.
 Guest Speaker – Mr. Bob Sigall, author of "The Companies We Keep"
 Installation of 2005 HCES officers

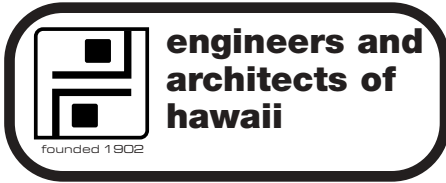
Please reserve ____ table(s) of 10 persons or ____ individual seats for the 2005 Engineers Week Banquet. Rates are \$35 for registration(s) postmarked on or before February 16, 2005, \$40 for registration(s) postmarked after February 16 and \$25 for students. Please type or print names and contact information for attendees.

1.	Name	Company or Organization	Phone Number
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____

Total enclosed: \$ _____

Make checks payable to "HCES" and mail with completed reservation form to:
 2005 Engineers Week Banquet
 c/o Erik Kaneshiro, HCES Treasurer
 Austin Tsutsumi & Associates, Inc.
 501 Sumner Street, Suite 521
 Honolulu, HI 96817

If you have any questions, please contact HCES Chair Tony Lau at 522-7426 or tlau@hawaii-pacificengineers.com or HCES Vice Chair Westley Chun at 488-0477 or wkcchun@engrsol.com



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

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Director	August Ahlf	737-2831
Director	Travis Hylton	531-3017
Director	Eric Kashiwamura	543-4705
Past Pres.	Martin McMorrow	247-1794

January Program Chair Maria Tome – Past President

January 7- Order of the Engineer: Walter Billingsley or Westley Chun will describe the whos, whats and whys; The purpose of the Order of the Engineer is to stimulate formal public recognition by engineers in the United States of two basic principles. These principles are that (1) the primary purpose of engineering is service to the public, and (2) all members of the engineering profession share a common bond.

January 14- No Meeting - in honor of **Martin Luther King, Jr. Day**

January 21- Tom Quinn, Director, Hawaii

Center for Advanced Transportation Technologies, "Hawaii: at the cutting edge of fuel cell and electric vehicle technology"

January 26- TBA- See EAH WEB site

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

Members-\$7.50 Guests-\$8.50

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

Meeting Notes for December 3rd, 2004

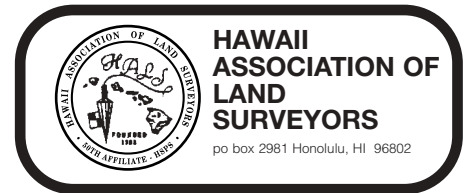
Joint Meeting with Hawaii Society for Healthcare Engineering

SPEAKER: Kelly Galvin, Owner: Organized In Paradise

SUBJECT: "Get Organized for 2005"

EAH again extends their thanks to **Ron Tolleson, Garrett Oguma** and the **Hawaii Society for Healthcare Engineering** for their invitation to join their Christmas luncheon today at the Waikiki Prince Hotel which was attended by 15 EAH members. An excellent buffet luncheon was presented by the Hotel with more choices than room on our large plates. **Kelly Galvin** the featured speaker presented five disorganized personality profiles and nine keys to organization. The profiles were **"The Hopper"**, who hops from task to task without finishing what they start; **"The Perfectionist**

Plus", who doesn't have time to do everything as well as they think it should be done; **"The Allergic to Detail"**, who's impatient with follow through. They can't be bothered with details; **"The Fence Sitter"**: who has trouble making decisions; **"The Cliff Hanger"**: who usually waits until the very last minute to start on a task. The nine keys to organization were **1) Commit to making decisions; 2) Buy less and keep less; 3) Practice being organized; 4) Have a place for everything and everything in its place; 5) Keep items where you use them; 6) Group like and related items together; 7) Use containers and labels; 8) When your life changes, adjust your environment; 9) Keep only things that are useful, beautiful, or you love.**



http://www.geocities.com/hals_us

Officers for 2004

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Vice-President	Erik Kaneshiro
Secretary	Dennis Chong
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Director	David Hatchell
Director	Joanne Williamson
NSPS Governor	Pat Cummins
Past President	Layton Nakao

2005 Annual Hawaii Surveying Conference

Presented By

THE
 HAWAII ASSOCIATION OF LAND SURVEYORS

Thursday & Friday, February 3 & 4, 2005
 Radisson Waikiki Prince Kuhio Hotel
 2500 Kuhio Avenue
 Honolulu, Hawaii

VENDORS DAY

Wednesday, February 2, 2005
 Ewa of McCoy Pavilion
 Ala Moana Regional Park
 Honolulu, Hawaii
 12:00 Noon-5:30 P.M.

ANNUAL BANQUET

Thursday, February 3, 2005
 Radisson Waikiki Prince Kuhio Hotel
 Prince Edward Room
 6:00 P.M.

Featured Presentations on Hawaiian Land Matters, Quiet Title Actions, Expert Court Testimony, Computer Programs for the Surveying Profession, Special Problem Solving, GPS, GIS, and Much More

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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 \$45,735 Academy training; \$56,240 - \$61,045 upon graduation, including locality/availability pay

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www.eng.hawaii.edu/~hspe

2004-2005 HSPE BOARD

President	Riley Smith
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Vice President	Ken Rappolt
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Treasurer	Marc Botticelli
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Honolulu Chapter	Queenie Komori
Maui Chapter	Eric Yamashige
Big Island Chapter	Galen Kuba
Kona-Kohala Chapter	Dan Lanterman

Board Meeting Teleconference Highlights

Wednesday, November 17, 2004

HSPE President's Report – Eric encouraged all HSPE officers to attend the NSPE Winter Meeting. At this point, Riley, Manny and Eric will attend, and Ken and Peter may also go. Eric referred to a recent e-mail indicating that HSPE was trying to stay with the MathCounts program.

Treasurer's Report – Marc's report was briefly discussed. Marc highlighted the new form with a delta column for ease of comparisons. The Board unanimously approved the Treasurer's report, subject to audit.

Standing Committees

Education – Marc noted that two invoices from the attorney handling the 501c3 conversion have been paid. Riley felt the conversion should be completed by the end of this year.

HCES – Ken said HCES's focus is on plans for Engineer's Week 2005. They are still looking for a banquet speaker. Manny noted that the deadline for nominations for Engineer of the Year (EOY) and Young Engineer of the Year (YEOY) is 12/17/04, and that only one application had been submitted so far. An ad has been placed in Wiliki. Manny said the selection committee would be the HSPE President, the Honolulu Chapter President and someone from the University of Hawaii Engineering College. Riley said the committee should meet face-to-face on 12/20/04. This will allow for a final selection by 1/15/05 and publication in the February Wiliki. UH does the selection for Student of the Year. Riley will present the EOY award; Queenie will present the YEOY award.

Government Affairs – Riley mentioned the Legislative Breakfast and suggested HSPE donate \$200 to help sponsor this event. Ken felt we should use our PAC fund for this initiative. The Coalition of Hawaii Engineering & Architectural Professionals (CHEAP) will host the meeting. The board unanimously approved a motion by Eric, seconded by Marc, to expend \$200 for the breakfast. Marc said he will send a check to Mike Street.

Ad Hoc Committee Reports

Engineer's Week – The annual banquet will be on February 26 at the Ala Moana hotel in Honolulu.

Annual Installation Banquet – Plans have been set for this function as well as visits to Maui and Hawaii by Terry Helmlinger, Past NSPE President.

14th Annual HSPE Fund Golf – Manny said

the 2005 event will be sponsored by Norman S. Wright Mechanical Equipment Co. Marites Shoji, VP/Branch Manager with the firm, is the main contact. An initial meeting will be held on 12/7/04...Scott and Barry will probably attend, and maybe Ken.

Chapter Reports –Eric mentioned the HSPE Board meeting to be held on Maui on 2/4/05. Neal asked Eric to please advise on places to stay overnight. Riley highlighted the Kona-Kohala Chapter's initiative to have engineers speak to high school students, and asked for ideas for student field trips. The Big Island Chapter had no October meeting.

Old Business – Riley said the University of Hawaii has cancelled its participation in the TEAMS competition.

New Business – Riley noted difficulties in getting new members and retaining existing ones. He felt people were too busy to network and participate in HSPE activities. A general discussion followed about this dilemma. Not all office holders at the Chapter level are NSPE members. Eric felt the Chapters represent NSPE, and all should be NSPE members. Riley mentioned an e-mail from Bert Saito, Big Island Chapter President, where Bert said some officers are affiliate members...which is not sanctioned by NSPE. Riley noted four possible

approaches: 1) local Chapters should pay for officer's national dues; 2) allow non-NSPE members to hold office, but not send their names in to NSPE; 3) combine the Big Island and Kona-Kohala Chapters and hold meetings in different locations around the Big Island; and 4) drop officers who are not NSPE members. Ken said engineers need to recognize that they are professionals and should act like they are. Riley said the Chapters should be informed of the membership rules. Eric said the second proposal had merit, but only as a stop-gap measure. Eric pointed out that there are some membership brochures available to describe benefits of being an NSPE member, and there is information on the NSPE web site. Riley will respond by e-mail to each of the Chapter Presidents on this matter. On a separate note, Riley mentioned the EIT Grant Program, and questioned whether HSPE should help subsidize this program via UH. There were questions about the cost to make an application to take the EIT. Eric said he would contact James Kobashigawa, Director of the Department of Commerce and Consumer Affairs on this matter.

Riley said the next meeting will be a teleconference on December 14 instead of December 15 at 4 PM.



**Society of American Military Engineers
Honolulu Post Scholarship**

Award: Two \$2,500 scholarships with a 1-year SAME 'Student Member' membership

Eligibility:

- (1) High school senior planning to pursue a full-time undergraduate technical degree at a university with an accredited engineering or architecture program or an Engineering or Architecture Major enrolled at an accredited university
- (2) U.S. Citizen
- (3) Minimum 3.0 GPA (require copy of latest transcript)
- (4) Military affiliation or experience (i.e., SAME member or dependent, military dependent, Junior ROTC or ROTC) not required, but given preference

Requirement: Submit application information (below) with transcript and the following documents typewritten and double-spaced:

- (1) Resume of work experience, academic and extra-curricular accomplishments (one page maximum).
- (2) Essay (one page maximum) written around an engineering or architecture theme and its impact on society and the nation's defense/homeland security.

Mail To: LCDR Dustin Hamacher
USCG Naval Engineering Unit Honolulu
Attn: SAME Scholarship Committee
Sand Island Road
Honolulu, HI 96819-4398

Deadline: Postmark by 15 March 2005

For Further Information: Lieutenant Commander Hamacher, (808) 843-3871

Application Information: (Typewritten)

Name: _____ Citizenship: _____
 Home Address: _____ City _____ State _____ Zip _____
 Phone: _____ E-Mail (if any): _____
 School: _____ Major: _____ Student Number: _____
 GPA: _____ Student Status: Undergraduate _____ Graduate _____ (Check Applicable)
 Full Time Student: Yes _____ No _____ Anticipated Graduation Date: _____
 Military Experience/Affiliation: _____ SAME Affiliation: _____

FIRST ANNUAL 2005 MASONRY & CONCRETE EXPO OF THE PACIFIC - JUNE 23-25, 2005 at the HAWAII CONVENTION CENTER

Hawaii will be holding a three-day Masonry & Concrete comprised of technical sessions and a two-day Expo. The event offers an invaluable opportunity for networking with professionals from the U.S. and around the globe. Target attendees to the Expo would include: Design Professionals; Developers; Engineers; Contractors; Government Agencies; Property Managers; Craft workers; Retails/Suppliers; and Building Professional/Consultants.

The Expo's conference theme is: **"Kapili I Na Pohaku Pa'a"**, "Build/Mend/Repair Stone Solid." The focus of the Expo is to increase the knowledge and awareness of the masonry and concrete trades and materials; to expand the network of the industry contracts; and to offer opportunities to interact with potential buyers and professionals.

The Expo will also feature: 15th Annual & 8th Invitational Hawaii State Apprenticeship Contest and the Western State Brick & Tile Contest; Exhibitors of building materials, tools and supplies; demonstrations and workshops; and Professional Development Seminars. The Hawaii Convention Center will be the site of the first building and construction show focused on masonry & concrete construction. This would include the mason, cement finishing, plastering and ceramic tile/stone trades and construction and its affiliates.

Input and recommendations from trade organizations, industry professionals and material dealers/suppliers for technical session presentations/topics/speakers are presently being solicited. Please contact: Wayne Kawano, Cement and Concrete Products Industry of Hawaii at 848-7100 or email: wkawano@ccpi-hawaii.org.

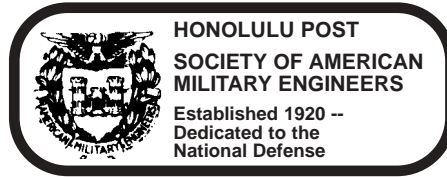
The Expo Committee calls upon industry professionals to exhibit their products and services. Exhibitors are now being solicited for this event. Please contact: Annie Kuhlmann, Exhibition Committee Chairperson at 838-7988 or email: annie@miyakeconcrete.com.

Admission to the exhibits and mini-workshops are free. There will be a registration fee for special seminars. The minimum square footage is 100 square feet (10'x10'). Larger booth spaces are configured in multiples of 10'x10'. All booths are assigned on a first-come-first-serve basis. The standard 10'x10' booth is \$950. Payment in full is due on April 1, 2005.



2004-2005 OFFICERS

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



P.O. Box 31218; Honolulu, HI 96817
<http://posts.same.org/honolulu/>

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 Secretary
 Maj Randy Whitecotton (PACAF) USAF
Randy.Whitecotton@hickam.af.mil 448-4427
 Treasurer
 LT James Cho (PWC) USN
James.Cho@navy.mil 221-2052

MEETING NOTES (14 Dec 04)

- Attendance included 60 sustaining member(SM), AF, Navy and Army officers, enlisted, and civilians.
- EA Engineering, Science & Tech Inc. pre-

sented the SM 5-min brief on their services and capabilities.

- USCG Adm Wurster spoke on the Coast Guard's role in Homeland Security. Topics discussed included:
- Homeland Security (H.S.) improvements since 9-11 for both National and Hawaii maritime zones.
- Role of Coast Guard in the Dept of Homeland Security.
- Construction, infrastructure, communication, and fleet improvements nationally and locally since 9-11.
- How the USCG plays a pivotal role with other federal, state, and local agencies through civil-defense coordination task forces and councils.
- Age of the Coast Guard fleet and infrastructure- Improvements underway currently.
- Post officers presented updates on old and new Post business: Scholarships drive, annual golf tourney to raise scholarship funds, and Youth programs (GEMS, Science Fair, Design/Construction Project at Moanalua HS).
- Next month's meeting will feature Lt Gen Strock, Chief of Engineers, US Army Corps of Engineers; will be held at 1130 at the Hale Ikena on Tues, 11 Jan 05. Contact Major Randy Whitecotton to RSVP.



The Society of American Military Engineers, Honolulu Post

Invites you to join us for the

2005 ENGINEER'S WEEK KICK-OFF LUNCHEON

Presentation: University of Hawaii Civil Engineering Research Park

Speakers: Dr. Wai-Fah Chen, Dean College of Engineering, University of Hawaii
 H. Ronald Riggs, Professor of Civil Engineering, University of Hawaii
 Ian Robertson, Professor of Civil Engineering, University of Hawaii

Hale Koa Hotel, Banyan Tree Showroom
 Tuesday, February 22, 2005 at 11:30 AM
 Luncheon Cost: \$24.00 (Student Cost: \$19.00)

(Public parking available at Ft. DeRussy)

RSVP BY 15 FEBRUARY 2005.

SEND THIS FORM AND PAYMENT TO:

Society of American Military Engineers, Honolulu Post
 c/o Warren Hall
 EA Engineering, Science, and Technology
 1221 Kapiolani Blvd. Suite 1030
 Honolulu, HI 96814

(Make checks payable to Society of American Military Engineers)

Name: _____

Organization: _____

Address: _____

Phone: _____ Number in Party: _____

Receipt required: Yes _____ No: _____ LUNCH: Warrior Buffet



**AN ORDER OF
THE ENGINEER RING CEREMONY
WILL BE HELD
AT THE 2005 ENGINEERS WEEK BANQUET
FEBRUARY 26, 2005 AT 5:00 P.M.
AT THE ALA MOANA HOTEL**

The Hawaii Council of Engineering Societies invites you to participate in the Order of the Engineer Ring Ceremony to be held preceding the Engineers Week Banquet. This is an optional event and participants are welcome to attend the Banquet after.

The Order of the Engineer was initiated in the United States to foster a spirit of pride and responsibility in the engineering profession, to bridge the gap between training and experience, and to present to the public a visible symbol identifying the engineer. The first Ring Ceremony was held on June 4, 1970 at Cleveland State University. Others like it have since spread across the United States at which graduate and registered engineers are invited to accept the Obligation of the Engineer and to wear a stainless steel ring.

The Ring Ceremonies are conducted by Links (local sections) of the Order, of which the American Society of Civil Engineers (ASCE) is one. On April 15, 2004, 75 people participated in the first Ring Ceremony held in Hawaii. More information on the Order of the Engineer can be found at www.order-of-the-engineer.org.

Any engineer is eligible for induction into the Order of the Engineer if he or she has graduated from an ABET-accredited engineering program or holds a license as a Professional Engineer. Students enrolled in ABET-accredited engineering degree programs are eligible if they are within two academic terms of graduation. Guests are welcome to witness the induction ceremony.

Participants at the Engineers Weeks Banquet Ring Ceremony will take the Obligation of the Engineer and receive a stainless steel ring. The cost for the Ring Ceremony will be \$17.50. A registration form for the Ring Ceremony is attached. To assist in determining your ring size, a ring sizing chart is available from the HCES website at www.hces.us.

For additional information on the Ceremony, please contact: Westley Chun, HCES Vice Chair, at 488-0477 or wkcchun@engrsol.com.



Order of the Engineer Ring Ceremony

2005 Engineers Week Banquet
February 26, 2005 at 5:00 p.m.
Ala Moana Hotel

Sponsored by the
American Society of Civil Engineers (ASCE)
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ASCE Hawaii Section, and
Hawaii Council of Engineering Societies

Name: _____
(to be printed on certificate for participants only)

Professional Credentials: P.E. P.L.S. E.I.T.
(to be printed on certificate for participants only)

Mailing Address: _____
(needed for participants only)

Ring Size: _____ (fifth finger of your writing hand)
(needed for participants only – form for measuring ring size is available on the HCES website at www.hces.us)

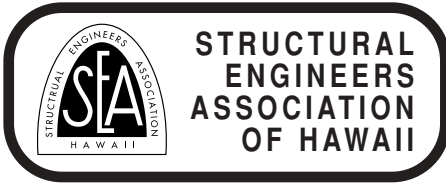
I attest that I am eligible for induction into the Order of the Engineer by merit of:

1. having graduated from an ABET-accredited engineering program, or
2. holding a license as a Professional Engineer, or
3. being enrolled in an ABET-accredited engineering program and within two academic terms of graduation.

signature date

Registration Fee: \$17.50 per initiate (includes ring and certificate)

Fee is payable via cash or check. Please make check payable to "HCES." Mail completed form with payment to Erik Kaneshiro, HCES Treasurer, c/o Austin, Tsutsumi & Associates, 501 Sumner St, Suite 521, Honolulu, HI 9617. Registration forms with payment must be received by February 15, 2005.



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

OFFICERS & DIRECTORS

Position	Officer	Phone	Fax
President	Randy Chu	373-7950	373-7950
Vice Pres	Beverly Ishii-Nakayama	942-9100	942-1899
Secretary	Shawn Matsumoto	597-8555	597-8559
Treasurer	Jonathan Murai	533-2210	533-2686
Director	Ibbotson Kellet	540-1030	526-1989
Director	Les Nagata	951-5916	941-6489
Director	Wayne Kawano	848-7100	848-2626
Director	Dean Doi	955-4441	942-2027
Past Pres	Tom Tanimura	536-7692	537-9022

HIGHLIGHTS OF BOD MEETING

01 December 2004

Previous Business:

Complex Code Report Correction: The Board would like to clarify that Dennis Hanatani was inadvertently noted to submit the final report titled, "Structural Engineering with Complex Codes and Standard, September 2004, Ad-Hoc Committee on Structural Engineering Practice" to the Board. The Board would like to express that the final report is a product from the Ad-Hoc Committee on Structural Engineering Practice consisting of Randy Chu, Dennis Hanatani, Roy Yamashiro, Tom Tanimura, Les Nagata, Glenn Miyasato, and Clayton Wong. After the Ad-Hoc Committee completed the final report, they submitted the final report to the Board. The Board thanks all of the committee members for

CEMENT & CONCRETE PRODUCTS INDUSTRY OF HAWAII SELECTS NEW 2005 CHAIRMAN AND OFFICERS

The new 2005 officers and executive board of the Cement and Concrete Products Industry of Hawaii (CCPI) were elected at CCPI's 40th annual meeting held at the Kauai Marriott Resort. The new Executive Board took office January 1, 2005.

The new officers are: Chairman – Brian Deer, Bonded Materials; Vice Chairman – Michael Coad, Hawaiian Cement; Secretary - Eric Yoshizawa, Ameron Maui; Treasurer – Tom Arnott, Jas W. Glover, Ltd.; Coordinator/ Neighbor Islands – Frederick K. Wong, Walker Industries; and Past Chairman – Jeffrey Ching, Hawaiian Cement. In addition, Wayne Kawano, CCPI President, will continue to promote CCPI in marketing and technical resource activities.

Established in 1965, Cement and Concrete Products Industry of Hawaii promotes the use of concrete and masonry products and provides technical assistance to the industry. CCPI, a 31 member organization, provides Hawaii's designers and contractors with services such as technical consulting, educational seminars, a research library, and the American Concrete Industry certification programs.

their hard work.

Complex Code Report: Randy Chu will draft a cover letter for the final report submitted by the Ad-Hoc Committee on Structural Engineering Practice. Randy Chu will distribute the cover letter to the Board and the Ad-Hoc Committee for review. The Board will review the final report once more to provide edits as required and discuss at the next Board meeting.

The 2004 Board of Directors would like to announce the 2005 Board of Directors Elect: Beverly Ishii-Nakayama, President; Bennett Fung, Vice President; Dean Kokubun, Secretary; Garett Muranaka, Treasurer; Dean Doi, Wayne Kawano, Ibbotson Kellett, and Paul Morimoto, Directors. Congratulations to the 2005 Board of Directors Elect. The Board would also like to extend their appreciation to all of the candidates that ran for these highly coveted positions.

Reference Library: Randy Chu and Ibbotson Kellett have a list of reference materials they will review and then present to Rupert Chun. In addition, Ibbotson Kellett will provide the price of each suggested reference material along with list.

New Business:

The Board voted to accept Zi Hong Ou as a new Allied Member.

2005 Calendar of Events:

January 5, 2005 11:30 a.m., Joint meeting with 2004 Board of Directors and 2005 Board of Directors elect at Willows Restaurant.

January 29, 2005: SEAHO Installation of 2005 Officers and Directors at the Honolulu Country Club.

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ACI CONCRETE FIELD TECHNICIAN PROGRAM—GRADE I CERTIFICATION

Sponsored by the Cement and Concrete Products Industry of Hawaii

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

Session I Classroom Training: Jan. 25 (Tues), and Jan. 27, 2005 (Thurs), from 4:30 pm to 7:30 pm at CCPI office, 2153 N. King Street, Suite 327, Honolulu, Hawaii.
Performance Practice Session: Jan. 29, 2005 (Sat), from 8:00 am to 12 noon at Hawaiian Cement – Halawa, 99-1300 Halawa Valley Street, Aiea, Hawaii.

Session II Examination only: Feb. 26, 2005 (Sat), from 7:00 am to 1:00 pm (specific times to be announced). Location will be Hawaiian Cement – Halawa.

Session I: Registration is \$150 per person and includes Classroom Training and Performance Practice Session, ACI Technician Workbook and Manual.

Session II: Examinations only. Full Exam (written/performance) \$185. Re-take for written exam only, \$100. Re-take for performance exam only, \$125. Class size is limited to 12 people. All fees must be received prior to the session date you are attending, no exceptions.

For additional information or to register, call CCPI at 848-7100





2004-2005 ASCE Hawaii Section Executive Committee

Office		Phone	FAX
President	Keith Niiya	533-3646	526-1267
	email: kniiya@atahawaii.com		
PresElect	Walter Billingsley	846-3232	538-7819
	email: wbillingsley@beltcollins.com		
Vice Pres	Lori Fong	531-7094	528-2368
	email: lfong@ascehawaii.org		
Secretary	Phillip Ooi	956-8512	956-5014
	email: ooi@willki.eng.hawaii.edu		
Treasurer	Ron Iwamoto	454-2348	454-2997
	email: ron@iwamotollc.com		
Past Pres	Westley Chun	488-0477	488-3776
	email: wkcchun@engrsol.com		

JANUARY DINNER MEETING

Program: Act 51 requires the transferring of personnel and resources associated with the repair, maintenance and capital improvements of State Department of Education (DOE) facilities from the State Department of Accounting and General Services to DOE by July 1, 2005. Russ Saito, Comptroller and Director of DAGS, will provide an update on what we should know and expect from this transfer. With DAGS' eight divisions and seven attached agencies, Mr. Saito's responsibilities include accounting, auditing, archives, fleet and parking management, facility management, project and construction management, surveying, the State's data center, IT resource management, and telecommunications support.

Date: Thursday, January 20, 2004 (tentative)

Location: Maple Garden Restaurant, Isenburg Street (Note Revised Location.)

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

Cost: \$22.00 for Hawaii Section members
\$25.00 for non-section members and guests
\$11.00 for University of Hawaii at Manoa Student Chapter members

Please make checks payable to ASCE-Hawaii Section and mail to Ron Iwamoto, ASCE Treasurer, c/o Iwamoto & Associates, LLC, 98-029 Hekaha Street, Suite #37, Aiea, Hawaii 96701, postmarked by Monday, January 17, 2005. Reservations for the dinner meeting to Ron Iwamoto by Monday, January 17, 2005, by phone at 486-5202, fax at 486-5206 or email at ron@iwamotollc.com.

EXECUTIVE COMMITTEE MEETING

January 6, 2005

UPCOMING CALENDAR OF EVENTS

subject to change)

1) A design-build workshop will be held on January 26 and 27, 2005, in conjunction with American Public Works Association, American Council of Engineering Companies of Hawaii, and the Local Technical Assistance Program.

2) An Engineer's Ring Ceremony is being planned for the Engineer's Week Banquet on February 26, 2005. The Engineer's Ring Ceremony is the public induction of candidates into the Order of the Engineer. The Order is the roster of engineers in the United States who have participated in an Engineer's Ring Ceremony and who have publicly accepted the "Obligation of an

Engineer." During the Ceremony, candidates formally accept the Obligation of an Engineer and receive a stainless steel ring to be worn as a symbol of recognition of membership in the Order of the Engineer.

The Obligation of an Engineer is the formal statement of an engineer's responsibilities to the public and to the profession. The Obligation includes a pledge to practice integrity, fair dealing, tolerance, and respect, and to uphold devotion to the standards and dignity of the profession, conscious always that an engineer's skill carries with it the obligation to serve humanity by making the best use of Earth's precious wealth.

Any engineer who has graduated from an ABET-accredited engineering program or holds a license as a Professional Engineer is eligible for induction into the Order of the Engineer.

There will be a \$17.50 charge for participation in the Ceremony to cover the cost of the ring and certificate. Additional information on registration for the Ceremony will be forthcoming. Additional information on the Order of the Engineer and the Engineer's Ring Ceremony is available at <http://www.asce.org/professional/ethics>.

ASCE HAWAII SECTION STUDENT SCHOLARSHIPS

Please help us increase our scholarship endowment so that we can recognize those deserving students. We continue to accept tax-deductible donations with the goal of establishing a second annual scholarship. Make your check payable to 'ASCE Hawaii Section' and mail to ASCE Scholarship Committee, P.O. Box 917, Honolulu, HI 96808. If you have any questions, please contact Westley Chun at 488-0477, or wkcchun@engrsol.com.

ASCE JOB LISTINGS

The following employers have openings they would like to fill:

- Austin Tsutsumi & Associates, Inc. (Civil, Traffic/Transportation, Environmental and Surveying - Honolulu and Wailuku)
- Board of Water Supply (Chief Capital Projects Officer - Honolulu)
- CH2MHILL (Water Engineer - Honolulu)
- Engineering Solutions, Inc. (Civil/Environmental Engineers - Honolulu)
- Fewell Geotechnical Engineering (Geotechnical Engineer - Honolulu)
- Fukunaga & Associates (Civil and Civil/Environmental Engineers - Honolulu)
- Hawaii Pacific Engineers (Civil and Civil/Environmental Engineers - Honolulu)
- Hida, Okamoto & Associates, Inc. (Civil Engineer - Honolulu)
- Maui Land & Pineapple Co. (Director, Land and Water Asset Management - Kahului)
- Warren S. Unemori Engineering (Project and Civil Engineers - Wailuku)

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

MEMBERSHIP DRIVE

ASCE counts on our members to help us grow every year by actively participating in the Member-Get-A-Member Drive. The drive is now year-round and offers great new prizes, such as cash rewards, gift certificates, digital cameras, personal digital assistants, LCD TVs and more. For most prizes, all you have to do to be eligible to win is refer a colleague. This is a great time to help out your colleagues while also helping ASCE find new members. Take a



**Engineer's Week 2005
CALL FOR EXHIBITS**

by the Hawaii Council of Engineering Societies



Your company/organization is encouraged to create a display that will increase public awareness and appreciation of the engineering profession. In the past, displays have included posters, 3-D models, and interactive systems.

- Exhibits will be displayed at Kahala Mall Shopping Center
- Exhibition period will occur from Monday, February 21, 2005 through Sunday, February 27, 2005
- Entries will be judged on presentation, technical merit and promotion of the engineering profession
- An award will be presented for each of the above categories at the Engineer's Week banquet on Saturday, February 26, 2005.

The deadline for completing the information in this form is January 21, 2005.

Fax or E-mail completed form to Cheryl Yoshida at 945-7213 or cyoshida@ch2m.com

Name of Company/Organization: _____

Contact Person: _____

Phone No.: _____ Fax No.: _____ E-mail: _____

Representative at Banquet (February 26th) _____

(Dinner Fee Required)

Please attach a one to two paragraph summary describing your display (size and content). Also, indicate any special needs that your display may require (i.e. table, electricity). You will be contacted to confirm the availability of the requested items.

Tentative Schedule for Set-up is Monday (2/21) before 10 am, and Dismantle Sunday (2/27) after 5 pm or Monday (2/28) before 10 am.

minute to think about the people in your professional life who could benefit from membership. Visit www.ASCEDrive.org to refer them and you could be a winner in the next drawing! Please contact our membership chair, Lori Nishida, at 533-3646 or lnishida@atahawaii.com for further information.

Membership Renewal

From this month's member data, ASCE has dropped any member not renewing their membership for fifteen (15) months. These members, who have not paid their 2003 dues, will no longer be included in our membership counts or on our membership data. This will greatly affect the standing of our Section, since standings are based on total membership. The total membership consists of new and retained members. If you have let your ASCE membership lapse and have not renewed, you may have been affected. Please contact our membership chair, Lori Nishida, at 533-3646 or lnishida@atahawaii.com for further information.

CONVERTING TO ELECTRONIC VERSION OF WILIKI

If you would like to help the ASCE Hawaii Section reduce operating costs by receiving your monthly issue of the Wiliki via e-mail, please contact Joanna Seto at 586-4329 or jseto@ascehawaii.org.

APPROVED FY 2005 BUDGET*

Income Categories	FY04 Actual Income	FY05 Budget Amount
Section Dues	\$ 10,730.00	\$ 10,400.00
Society Allotment	\$ 3,645.54	\$ 3,000.00
Interest	\$ 89.50	\$ 0.00
Dividend Income	\$ 2,335.09	\$ 0.00
Contributions to Section	\$ 3,665.00	\$ 600.00
Grants	(\$ 39.87)	\$ 0.00
Advertising Income	\$ 2,616.77	\$ 2,000.00
ASCE Conferences**	\$ 5,962.27	\$ 2,000.00
Educational Courses	\$ 6,332.16	\$ 0,000.00
Total Income	\$ 35,336.46	\$ 18,000.00
Expense Categories	FY04 Actual Expense	FY05 Budget Amount
Dinners & Luncheons	\$ 1,044.52	\$ 0.00
ASCE Conferences	\$ 0.00	\$ 500.00
Miscellaneous	\$ 440.46	\$ 0.00
Donations from Section	\$ 200.00	\$ 300.00
Stationary & Supplies	\$ 0.00	\$ 50.00
Postage	\$ 335.31	\$ 500.00
Newsletter	\$ 2,742.05	\$ 3,600.00
General Printing	\$ 43.30	\$ 50.00
Meetings	(\$ 1,767.24)	\$ 0.00
Younger Member Forum	\$ 704.71	\$ 1,950.00
Student Chapter	\$ 1,650.00	\$ 1,500.00
Official Travel	\$ 6,941.72	\$ 5,100.00
Committee Expenses	\$ 39.38	\$ 1,600.00
Awards & Prizes	\$ 1,527.10	\$ 2,850.00
Total Expenses	\$ 13,901.31	\$ 18,000.00
Net Income (Expenses)	\$ 21,435.15	\$ 0.00

Notes:

* Reported values and budget include YMF income, expenses, and budget.

** The income amount for ASCE Conferences reflects approximately \$1,092.50 due to each of three co-sponsoring organizations paid after September 30, the end of the fiscal year. After final payments to co-sponsoring organizations, the net income for ASCE Conferences is \$2,684.77 and total net income is \$18,157.65.

KNOW YOUR ASCE HISTORY

by C.S. Papacostas

Having purchased in 1985 its competitor's assets (including the 1600-ton inter-island barge "Punapau") from the California-based Kaiser Cement Corp., the once again renamed Hawaiian Cement Co., a joint venture of Connecticut-based Lone Star Industries and Australian-based Adelaide Brighton Cement Holdings arose as the sole cement manufacturer in the State. To be sure, small amounts of portland cement and clinker had always been imported from places such as Japan and Denmark, according to statistics published by "The Minerals Yearbook" (M.Y.), but Hawaiian Cement emerged as the principal source. The company proceeded to expand its concrete and aggregate business as well. In "Selected Foreign Commercial Activities," the State's Dept. of Business Economic Development and Tourism (DBEDT), reported that purchases of M. Funes Concrete and Maui Concrete & Aggregates marked Hawaiian's first foray into the neighbor island markets for these materials.

As I mentioned last month, Lone Star sought Bankruptcy Court protection in December 1990. Only a month after that, John Shin of Hawaiian Cement (a 1977 University of Hawaii alumnus whom I remember as a student, by the way!) informed the Honolulu Advertiser (HA) that the company was planning a capacity expansion from 250,000 to 400,000 tons and a significant importation of clinker to meet the demand of another building boom.

On the energy side, in 1993 the facility used about half of O'ahu's discarded tires as part of its fuel supply.

In 1995, Lone Star sold its 50% share of the company to Knife River Corp. (KRC), a subsidiary of North Dakota based MDU Resource Group. That was when, according to M.Y., "the only permanent closure during the year was at Hawaiian Cement, which shut its kiln down at the end of August. The facility continued to operate as a grinding plant for imported clinker."

Two years later, in 1997, Adelaide Brighton also sold its 50% ownership to KRC. Interestingly, M.Y. noted that "the purchase of Hawaiian Cement and Riverside Cement were departures from the trend begun in the 1980s of foreign companies buying US cement plants."

Directly, the new owner announced plans to shift from grinding to importing the finished powder within two years. "It is a fact of life that manufacturing anything in Hawaii is expensive," Hawaiian Cement president John DeLong conceded to

the Honolulu Star-Bulletin (S-B). Regrettably, the move also meant "exporting Hawaii jobs overseas," DeLong was quoted to have said. Verily, in two years' time, the June 23 1999 Bulletin of the State's Office of Environmental Quality Control (OEQC) informed the general public that "Hawaiian Cement is proposing to construct and operate a cement import and transshipment terminal at Kalaeloa/Barbers Point Harbor...This facility will replace Hawaiian Cement's existing clinker grinding, storage, and distribution facility at Campbell Industrial Park."

Using an innovative "Airform," construction of two 30,000-metric ton Monolithic Domes by the Idaho-based Dome Technology firm began in April 2000, the year, S-B said, when Hawaiian Cement "imported 320,000 metric tons of cement, sand and other materials from countries including China, Thailand and Australia."

The two super-insulated, steel-reinforced, thin-shelled concrete silos officially opened in 2001 and the grinding plant was closed in September of that year. As a result, the Machinery & Equipment Co. of Brisbane, California advertised the "liquidation of two cement plants" and the availability of "equipment from the Hawaiian Cement Company Nanakuli, Oahu and Barbers Point, Oahu plant sites."

(continued on page 10)

ASCE YMF see page 10

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2004-2005 YMF OFFICERS

		Phone
President	Paulette Chang <i>Hawaiiymf@yahoo.com</i>	781-1187
Vice-Pres	Scott Jennings <i>sjennings@rci-group.com</i>	845-8440
Secretary	Florence Ching <i>fching@ascehawaii.org</i>	472-1342
Treasurer	Laura Smolinski <i>Smolinski001@hawaii.rr.com</i>	382-7174
Student Chapter President	Jesse Elliot <i>Elliotj@hawaii.edu</i>	956-5808

Next YMF General Meeting

The next two YMF general meetings are scheduled for Tuesday, January 4, 6:00 p.m., at Dave & Busters, Ward Entertainment Center, 589-2215; and Tuesday, February 1, 6:00 p.m., at Stuart Anderson's Cattle Company Restaurant, along Kaahumanu St. in Pearl City, 487-0054. If you are interested in attending to find out what the YMF is all about and how much fun we have, please call Paulette Chang at 472-1450.

YMF November Social – University of Hawaii Volleyball Game

By Lisa Takushi, Hawaii Section YMF Member

On Friday, November 12, 2004, ten YMF members along with their friends enjoyed a night of good food and drinks at Magoo's Pizza and an exciting game of University of Hawaii volleyball at the Stan Sheriff Center. The second-ranked University of Hawaii Wahines continued on their winning streak, defeating the San Jose State Spartans (30-18, 30-27, 30-25).

2004 ASCE YMF Edmund Friedman Award

The Hawaii Section YMF would like to congratulate Lorna Heller for receiving this year's Edmond Friedman award. Lorna received her award at this year's ASCE National Convention in Baltimore this past October. This award was established in 1972 to recognize the professional contributions of younger members of the Society. Award nominees are selected for this award based on their professional achievement by the degree to which they have (1) served to advance the profession; (2) exhibited technical competence, high character, and integrity; (3) developed improved member attitudes toward the profession; and (4) contributed public service outside of their professional careers. Congratulations Lorna!

Spring 2004 PE Refresher Course

The ASCE Hawaii Section YMF is holding its Spring 2004 PE Refresher Course. The Spring 2005 PE Exam Refresher Course consists of ten three-hour sessions on Saturday mornings (and afternoons if demand is great enough). The classes will be held from January 22, 2005 to March 26, 2005, from 9:00 a.m. to 12:00 p.m. Location to be announced. Topics covered include Environmental, Geotechnical, Structural, Transportation, and Water Resources. Cost: \$300 Early Registration Fee for ASCE Members (parking is included in the fee) \$375 Early Registration Fee for Non-ASCE Members (parking is included in the fee). Early Registration Deadline is December 31, 2004.



Photo: 2004 Recipients of Edmund Friedman Young Engineer Award for Professional Achievement (L to R): William Henry (ASCE National President), Lorna Heller (Award Recipient - Hawaii Section), Carol Ellinger (Award Recipient - Houston Branch, Texas Section), Payam Khashahee (Award Recipient - Dallas Branch, Texas Section), Jennifer Tsien (Award Recipient - East Central Branch, Florida Section), Tiffany Adams (Award Recipient - Seattle Section), Patrick Natale (ASCE National Executive Director).

Add \$25 late fee to registration fee if payment is postmarked or delivered after December 31, 2004. Class size is limited and registration is done on a first-come first-served basis. For more information please visit: <http://www.asce-hawaii.org/ymf/PErefresher.html> or contact Ms. Lorna Heller at (808) 748-5944 or lheller@hbws.org.

ASCE Job Classified

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

ASCE History (continued from page 9)

The opening of the bulk storage structures near the newly expanded commercial harbor marked a return to total dependence on the global cement market. With this reliance comes a need to harmonize (or, is it "harmonise?") weights, measures and standards. Indeed, when reporting large amounts of cement, the U.S. nomenclature had already moved from "barrel" (the common industry unit in 1900), to "short ton" in 1972 and to "metric ton" (or "tonne," not to be confused with "long ton") in 1991.

Since 1960 when two plants opened on Oahu, the "local" cement manufacturing industry experienced a wild rollercoaster ride of boom and bust cycles, labor disputes, and natural as well as humanly induced events. The rollercoaster metaphor proved true in another sense as well: From the meteoric heights attained in the 1980s, "local" cement production gradually and inexorably declined to a halt.

Nevertheless, a new day has dawned. With state-of-the-art facilities in place, the industry has moved to another plateau.

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>.

Engineering

Contributed by Sam Gillie

"It is a great profession. There is the fascination of watching the figment of the imagination emerge through the aid of science to plan on paper. Then it moves to realization in stone or metal or energy. Then it brings jobs and homes to men. Then it elevates the standards of living and adds to the comforts of life. That is the engineer's high privilege.

The great liability of the engineer compared to men of other professions is that his works are out in the open where all can see them. His acts, step by step, are in hard substance. He cannot bury his mistakes in the grave like the doctors. He cannot argue them into thin air or blame the judge like the lawyers. He cannot, like the architects, cover his failures with trees and vines. He cannot, like the politicians, screen his shortcomings by blaming his opponents and hope the people will forget. The engineer simply cannot deny he did it. If his works do not work, his is damned. That is the phantasmagoria that haunts his nights and dogs his days. He comes from the job at the end of the day resolved to calculate it again. He wakes in the night in a cold sweat and puts something on paper that looks silly in the morning. All day he shivers at the thought of the bugs which will inevitably appear to jolt his smooth consummation.

On the other hand, unlike the doctor, his is not a life among the weak. Unlike the lawyer, quarrels are not his daily bread. Unlike the soldier, destruction is not his purpose. To the engineer falls the job of clothing the bare bones of science with life, comfort and hope. No doubt as years go by, the people forget which engineer did it even if they ever knew. Or some politician put his name on it. Or they credit it to some promoter who used other people's money.... But the engineer himself looks back at the unending stream of goodness which flows from his successes with satisfactions that few professions may know. And the verdict of his fellow professionals is all the accolade he wants."

Herbert Hoover

US mining engineer & politician; Secretary of Commerce 1921-1928; 31st president of US 1929-1933; Republican presidential candidate 1932.



Waiakea Girls team presents their ROV, the Squatbot, for safety inspection.



Crowds gather as Sacred Hearts Academy's ROV pilots execute the mission.

Moanalua, Waipahu tops in Hawaii Underwater Robot Challenge

The second annual Hawaii Underwater Robot Challenge (HURC) was held at the University of Hawaii's Duke Kahanamoku Aquatic Complex on December 5th, 2004. Fourteen teams – well over 100 students - from high schools throughout the state had their robots prepared for seven challenging tasks in the "Northwestern Hawaiian Islands Coral Reef Ecosystem Reserve". Using the video camera mounted on their Remotely Operated Vehicle, or ROV, students could earn up to 100 points by:

a) Surveying a grid of sea bottom, recording

plant and animal life and manmade objects.

b) Installing a "sensor package" in a specific location.

c) Locating, mapping, and recovering both a "fish" and a "crustacean".

d) Opening one valve and closing another

e) Flying their ROV inverted for at least five seconds.

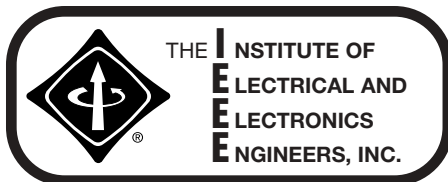
Team scores were also based upon research and technical reports completed before the competition day, and a poster and presentation given before their mission in the pool. The highest score possible for the reports and presentations was 145 points

As was the case last year, teams were grouped into two divisions, "Sharks", using simple switches to control their ROVs, and "Dolphins", with electronic proportional control systems. Waipahu continued to score at the

top of Dolphin division, with first place going to the Almos' Pau team with 203.75 points; Almos' Pau also took highest mission score honors. Moanalua moved up from second place in Shark division last year to finish first, with team Poi Dogs earning 148.35 points, including 78 points for best engineering presentation. This year's HURC competition was recognized as a regional for the Marine Advanced Technical Education (MATE) Center's national ROV competition, so these top teams now have qualified for the national event, to be held next June at Johnson Space Center in Houston, Texas.

Dolphin second place went to Waipahu's VIPs team with 173.25 points; the Big Island was well represented in Shark division, with Waiakea's Girls team finishing second with 140.25 points, best poster, and highest combined communication score for all non-mission elements. The Sacred Hearts Academy

(continued on page 14)



IEEE Hawaii Section

P. O. Box 37607 Honolulu, Hawaii 96837
Email: sec.hawaii@ieee.org
Web Page: <http://community.hei.com/ieee/>

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Project Management: Executing, Controlling, and Closing Projects (S07497)

Feb 19 • Sat • 8:00am-5:00pm • 1 mtg • UH-Downtown, Pioneer Plaza (Suite 10) • \$325

Microsoft Project: Building and Managing Projects on MS Project (S07521)

Mar 5 • Sat • 8:00am-3:00pm • 1 mtg • TeraBiz, 1149 Bethel St. (Suite 701) • \$220

Project Management Professional (PMP) Exam Preparation Program (S07520)

Mar 18-19 • Fri • 5:30-9:30pm • Sat • 8:00am-5:00pm • 2 mtgs • UH-Downtown, Pioneer Plaza (Suite 10) • \$645

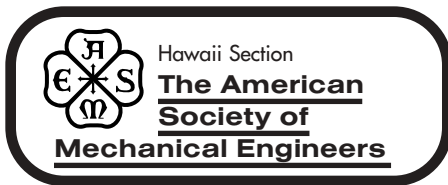
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Website: www.sections.asme.org/hawaii

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HCES Rep	James Grogan	254-2947

HAWAII SECTION GENERAL MEETING

Date: Tuesday, January 4, 2005
 Time: 5:30 p.m. to 6:30 p.m.
 Place: Hawaiian Electric Company, Inc.
 Ward Avenue Cafeteria

Program: Continue planning for ASME's 125th Anniversary. The Officers and Directors of ASME-HI look forward to seeing new and familiar faces. Lots of free pizza and pop are always provided. Please contact Ray Liu or Sam Gillie for directions and for more information.

DECEMBER 7th SECTION MEETING HIGHLIGHTS

On this day traffic was at its usual worst. At about 4:00 p.m. the Ewa bound traffic on the airport viaduct was backed up all the way to the Dillingham and Nimitz entrances. This horrible condition was apparently caused by earlier accidents and stalled vehicles on the H1. Traffic was also pretty bad heading towards the HECO Ward Avenue Facilities. Although 18 members and guests had planned to attend our meeting, we were lucky to have 10 members and guests at the meeting. The Section welcomed Kathleen Ganiko-Orlowski and Glen Bran Lukens.

Attending this meeting were University of Hawaii at Manoa Mechanical Engineering Department Student Advisor, Dr. Mehrdad G. Nejhad, and the Student Section Chairman, David Katsuda, Vice-Chairman, Blake Sato, and Treasurer, David Narahara. The Student Section plans to participate in the Engineers Week Exhibits, is interested in joining our future tours, and any activities pertaining to job opportunities in Hawaii. The students will be participating in the January 28, 2005, Engineering Expo at the University. They will be constructing a rocket and launch pad for the Bottle Rocket Competition. Senior Section volunteers are welcome to participate.

Dr. Nejhad announced that there would be a Francis Rhodes Montgomery Design Competition on May 6, 2005. An ABET Advisory Committee meeting will be scheduled for late March or early April 2005.

ASME'S 125th ANNIVERSARY ACTIVITIES REMINDER

Log onto www.asme.org/anniversary for up-to-date information on events for ASME's 125th anniversary.

Events that are scheduled to take place in 2005 so far:

(continued on page 15)

1880 TO 2005 - CELEBRATING THE 125TH ANNIVERSARY OF THE ASME

Imagine our everyday life without the "necessities" that help get us thru the day, allows us to be more productive in the things we do, keeps our country safe and drives the world economy to what it is today. Without it, our way of life would be very different to say the least. Of course, these "necessities" help us do more than that described above, and allows us to function as civilized human beings and helps to make the world a better place. What are these "necessities?" The products, services and in particular, the creative ideas of individuals working in a great and prestigious profession – mechanical engineering.

Founding of the ASME

This year is the 125th Anniversary of the founding of the American Society of Mechanical Engineers. However, in the late 19th century the society as we know it consisted of a loose association of engineers – industrialists, educators, technical journalists, designers, shipbuilders, military engineers and inventors.

The founding members of the society include Alexander Lyman Holley (1832-1882), considered the foremost U.S. steel and plant engineer and designer of his time; the manufacturer, inventor and author John Edson Sweet (1832-1916); prolific author and great pioneer in mechanical engineering education, Robert Henry Thurston (1839-1903); and world renowned hydraulic engineer whose inventions revolutionized the pumping industry, Henry Rossiter Worthington (1817-1880). With the leadership of Holley and Thurston, ASME provided a voice nationally and internationally for mechanical engineers that practiced in industries such as railroad transportation, machine tools, steel making and pumping. According to the ASME website, the key events in 1880 leading to the founding of the society is described below:

1. Holley chaired the first meeting, which was held in the New York editorial offices of the American Machinist on February 16, 1880 with 30 in attendance.
2. Formal organizational meeting held on April 7, 1880 at the Stevens Institute of Technology, Hoboken, New Jersey, with an attendance of 80 engineers.
3. First annual meeting held in November of 1888 at Stevens Institute of Technology.
4. Robert H. Thurston, professor of mechanical engineering at Stevens Institute and later Cornell, was the first president of ASME. Erasmus D. Leavitt (1836-1916) was the second, followed by key founder John Sweet.

ASME Today*

Today, ASME is a 120,000-member professional organization focused on the technical, educational and research issues of the engineering and technology community. ASME conducts one of the world's largest technical publishing operations, holds numerous technical conferences worldwide, and offers hundreds of professional development courses each year. ASME sets internationally recognized industrial and manufacturing codes and standards that enhance public welfare and safety.

ASME Hawaii Section Celebration Activities in 2005

This year the ASME Hawaii section will be participating in yearlong celebrations and

activities to highlight the achievements of the mechanical engineering profession. The vision of the section is to be the premier organization for promoting the art, science and practice of mechanical and multidiscipline engineering and allied sciences to our diverse communities throughout the state of Hawaii, Guam, and American Samoa. Further this is our mission to promote and enhance the technical competency and professional well being of our members, and through quality programs and activities in mechanical engineering, better enable its practitioners to contribute to the well being of humankind.

To that effort, the local section will be concentrating on activities in the following areas in the months to come:

Engineers Weeks Activities – The local section will be volunteering at the Engineers Week Banquet in February 2005.

Technical Presentations – The section will solicit and encourage industry professionals to provide technical presentation and training session on mechanical engineering topics relevant to the needs of its members.

Industry/College Relations – The local section will continue to foster relationships with the University of Hawaii and Community Colleges by serving on Industry Advisory Boards (IAB) to assist with ABBET accreditation.

Communication Skills – Recognizing that today's mechanical engineer cannot survive on technical competence alone, the section will strive to develop and increase the oral and written communication skills of its members. This also includes the non-verbal aspects of communication found in interpersonal interactions.

Professional Development – The section will work toward increased professional development with respect to providing valuable services in the P.E. review courses. The section will solicit industry professionals and members in academia to conduct review courses.

Promotion and Increase of Membership – The section will strive to communicate to its members the many benefits and services provided as a member of ASME Hawaii.

Coaching & Mentorship – The section will work with other organizations to make aware the benefits and importance of coaching and mentoring our future generation of engineers. This is also inline with the section's goal of maintaining continuity within the local section.

Tours – The section will continue to conduct tours of facilities that demonstrate the application of mechanical engineering principles and have a positive social and economic impact on society.

Joint Activities with Other Professional Societies – The section will strive to conduct joint tours and activities with allied professional societies to foster the understanding of integrated engineering concepts.

Getting Involved

As we begin the New Year, the local section encourages and invites the membership and other industry professionals to participate in the yearlong celebrations. By getting involved and active, the general public will get a better understanding of the profession and ensure perpetuation of the next generation of professionals in the years to come.

*Source: www.asme.org



WORKSHOP ANNOUNCEMENT

“DESIGN-BUILD PROJECTS - BENEFITS AND PITFALLS”

Wednesday & Thursday – January 26 & 27, 2005

University of Hawaii – East West Center – Jefferson Hall

Design Build (DB) Contracting is often considered as a project delivery method for owners who seek a single point of responsibility for directing the design and construction of their new project. This two-day workshop will explore the many facets of the DB process, including the risks and responsibilities of the various participants – owners, contractors and designers. Speakers will share their experiences and provide insight on key elements that contribute to successful DB projects, as well as typical problems that commonly occur in DB project execution. (See attached Program.)

Scheduled Speakers include Gene Wright, AIA, a nationally recognized expert in DB and other project delivery methods, as well as local participants, including owners, contractors, and designers, who have DB experience in Hawaii.

DB Project Owners – U.S. Navy (NAVFAC Pacific), State of Hawaii DOT, University of Hawaii, City & County of Honolulu (DDC)

DB Team Leaders – Contractors – Dick Pacific & Kiewit Pacific, A-E Contractor – EarthTech

DB Team Designers – Architect – Daniel Chun, AIA – Kawahikawa & Chun

Liability & Risk Issues – Insurers – Finance Insurance

Seating for this workshop is limited and registration will be accepted on a first-come, first-serve basis.

Cost: \$175 (two day attendance) / \$100 (single day attendance) for members of the ASCE-Hawaii Section, APWA Hawaii Chapter & ACEC-Hawaii.
\$200 (two day attendance) / \$125 (single day attendance) for others.
Lunch and handouts are included. Prepaid Parking - \$4 per day (in and out privileges)

Registration Deadline: January 14, 2005. No refunds after January 21, 2005.
For more information contact Gail Ikeda (Hawaii-LTAP) at (808) 956-8367, or at gail@eng.hawaii.edu.

State DOT and County personnel – please contact Gail Ikeda (Hawaii-LTAP) at (808) 956-8367, or at gail@eng.hawaii.edu by January 7, 2005.

Registration Form

Name: _____ Employer: _____

Address: _____

Phone: _____ Fax: _____ email: _____

Member of (please check one): APWA ASCE-Hawaii ACEC-Hawaii AIA None

Registration Fees (please check one only):

Members: Wed 1/26 only - \$100 Thu 1/27 only - \$100 Both days - \$175

Non-members: Wed 1/26 only - \$125 Thu 1/27 only - \$125 Both days - \$200

Prepaid Parking: Wed 1/26 - \$4 Thu 1/27 - \$4 (Parking passes and instructions to be mailed)

Total Amount Enclosed : _____

Make check(s) payable to : Research Corporation of the University of Hawaii (RCUH)

Mail Registration Form and payment to: Hawaii LTAP, University of Hawaii, Department of Civil & Environmental Engineering, 2540 Dole Street, Holmes Hall 383, Honolulu, Hawaii 96822, Attention: Ms. Gail Ikeda.



Waiakea Girls ROV gets some last minute adjustments.



Moanalua High School team prepares for the mission.

Underwater Robot Challenge

(continued from page 11)

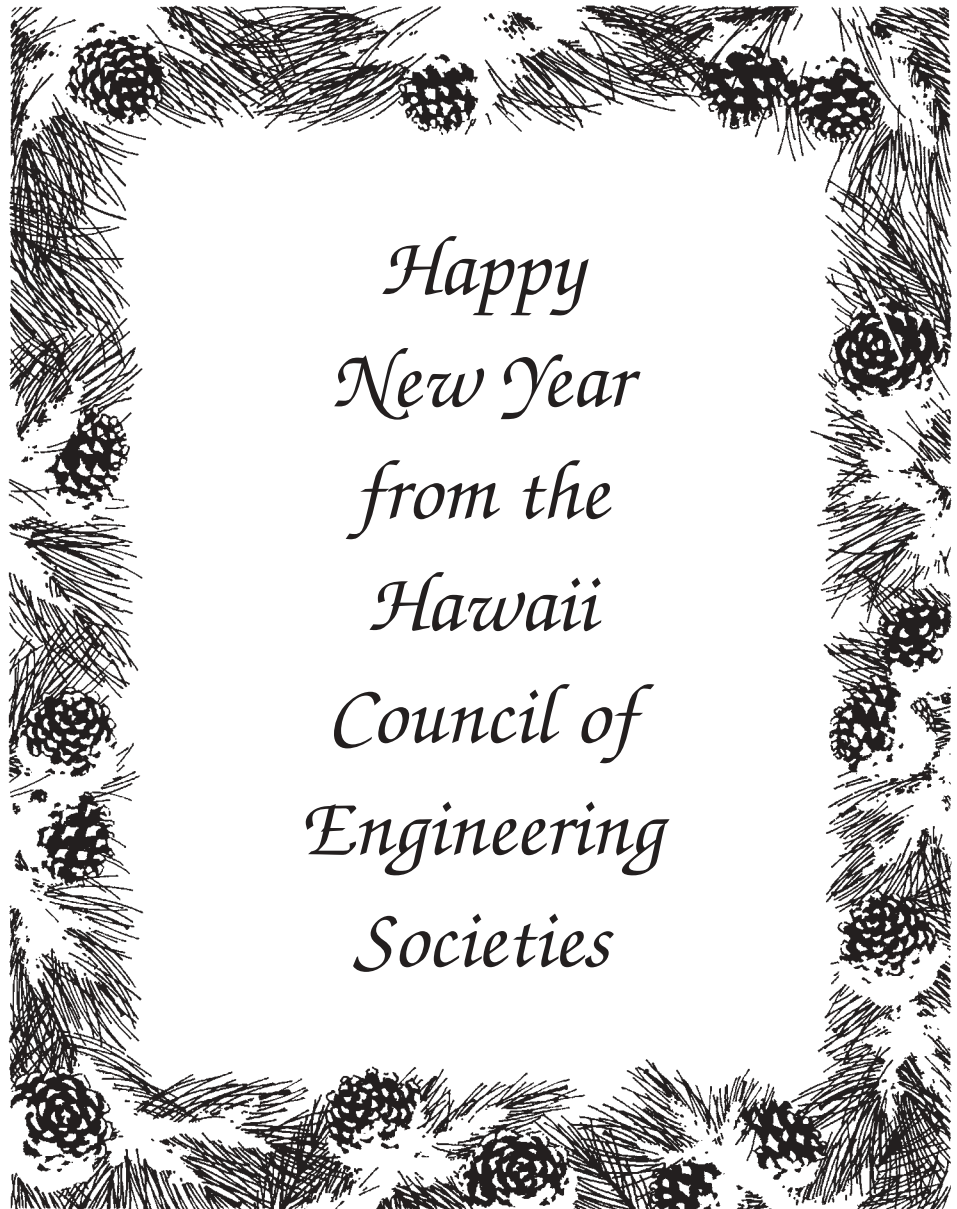
Botters team tied for Shark third place with Waiakea's Boys team, both with 138.5 points; the Botters also had the best technical report.

Thanks to funding support from the IEEE Oceanic Engineering Society, IEEE Hawaii Section, and the MATE Center, all schools received a parts kit at no charge. The parts kit contains motors, wire, switches, propellers, and a video camera which the students use as the basis for their ROV. The University of Hawaii's School of Ocean and Earth Science and Technology sponsored the competition – mahalo nui to the judges, mentors, DKAC pool staff, and most of all, the students and teachers for making this event a great success!

For more information about HURC, contact Mark Rognstad (mrognsta@hawaii.edu) and/or Bill Speed (wgspeed@yahoo.com). New mentors, judges, and most of all, teams are welcome!



Final bolt tightening for Campbell High School's ROV, the Avanti.



*Happy
New Year
from the
Hawaii
Council of
Engineering
Societies*



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2005 COMMITTEE CHAIRS

Program:
 Technical:
 Membership: Darin Okuda
 Sponsorship: Glenn Isidro
 Directed R&D: Jim Walfish
 Specifications:
 Website:

General Membership Update

Elections for 2005 directors have been completed. The overwhelming majority of the chapter membership approved Howard Lau and Akira Usami to two-year terms for Professional Directors. The members also approved the two-year term for Affiliate Director for Shane Arnold of Hunt Building Corporation. 2005 President Jeffrey Hanyu is finalizing his list of officers. The new administration will be installed at the Installation Banquet, scheduled for the evening of February 4. More information on the LGSEA installation banquet to follow.

Sponsorship letters have been circulated and we anticipate an even larger participation from our generous sponsors for the upcoming year. Look for announcements for a Commercial Light Gauge Steel Details seminar to be presented by Don Allen, a professional engineer nationally recognized for his vast experience in the light gauge steel industry. We wish everyone a happy and prosperous new year!

ASME (continued from page 12)

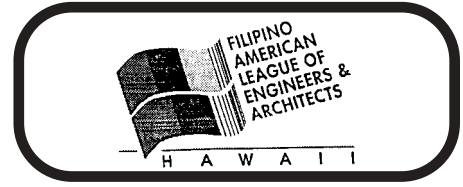
- Founders Day: February 16, Wednesday
 - Boiler Code Day: March 12, Saturday
 - Heritage Day: April 7, Thursday
- Other events slated to take place during 2005 include landmark designations for William Seller's Screw Threads at the Franklin Institute in Philadelphia, PA, and the Model-T at the Henry Ford Museum in Dearborn, MI.

CHARLES HOWARD, ASME FELLOW & PAST REGIONAL VP

Many Hawaii Section members knew Charles Howard. He passed away November 28, 2004. Charlie was a member of ASME for more than 40 years and a dedicated volunteer. He served as the Regional Vice President of Region IX from 1992 until 1994 and as Western Field Director for several years. Charlie was also the recipient of an ASME Dedicated Service Award.

FUTURE TOURS AND EVENTS

- P.E. Refresher Course: Chairman Ray Liu is looking into coordinating a review course for the next exam.
- Tour and Hawaii Section meeting with Big Island member in Kona for next year in May. Possible sites to visit include cold water bottling plant, HELCO Keahole Power Plant, and the Hamakua Partners Power Plant. Other suggestions will be appreciated.
- Whale watching tour & tour of the engine room: Hosted by member P. Michael Watson, President of American Dream Cruises, about mid January to mid March 2005.



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 Website: http://www.falea.org

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<p>7 1/2" x 3 5/16" – (25□) (1/3 page) – \$160.00</p>	<p>2 5/16" x 1 1/4" \$20.00</p>	<p>4 7/8" x 2 5/16" (11□) \$72.00</p>

The price for the ads will be based on a 1 1/4" x 2 5/16" module size which is 1/24th of the page, and be \$20.00 per month with a 15% DISCOUNT for a 6-MONTH RUN.

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