VOL. 37 NO. 4

**SERVING 2000 ENGINEERS & LAND SURVEYORS** 

SEPTEMBER, 2001

# Working together toward new heights

by Wendy Chen

Over the years, the College of Engineering has strived to maintain its tradition of excellence. Graduates of the College hold important positions in the engineering industry as well as in academia and government, both here in Hawaii and on the mainland. Cutting-edge research conducted by the College's faculty and students helps to shape the future of technology.

The long-standing tradition of excellence at the College would not have been possible without the dedication and hard work of all the people that make up the College, namely the students, the faculty, the staff and the alumni. It is through the contribution of each individual that the College continues to fulfill its four-fold mission: to produce graduates with the knowledge, skills and experience that will enable them to succeed in a demanding profession; to conduct innovative research in selected fields that expands the boundaries of existing knowledge; to support the engineering community in Hawaii through outreach, continuing education, and other mutually beneficial endeavors; and to promote a greater understanding of technology among non-engineering students and the general public.

This article will highlight some of the notable individuals who made headlines at the College recently, as well as new faculty and staff members who joined the College this past year.

Those of you who attended the College Banquet this past April are already familiar with the achievements of some of the outstanding students and faculty of the College. For example, recent graduate Kendall Ching (EE 01), Student Engineer of the Year 2001, exemplifies a top-notch student at the College. Prior to finishing his undergraduate studies at the College, Ching was actively recruited by several well-known local and mainland engineering firms. He holds a GPA of 4.0 and has won numerous scholarships and awards including the prestigious UH Regents Scholarship for Academic Excellence.

EE Assistant Professor Wayne Shiroma describes Ching as "the epitome of an outstanding student engineer – outstanding in academics, outstanding in service and outstanding in character." Indeed, in addition to achieving academic excellence, Ching has volunteered to help promote the College to prospective students and to generate support for research initiatives at the College. At the College Convocation this past spring, Ching was named Outstanding EE Graduating Senior. Fellow graduates Stephanie Fung and Melanie

Yamauchi received the Outstanding CE Graduating Senior and Outstanding ME Graduating Senior Awards, respectively.

Students at the College not only excel while studying at UH, they continue to achieve new heights after graduation and throughout their careers. Alumnus Ron Ho (EE 67) provides a good example. A successful engineer, a prominent businessman, a respected employer, a talented musician... Ho is all this and more. But what really sets Ho apart is his role as a dedicated and tireless supporter of the College. Along with U.S. Senator Daniel Inouye, Ho was one of five UH alumni who received the highly prestigious 2000 UH Distinguished Alumnus Awards.

Head of the successful local consulting firm, Ronald N.S. Ho & Associates Inc., Ho does not forget to give back to the institution that prepared him for a career in engineering. Over the years, he has made not only financial contributions but also generously shared his vision and leadership with the College. In an effort to help the College build community relations, Ho helped to organize the College Banquet in April, rallying support from the College's alumni, friends and industry partners. He is also a charter member of the College's Board of Advisors, whose members evaluate the College's programs and activities and make recommendations for improvements.

While outstanding students and alumni help garner recognition for the College, the efforts of those who work "behind the scenes" for the College must not be forgotten. Each day, the College's staff members work tirelessly to ensure that things run smoothly at this institution. Without the dedication of its staff, the College would not be able to function properly and achieve its missions. Recognizing the importance of its staff, the College awards the College Service Award periodically, which recognizes outstanding service to the College by a full- time staff.

Assistant Specialist Carrie Matsuzaki, winner of the 2001 College Service Award, has been a dedicated employee at the Dean's Office since 1988 and a member of the College's Executive Committee. She manages facilities utilization and renovation, computing and scheduling, the College Homepage, and the production of the alumni newsletter. She also reviews proposals for research and equipment grants, and coordinates visiting faculty and scholars for the College.

Despite a heavy workload, Matsuzaki is always there whenever her colleagues need help. Professional, dependable, resourceful,

hard working and pleasant...these are just a few of the words used to describe Matsuzaki by her colleagues. According to ME Associate Professor Lloyd Hihara, Matsuzaki has been an invaluable asset to the College, helping faculty members obtain important research grants, which enable them to conduct innovative research that makes the College an excellent research institution.

This past year, several new staff members joined the College, performing important functions to help make the College an excellent educational and research institution. Dean's Office welcomed new Personnel Clerk Lois Hanohano and Administrative Officer Marie Ohta. Hanohano takes care of the paperwork pertaining to personnel hiring and health fund enrolment. She also notarizes work-related documents for the College's personnel. Ohta provides administrative and fiscal support for extramurally funded contracts and grants. New to the Student Services Office is Kelli Tokuyama, secretary to the Assistant Dean. Tokuyama provides administrative support to the Assistant Dean and assists the students who visit the office for academic counseling. She also helps with important College outreach events such as the Engineering Expo and the Open House.

While Hanohano, Ohta and Tokuyama take care of many internal matters at the College, Mark Fukeda, a new Director of Development from the UH Foundation, oversees fundraising activities for the College. He is responsible for all fund raising activities, including identifying, evaluating and managing major gift prospects, well as developing and implementing personalized cultivation and solicitation plans. Along with alumnus Ho, Fukeda helped organize the College Banquet this past April.

Joining the College's newly established Hawaii Center for Advanced Communications (HCAC) is Kimberly Powers, the center's development/industry liaison specialist. Powers

(continued on page 9)

#### **AUWE! WE GOOFED**

In the August issue of Wiliki, the picture of the ASME-HI 2001 Outstanding Achievement Award on the front page was misidentified as the AES Hawaii New Cooling Tower. The picture was of the Hamakua Energy Partners 65MW Combined Cycle Power Plant. We regret any inconvenience we may have caused.



Published monthly by:

HAWAII COUNCIL OF ENGINEERING SOCIETIES

SERVICE PRINTERS, INC.

1829 Dillingham Boulevard • Honolulu, HI 96819 Telephone: (808) 841-7644 • Fax: (808) 847-1487 ADDRESS ARTICLES FOR PUBLICATION TO: WARREN YAMAMOTO

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#### **WILIKI MAILING LIST**

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

#### LAVERNE HIGA

c/o Dept. of Facilities & Maintenance City & County of Honolulu 650 South King Street, 11th Floor Honolulu, Hawaii 96813

Phone: 527-6246 Fax: 527-5857

## HAWAII COUNCIL of ENGINEERING SOCIETIES

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Secretary:

http://www.eng.hawaii.edu/~hces/HCESHome.html

Layton Nakao

Joanna Seto

486-2092

543-7317

586-4329

## **2001-2002 OFFICERS**Chairman: Ather Dar

reasurer:	Mike Baiderston	263-043
SOC AACE	Representative M. Shoura	Alternate
ASCE	J. Seto	T. Lau
ASME	J. Yamamoto	E. Chang
EAH	K. Andrade	L. Mansfield
FALEA	J. LaPutt	C. Dungca
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ITE	G. Sulijoadkusumo	
LGSEA	M. Kasamoto	L. Nagata
SAME	J. Bersson	
SEAOH	<ol> <li>Robertson</li> </ol>	
SFPE	R. Miller	S. Dannaway
UH(assoc)	W.F. Chen	T. Dobry

#### **HCES MEETING HIGHLIGHTS**

August 7, 2001

#### **WILIKI O HAWAII**

A cover article is needed for the December 2001 issue. Please submit your articles to Warren Yamamoto at wyamamoto1@co.honolu-lu.hi.us. Each HCES Member Society is to submit their updated mailing list and the e-mail address of the person responsible for distribution of the Wiliki PDF files ASAP. Please notify your society membership chairperson if you prefer to receive your Wiliki via U.S. Postal Service or e-mail. Societies are to submit updated names to Warren and e-mail addresses to Webmaster Juny La Putt for webuser group.

#### **ENGINEERS' WEEK 2002**

Engineers' Week is from February 17, 2002 to February 23, 2002. The committees for Engineers' Week 2002 are as follows:

- 1. Kick off Luncheon SAME
- 2. Finance and Budget IEEE
- 3. Exhibits SEAOH/SFPE
- 4. Banquet ASCE
- 5. Program FALEA
- 6. Registration ASME
- 7. Entertainment AACE
- 8. Lifetime Achievement Award HCES
- Engineer & Young Engineer of the Year -HSPE
- 10. Student Engineer of the Year UH
- 11. Publicity EAH
- 12. Awards & Leis HALS
- 13. Proclamation & Photo LGSEA

#### **OPEN HOUSE/EXPOSITION**

Consulting Engineers Council of Hawaii has requested HCES and its member societies for ideas and how to implement an Open House/Exposition at the University of Hawaii at Manoa during the Engineers Week 2002 activities. The goal of this event is to increase the number of students interested in engineering. Competitions sponsored by the Societies (coordinate and donate prizes) may include Bridge Building, Egg Drop, and/or Robotics. E-mail ideas and suggestions before September 4, 2001 to Mike Nojima via hces@yahoogroups.com. There will be a separate meeting on this subject one hour before the regular HCES meeting (11 a.m. on Tuesday, September 4, 2001 at the Plaza Hotel).

#### **NEXT MEETING**

Date: Tuesday, September 4, 2001 (subject to change)

Time: 12:15 p.m.

Place: Plaza Hotel Restaurant, 3253 N. Nimitz

Hwy.

RSVP (regrets and reports) to Ather Dar via hces@yahoogroups.com.

# **Engineers Sought** for 3Rs Initiatives

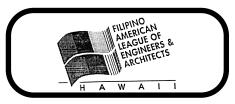
Promises to repair, remodel and restore schools under the 3Rs program are moving closer to reality. Each public school principal was provided with application instructions and forms for proposed 3Rs projects during their August 9- 10, 2001 Educator's Leadership Conference. The goal of 3Rs is to leverage the use of volunteers and donations needed to match state and federal funds for projects allocated to reduce the \$640 million backlog of deferred school maintenance. Participation by engineers will be a key part of the success of the effort

3Rs was previously described in the May 2001 issue of *Wiliki* when legislation authorizing funds for the program was under consideration. Since that time Act 309 has become law and each public school is eligible for up to \$25,000 in financial aid for approved projects. Act 309 also provides a tax credit for contributions of in-kind services by engineers and other professionals.

Evaluation and selection of a project will depend on how well the application describes the need, quality of vision and design, extent and strength of partnerships, leveraging of resources, and quality of the management and maintenance plan. Projects must be on the

existing list of backlog projects maintained by the Department of Accounting and General Services.

October 1, 2001 is the deadline of submittal of projects for evaluation by the Technical Review Committee. With such a tight schedule and the need for a plan that meets DAGS specifications, technical assistance from engineers will be sought by schools seeking to capitalize on the program. The project application requires the designation of a Project Manager responsible for the identification of an "Architect and Engineer (A&E)". Engineers are not constrained to wait for a call from a school but may take the initiative to contact a school they may wish to support in the 3Rs program.



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

#### 2001-2002 Officers and Directors

	moone and billetone	
President	Oscar C. Paez, Jr.	676-2797
Pres-elect	Rogelio A. Urbi	693-8913
Vice-pres	Marites Calad-Shoji	671-3961
Secretary	Daina G. Legaspi	671-3460
Treasurer	Elvira Marie B. Pineda	780-2858
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Auditor	Francisco T. Cruzata	677-9477
Bus. Manager	Gregorio S. Garcia	833-7985
P. R. O.	Zam Louie P. Criste	947-3405
Directors:	Joel L. Francisco	721-4440
	Armando P. Ines	486-7814
	Marcelino C. Labasan	422-8867
	Ricardo J. Magday	423-1771
	Leonard G. Obaldo	672-4538
	Alfredo A. Quibol	678-2572

## Congratulations to our SUCCESSFUL EXAMINEE

Joey Resurreccion, for passing the latest EIT test

## ANNUAL GENERAL MEMBERSHIP MEETING

August 4, 2001

The annual reports of the current Officers and Directors were made and the Constitution and By-laws of the organization was also amended to address various issues.

The highlight of the meeting was the counting of ballots for the 2001-2002 Officers and Directors listed above.

#### **UPCOMING EVENT**

FALEA's Awards and Installation Banquet for 2001-2002

Officers and Directors will be held on September 29, 2001 at Sheraton Waikiki Hotel. Call *Marites Calad-Shoji* for more information.

Scholarships to students who will be entering or are enrolled in the school of architecture and engineering will be awarded.

Also, the outstanding members in the field of architecture and engineering will also be recognized that evening. Call *Oscar C. Paez, Jr.* for more information.

#### **FUNDRAISING**

A big mahalo to all our supporters (players, sponsors, etc.) for the success of the past FALEA Golf Tournament last August 18, 2001 held at Kapolei Golf Course. Proceeds will go to our scholarship fund for this coming school year.



#### **IEEE Hawaii Section**

PO Box 37895 Honolulu, HI 96837 Email: sec.hawaii@ieee.org

Web Page: http://community.hei.com/ieee/

#### 2001 Hawaii Section Officers

Chair:	Norman Kawachika	531-1308
Vice-Chair:	Oscar Libed	441-8567
Sec/Treas:	Grant Torigoe	945-2984

#### Section Committee Chairpersons

HCES Rep:	Mike Balderston	263-0437
Membership:	Al Toda	455-1331
Webmaster:	Steven Sano	543-7981
Prof. Act:	Grant Torigoe	945-2984
Stud. Act:	Tep Dobry	956-9740

## MEETING PRESENTATION Life in the Extreme: Volcanic Settings

Alexander Malahoff, Ph.D.

Professor, Department of Oceanography Director, Marine Bioproducts Engineering

Center (MarBEC)
Director, Hawaii Undersea Research
Laboratory (HURL)

University of Hawaii at Manoa

The study of why and how life survives in the Extreme environment is a major frontier of science today. The hardiest forms of life surviving in extremely hot submarine vents or the coldest parts of the earth's core are called extremophiles. These single-celled microbes are very versatile life forms. Their common habitats are geothermal vents, pools, lakes and craters of active volcanic regions, such as those of New Zealand, Japan, Kamchatka, Yellowstone USA or the hydrothermal vents of the ocean ridges and submarine volcanoes. These settings are accessible by foot, boat, helicopter, or submersibles.

This presentation examines the geology, chemistry and microbiology of geothermal sites of New Zealand, including the active volcano, White Island, Yellowstone, the submarine volcano Loihi in Hawaii. Sections of the midocean ridges and the engineering of sampling and bioreactor systems used in the study of these organisms will also be discussed. It is from these microorganisms that valuable bioproducts may be extracted. The University of Hawaii's Marine Bioproducts and Engineering Center (MarBEC) is laying the foundations for such new industries.

#### Wed, September 19, 2001 - 6:00 pm

Hawaii Convention Center, Honolulu Cost is \$10.00 for heavy pupus

Contact: Oscar Libed Tel: (808) 441-8567

Email: oscar.libed@twtelecom.com

Institute of Electrical and Electronics Engineers presents:

#### **OCEANS 2001**

November 5-8, 2001 Hilton Hawaiian Village

The setting for OCEANS 2001 will be a place whose culture is unique not just in America but also in the world.

The multi-ethnic population of Hawaii sets a positive standard for international harmony and understanding. Hawaii's business and cultural climate is stimulating. The environment is empowering. And, at a time when security is a consideration, it's worth knowing that Honolulu

is one of the safest large cities in America.

Typically more than six million people from around the world come to the islands each year. Over half a million annually attend conferences, forums, and trade shows in Honolulu and at locations throughout the state.

Honolulu's unique location serves as a travel hub and makes things simple. There is no better location for a convention whose delegates will be coming from Asia Pacific and America. Travel time from the West Coast is about five hours. Travel from the East Coast takes a few hours longer. But, as many who have come here will agree, Hawai'i is well worth the trip.

The **Hilton Hawaiian Village** is located on a beautiful sandy beach in Waikiki. The property is a deluxe hotel and offers many amenities. The hotel units have central air conditioning, an honor bar, a refrigerator and color cable television. Units in the Lagoon Tower have fully equipped kitchens and cable television as well as access to the private pool for the Lagoon Tower guests. The Hilton Hawaiian Village has several pools, restaurants, lounges, and watersport equipment rentals. This is a self-contained village where a guest never has to leave to take a relaxing tropical break.

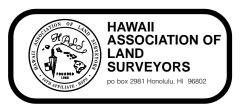
This unique location is great for speakers, exhibitors and attendees. The large and comfortable meeting rooms are convenient to the exhibit hall, and there are ample areas to meet for discussions over a cup of coffee, drink or a meal

As honorary co-chairs, Dr. Seiji F. Naya, Director Hawaii Department of Business, Economic Development & Tourism and Admiral Thomas B. Fargo, Commander in Chief, U.S. Pacific Fleet extends an invitation to attend OCEANS 2001 MTS/IEEE at the Hilton Hawaiian Village in Honolulu, Hawaii. An outstanding agenda will focus on technical advances, economic potential and military and industrial needs for the future.

The conference schedule is set with ample time to view the exhibits during morning and afternoon coffee breaks. This will assure plenty of time to meet conferees, exchange ideas, show products and discuss sales.

Technical tutorials will provide information to a wide range of scientific interests. As an example the Marine Corrosion Engineering session by Jim Jenkins will cover corrosion fundamentals applied to the design, construction, operation and maintenance of structures and equipment that will be used in marine environments. The attendees will be given a better understanding of the fundamentals of corrosion that will improve their ability to understand the corrosion literature, to communicate with experts in marine corrosion, to better integrate corrosion control into system design, to improve their ability to make field changes when required and decrease the likelihood of unnecessary corrosion failures. Emphasis will be placed on the mechanisms of corrosion in marine environments, the forms of corrosion commonly encountered in marine systems, the characteristics of marine environments that influence corrosion, the methods that can be used to control corrosion in marine systems, and the integration of corrosion control into system design.

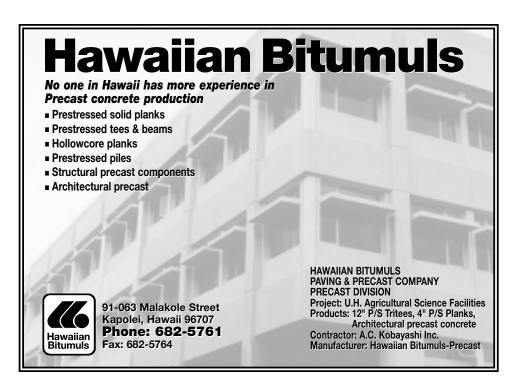
http://www.oceans2001.com/invitation.htm Fred Kobashikawa, fkobashi@ieee.org, IEEE Hawaii



http://www.geocities.com/hals\_us

#### **OFFICERS FOR 2001**

President Byron Komatsu 692-7599 Vice-Pres Kendall Hee 591-8116 Secretary Dennis Chong 523-4482 Eric Hee 591-8116 Treasurer 521-7491 Director Kevin Kea David McDonald 536-2705 NSPS Gov 247-6602 Patrick Cummins Past Pres Layton Nakao 543-7317





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

#### 2001 OFFICERS & DIRECTORS

Officer	Phone	Fax
Dennis Hanatani	737-9488	735-1432
Tom Tanimura	536-7692	537-9022
Darin Okuda	689-5400	689-5406
Craig Sakanashi	942-9100	942-1899
Irving Hirata	839-0606	839-0396
Wes Segawa	536-4495	524-4466
Glenn Miyasato	488-7579	488-7818
	Dennis Hanatani Tom Tanimura Darin Okuda Craig Sakanashi Irving Hirata Wes Segawa	Dennis Hanatani     737-9488       Tom Tanimura     536-7692       Darin Okuda     689-5400       Craig Sakanashi     942-9100       Irving Hirata     839-0606       Wes Segawa     536-4495

#### HIGHLIGHTS OF BOD MEETING

August 6, 2001

**Treasurer's Report:** Current general checking account balance: \$8,058.20. Current money market account balance: \$5,965.11. Current convention checking account balance: \$3,000.00.

**Status of Past Treasurer's Audit:** The audit is nearly completed by Gina Ichiyama and a letter to the Board is forthcoming.

**2000 Tax Return:** Craig Sakanashi reported that the tax return is currently being prepared.

NCSEA and WCSEA Dues: The Board discussed having NCSEA and WCSEA dues paid before the conventions. Dennis Hanatani informed the Board that NCSEA and WCSEA do not send reminder notices for dues. Craig will follow-up and remit dues prior to the conventions

**Quicken Software:** Craig will review the viability of using the Quicken software for SEAOH's financial records. Members should contact any Board member if there are any concerns.

Summary/Financial Update for July 24 SEAOH/CCPI/MIH Masonry Design Seminar: The Board reviewed and accepted the Income and Expenditures Report for the seminar prepared by Tom Tanimura.

#### **NCSEA/WCSEA Conventions:**

**Delegates:** Tom Tanimura will attend the NCSEA Convention. Glenn Miyasato will attend the WCSEA Convention. Meeting agenda and program will be requested for SEAOH Board review and comment prior to conventions.

Meeting Agenda/Program: Tom Tanimura presented a list of committees. SEAOH is on the Professional Practice committee. Tom also presented NCSEA ballot of officers and amendments to NCSEA dues structure. Board concurs with officer nominees and amendments. Members with issues or concerns that they would like to have discussed at the convention should contact Tom.

Nomination of 2002 SEAOH Officers and Directors: Candidates for 2002 SEAOH Officer and Director positions are as follows:

and Director positions are as follows: President: Tom Tanimura of Tanimura & Associates. Inc.

Vice President: Randy Chu of RC Engineering

Secretary: Russ Miyahara of KSF, Inc., Eric Matsumoto of Wilson Okamoto & Associates, Inc.

Treasurer: Dipu Sengupta of Sato & Associates, Inc., Craig Ellingson of Nagamine Okawa Engineers, Inc.

Directors: Ibbotson Kellet of Special Inspection Consultant, Paula Daligcon of

Acoustical Material Services.

**SEAOH Scholarship Fund:** The Board discussed the possibility of setting up an annual scholarship award at the University of Hawaii. Discussion will be continued at the next Board meeting. Members may contact any Board member to express their comments or concerns.

#### **Committee Reports:**

**Program:** Tom Tanimura reported that there are no changes to the schedule of upcoming meetings and seminars.

**2001 Annual Convention on Kauai:** Glenn Miyasato reported that the convention was a success. A report will be presented at the next BOD meeting. The Board would like to thank all of the committee members for their hard work

**HCES:** Irving Hirata reported that HCES instituted two amendments to the constitution.

**2002 Installation Banquet:** Tentatively scheduled for January 25, 2002 at the Hale Koa Hotel.

Complex Building Codes: The Board discussed the consequences, liabilities and financial implications of using complex building codes and standards in the structural engineering design practice. Further discussion leading to a possible position statement from the Board will be continued at the next meeting. Members may contact any Board member to express their comments and concerns.

#### Correspondence:

Three trial design problems were received from the ASCE/SEI-BPAD Design Practices Committee. The problems are representative of common engineering tasks that are routinely performed in structural engineering offices. The purpose of this exercise is to determine if various sections of the codes and standards are being interpreted properly. The problems will be evaluated anonymously. Members interested in participating in this program may contact committee member, Clayton Wong at 531-1308.

#### 2001 CALENDAR OF EVENTS

September 20, 2001 – General Membership Meeting. Steve Myer will speak about innovative truss framing.

October 30, 2001 – Breakfast Meeting. Carol Pivonka will present the new AISC Bolt Specifications.

November 14, 2001 – Seminar on Simplified Concrete Design by Dr. David Fanella, P.E. from the Portland Cement Association.

**Next BOD meeting:** will be at 11:45 am on Monday, September 10, 2001 at Dennis K. Hanatani, Inc.



#### **HAWAII CHAPTER**

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

#### 2001-2002 OFFICERS & DIRECTORS

Position	Name	Phone	Fax
President	Les Nagata	951-5916	941-6489
Vice Pres.	Brian Ide	536-2108	521-3000
Secretary	Mike Kasamoto	955-6834	955-2483
Treasurer	Colleen Miyasato	735-3211	735-3280
Director	Mike Goodnight	1-245-3975	1-245-3977
Director	Tim Waite	485-1400	485-1500
Director	Ron Iwamoto	533-2210	533-2686
Director	Gary Lum	536-4495	524-4466
Past Pres.	Dipankar Sengupta	955-4441	942-2027

#### 2001-2002 COMMITTEE CHAIRS

Program:	Brian Ide	536-2108	521-3000
Technical:	Gary Lum	536-4495	524-4466
Membership:	Ron Iwamoto	533-2210	533-2686
Corp. Spon.:	Mike Goodnight	1-245-3975	1-245-3977
HCES:	Ather Dar	486-2092	486-9261

#### **PAC RIM**

The 2001 Pac Rim Steel Framing Conference is being sponsored by the Hawaii Steel Alliance on September 9-12. This conference brings steel enthusiasts from all over the world together. Call Les Nagata (951-5916) or Sylvia Roney (485-1400) for more information.

## PRACTICAL DESIGN OF COLD-FORMED STEEL STRUCTURES

WHEN: SEPTEMBER 13, 2001, 8:00 AM TO

5:00 PM

WHERE: ALA MOANA HOTEL

COST: \$150 Tuition, \$100 for LGSEA mem-

bers, \$50 Student rate

This presentation was developed due to comments that a previously presented 3 day seminar was too technical, too code based, and too expensive. The seminar is PRACTICAL design procedures for steel joists, headers, studs, secondary members, and other structural components. This is a must see for engineers. Call Les Nagata (951-5916) or Sylvia Roney (485-1400) for more information.

#### **GOODBYE TIM WAITE**

For the past several years Light Gauge Steel (LGS) has made tremendous strides in the construction industry. Over the years, we have taken a lot of things for granted, especially people who have been instrumental in this revolution. If there is one name that can be tied to

(continued on page 9)



## **PREPRINTED AD**



Website: www.ascehawaii.org

#### 2000-2001 OFFICERS

		Phone	⊦ax
President	Joanna Seto	586-4329	586-4352
	jseto@eha.health.si	tate.hi.us	
Pres-Elect	Tony Lau	524-3771	538-0445
	tlau@hawaiipacifice	engineers.co	m
Vice-Pres	Horst Brandes	956-8969	956-5014
	brandes@wiliki.eng	ı.hawaii.edu	
Secretary	Westley Chun	488-0477	488-3776
-	Engrsol@gte.net		
Treasurer	Keith Niiya	533-3646	526-1267
	kniiya@atahawaii.c	om	
YMF Dir	Willie Gacutan	847-3763	843-0294
	wgacutan@hotmail	.com	
Past-Pres	C. Michael Street	681-5221	699-2035
	StreetC@USFilter.co	om	

#### SEPTEMBER DINNER MEETING

Program: Joe Van Ryzin, President of Makai Ocean Engineering, Inc., will speak on the installation of Submarine Communication Cables. In recent years there has been a tremendous growth in providing access to the internet. As a result, billions of dollars have been invested for the installation of submarine fiber optic cables. The delicate fiber optic cables are deployed from large ships and are carefully placed on the seafloor in water which is thousands of meters deep. The presentation will demonstrate the complexity of submarine cable installation dynamics and show how sophisticated computers systems are used to model that complexity and to actually control the cables in real time.

The Younger Member Forum will also present highlights from their 2001 activities.

Date: Thursday, September 20, 2001 Location: Treetops at Paradise Park, Manoa

Valley

**Time:** 5:30 p.m. - Social Time

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

Menu: Multi-entree buffet

Cost: \$22.00 for Hawaii Section members

\$25.00 for non-section members

and guests

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

Make check payable to "ASCE-Hawaii Section." Mail to Keith Niiya, ASCE Treasurer, Austin Tsutsumi & Associates, 501 Sumner Street, Suite 521, Honolulu, HI 96817-5304 postmarked by Monday, September 17, 2001. Reservations to Keith Niiya by Monday, September 17, 2001 by phone at 533-3646 or fax at 526-1267.

## EXECUTIVE COMMITTEE MEETING HIGHLIGHTS

August 2, 2001.

#### **2001 CALENDAR OF EVENTS**

(subject to change)

October 19, 2001 – Annual Banquet and OCEA Presentations

October 25, 2001 – Workshop co-sponsored with APWA Hawaii Chapter and LTAP entitled "ADA: Designing Public Rights-of-Way"

#### ADA: Designing Public Rights-of-Way

The American Society of Civil Engineers -Hawaii Section with the Hawaii Chapter of the American Public Works Association and Hawaii Local Technical Assistance Program will be sponsoring a workshop entitled – "ADA: Designing Public Rights-of-Way". Hawaii leads the nation in lawsuits for non-compliance with the American Disability Act. This workshop will focus on the design of public civil works to meet these requirements. Find out what is being done locally, what is being done in other States, and what changes you can expect in the future. You cannot afford to miss this event. The one-day workshop will be held on October 25, 2001 at the Pagoda Hotel on Oahu. For more information, please contact Keith Niiya at 533-3646 or kniiya@atahawaii.com, or log on to the ASCE Hawaii Section website at www.ascehawaii.org.

#### West Point Bicentennial Engineering Design Contest

The West Point Bicentennial Engineering Design Contest kicks off in November 2001. This contest will showcase the talents of the nation's K-12 students. In preparation for this event, everyone is invited and encouraged to enter the trial contest. Log on at http://www.asce.org/150/wpbedc.html.

#### 150th ANNIVERSARY OF ASCE

ASCE is the nation's oldest national engineering society. From October 2001 through November 2002, events have been scheduled to celebrate ASCE's 150th anniversary and focus on how civil engineering has shaped the past 150 years. Please contact Delwin Ching (dching@hgea.org) to find out more information and how you may assist in this effort.

#### SPECIAL MEMBERSHIP DRIVE CONTINUES

Members who recruit 150 new, paid members between April 1, 2001 and September 30, 2002 will receive \$5,000. Please contact our Membership Chair, Stacie Saito, at 449-9195 or Stacie.Saito@hickam.af.mil for more information.

When you sign up new members or when you renew your membership, don't forget to pay section membership dues. Only Hawaii Section members are able to keep up with local events through our website.

#### GET CONNECTED AND KEEP UPDATED

Do you currently receive ASCE dinner meeting notices by e- mail? If not, you are not on the ASCE e-mail list. Sign up now to receive quick updates on ASCE activities such as legislative affairs, Section meetings, field trips, and future Wiliki O Hawaii.

Visit our website at www.ascehawaii.org and register to be on the ASCE e-mail list. There is no charge. However, you must be a current member of the Hawaii Section and have your ASCE membership number available when registering.

If you prefer to receive your future Wiliki O Hawaii newsletters by U.S. Postal Service please contact our Membership Chair, Stacey Saito, at 449-9195 or Stacie.Saito@hickam.af.mil.

## OAHU METROPOLITAIN PLANNING ORGANIZATION

John Sato was recently elected to Chair the Citizen Advisory Committee (CAC). He has spent numerous hours attending the CAC meetings providing guidance and input on transportation issues affecting Oahu. Congratulations John and a job well done. Keep up the good work.

## REMEMBER WHEN YOU WERE IN SCHOOL?

Show your support for our Civil Engineering students by sending your donations for the ASCE Endowed Scholarship Fund to the attention of Michael Street at the ASCE Hawaii Section address.



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

#### 2000-2001 OFFICERS

Phone 847-3763, x212 Willie Gacutan Director: wgacutan@hotmail.com 521-3051 Admin: Jamie Hikiji jamie\_hikiji@metcalfeddy.com Social/ Jeff Kalani 593-1116 Comm.Act jeff\_kalani@urscorp.com 455-3569 Web page: Lori Ikeda lori@ikedanet.com PE Refresher 524-3771 Tony Lau tlau@hawaiipacificengineers.com Course Past-Dir: Lorna Heller 527-5202 lornagreg@yahoo.com 956-5808 St/Liais Lori Nishida lornish@hotmail.com

#### 2001 ASCE YMF PE Refresher Course

The 2001 ASCE YMF PE Refresher Course was a success! The 2001 class passing rate was 12-percent higher than the National passing rate. The YMF will once again be organizing a PE Refresher Course for 2002. The class will start in January and will end in March. Flyers for the class will be available in late-October 2001. Flyer will be available on the YMF website at www.ascehawaii.org/ymf.html. For more information about the class and/or if you want your name on the PE Refresher Course e-mail list, please call Tony Lau at 522-7426 or e-mail him at tlau@hawaiipacificengineers.com.

#### Septembers'Community Service Activity

The YMF is planning to help volunteer at the Muscular Dystrophy Labor Day telethon on Sunday, September 02 and Monday, September 03, 2001. Times to be determined. If interested, please email Jeff Kalani at Jeff\_Kalani@urscorp.com.

Seeking Nominees for Awards Chairperson for YMF 2001 - 2002.

For more information, please contact Willie Gacutan at 847-3763 Extension 212.

#### KNOW YOUR ASCE HISTORY

by C.S. Papacostas

In my August 2001 article I described the transportation (and other) impacts of horses had on Hawaii. Safety is a major concern that is always associated with transportation and the introduction of the horse-based transportation "technology" was no exception.

As Edward D. Beechert quotes in his 1991 book "Honolulu: Crossroads of the Pacific," back in 1838 Queen Kaahumanu II issued the following proclamation: "[b]ecause of the lack of streets some people were almost killed by horseback riders and the rulers of the kingdom barely escaped in 1834... I shall widen the streets in our city and break up some new places to make five streets on the length of the land and six streets on the breadth of the land."

Some of these streets had their origins as earlier trails and footpaths as described by John Papa li in his "Fragments of Hawaiian History." Also, according to "Ruling Chiefs of Hawaii" by li's contemporary Samuel M. Kamakau, Boki (Governor of Oahu)

"Early in 1829 started work on a government road from the west gate of [his] Beretania place at Kahehune (the Royal School) to 'Auwaiolimu (where the Buddhist church stands on Punchbowl) and to the Pauoa stream..."

A map issued by Charles Wilkes in 1840 clearly shows the Queen's plan implemented on the ground. The street layout in the area

bounded by Beretania and Queen Streets from Punchbowl to Nu'uanu stream bears a remarkable similarity to today's alignments. Street is shown to extend to the West across the stream, whereas Nu'uanu Avenue jots out to the North. Ii describes Nu'uanu as one of the areas where Kamehameha I liked to engage in farming and recalls that "When Kamehameha went to Nuuanu, mounted on his horse, Kawaiolaloa, many of the children, including Ii followed him with great interest. They found innumerable people all over the farming area, from down below the present road [c. late 1860s] at Niuhelewai to the bend in the road where the houses of the Portuguese now stand.

Nuuanu later became the place of notable Honolulu residences, including that of the prominent Chinese island merchant Chun Afong. To the north of these houses lies the road to the Nu'uanu Pali, the story of which must wait its turn in an upcoming article in this series.

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.

# NOMINATIONS FOR THE 2001 HAWAII SECTION ASCE OUTSTANDING CIVIL ENGINEERING ACHIEVEMENT AWARD

The Hawaii Section of ASCE is seeking nominations for its annual Outstanding Civil Engineering Achievement (OCEA) Award. The Hawaii Section Award will be presented at the annual banquet in October. Details for nominating projects were presented in the July Wiliki and are summarized here. The selection is by jury and the deadline for all nominations is September 10, 2001. Please contact Walter Billingsley of Belt Collins at 521-5361 for additional information on judging criteria, submittal requirements, and/or nomination forms.

#### **ELIGIBILITY REQUIREMENTS**

Any civil engineering or construction project located within the 50 United States, its possessions, territories and commonwealths is eligible. Types of eligible projects include: Bridges, tunnels, waterways, structures, roads (other than toll); Toll or similar regional roads; Water supply, flood control dams; Power dams; Fuel power plants; Buildings and structures; Airports and other similar large developments; Water supply, waste disposal; and Military projects (such as bases, launching units, and harbor facilities). See the July issue for further eligibility details.

#### SUBMITTAL REQUIREMENTS

Submit four copies of the entry to Walter Billingsley, c/o Belt Collins Hawaii, 680 Ala Moana Boulevard, First Floor, Honolulu, Hawaii 96813-5406. See the July Wiliki for detailed submittal requirements.

#### PREPARATION GUIDELINES

Entrants should consider all phases of the project, including planning, design, construction, operation, and maintenance. The project's environmental, political, economic, social, and legal aspects may also be important.

Keep technical information in lay terms as much as possible. Include only data and charts that are essential to understand the project's technical aspects or innovations. Entries may be read by general media reporters who cover civil engineering issues but who may not have civil engineering backgrounds. Videos will not be accepted.



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## 10th ANNUAL SCHOLARSHIP GOLF TOURNAMENT

Join in on the fun and fellowship to promote our profession. Participate in the 10th annual scholarship golf tournament on Friday, October 12, 2001 at the West Loch Golf Course. The tournament supports three students in the University of Hawaii engineering program. The format is individual medal play with a shotgun start at 12:30 pm. Contact tournament chair Larry Agena or Royden Ishii at Belt Collins. phone 521-5361, or email: royden@belt-collins.com for registration information.

#### FACES OF NSPE INVITE ENGINEERS TO JOIN

NSPE is taking on a look as new and dynam-

ic as the engineers it represents. It's all part of the assertive outreach to engineers to join NSPE and celebrate their profession. With its new emphasis on professional development, leadership training and networking for success, as well as its traditional commitment to ethical conduct, NSPE is the natural choice for professional membership, alongside technical membership.

Join NSPE for the future of the profession.

#### ALL ARE WELCOME!

Civil Engineering Seminars (CE 691 - Fall Semester 2001)

**LOCATION:** Holmes Hall 211, Department of Civil Engineering, University of Hawaii at Manoa **TIME:** 3:30 p.m.

**AUG 31** Max M. Shoura, Carter & Burgess, Inc. - Pavement Management Program and Implementation Process.

**SEP 7** Michael Yamasaki, URS Corporation - Geological Conditions Affecting Foundations in Waikiki.

**Sep 14** Campanella Richard, U. of British Columbia - Geophysical Methods in In-Situ Testing of Soils.

SEP 21 Walter Lum, Consulting Engineer - The Ala Wai Canal.

**SEP 28** Robin Lim, Geolabs, Inc.- Foundation Considerations in High Seismic Areas.

**OCT 5** Gary Chock, Martin, Bravo & Chock - Topographic Effects of Wind Speeds in Hawaii.

**OCT 12** Owen Miyamoto,formerly Dept. of Transportation - Offshore Runways in San Francisco.

**OCT 19** Jadine Urasaki, Dept. of Transportation - To be Provided.

**OCT 26** Mary Yoshimoto, Finance Insurance - Liability Issues for Civil Engineers.

(continued on page 9)

# Engineers in the New Workplace

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Harriet Cooke, PE

As a working mother, Harriet participates in an alternative work schedule as a senior engineer at Corning Cable Systems in Hickory, N.C. One of the new faces of NSPE, Harriet is president of the Hickory Chapter of Professional Engineers of North Carolina.



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Dir 1-yr	Ed Chang	543-4227
Dir 2-yr	Ron Flegal	455-0254

#### **MEETING NOTICE**

**Executive Committee Meeting** 

Date: September 4, 2001 (Tuesday)

Time: 6:00 p.m.

Place: Holmes Hall 309, University of Hawaii

at Manoa

Agenda: Installation of Committee Members

All interested members are asked to attend. For more information, please call John Yamamoto at 838-8805. Free pizza and pop will be provided.

Please attend to support our new Chairman, John Yamamoto.

#### **2001 SURVEY RESULTS**

Of the 252 members surveyed, 35 returned their surveys. To increase response next year, our section may include return postage, and allow facsimile and e-mail responses.

Suggestions for tours were few. They included the new Hamakua Energy Partners power plant and irradiation plant on the Big Island, the AES power plant, the Navatek, Patriot, Underwater storage, the water Park, Waimanalo USDA Fruit Fly Facility, Missouri engine room and lower levels, and submarines. Eight of the 15 respondents preferred Saturday tours.

As for members interested in serving on a committee, five members are interested in History & Heritage, two for Honors & Awards, and two for Section Programs. Our Section needs to contact, inform, and encourage all these interested members.

Only 33 responding members specified that they would like to either continue or start receiving the Wiliki. It is assumed that all other members who did not return the survey do not want to receive the Wiliki.

The rest of the survey results will appear in future Wiliki issues.



#### 2000-2001 Officers

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civil@wilsonokamoto	com.		
Terry Brothers	Vice-Pres	949-7334	943-7951
brothers@wilbursmit	h.com		
Richelle Suzuki	Secretary	541-2530	541-2700
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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	Niel Guptill	483-3392
Director	Brian Kang	449-5563

Meetings held every Friday at YWCA Room 205 on Richards St. Downtown. Parking at Alii Place off Alakea St. 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.

#### September 2001 Meetings

Friday Sept 7; Speaker: Representative Scott Saiki; "The State and the Felix Descent Decree." Representative Scott Saiki will talk about the impact of the Felix Descent Decree on the State's Education System.

Other Fridays Meeting will be on Sept 14th, 21st and 29th. Speakers to be announced.

Meeting Notes for Friday Meeting May 18th, 2001, continued from the August 2001 issue.

# Mr. Chip Fletcher, Professor Geology & Geophysics University of Hawaii Manoa. "Beach Erosion in Hawaii"

Erosion is bascally caused by three different forces. One is human impact to the availability of sand on the shoreline. The second is waves and currents move sand around and the third is possibly sea level raise. In Clip's opinion it is human impacts that are the most important source in coastal erosion in Hawaii. As an example, take Kailua beach. It is two and half miles long. The entire beach in Kailua is growing seaward. It has added about sixty feet of land over the last century. And it has done this in the face of raising sea levels. The sea level has risen over that same period of time. If you look at Kailua Beach Park, where the City and County have been taking sand out of the canal that flows through Kailua Beach Park to help the flooding hazard. But rather than putting the sand back on the beach they have put it up on a sand dune such that you can no longer see the ocean from Buzzes Steak House. Kailua beach park is the only place where the beach has eroded back. So where we are actually trying to manage the problem we have had the reverse effect. Basically it came down to the fact that Kailua reef and Kailua beach have a health sand budget. And erosion is all about how much sand there is on beaches. So sea level rise doesn't necessarily, lead directly

Examples of human impacts: Kualoa shore-line, Kaaawa head land, Kualoa beach park. Along this shore line there are literally dozens of groins that have been put in. Each one is trapping sand that has led to eroded lands. But loss of all this sand and the interruption to the long shore transport of sand had lead to the erosion of Kualoa beach park. There have been some erosion rates of some nine feet per year off and on over the last twenty years. Twenty-five years ago the City and County lev-

eled all the sand dunes, put down topsoil and put grass on top of that. The dunes are actually the beach's bank account, its savings account of sand. And something that has been done through out the State is to take these important sand dunes and level them and put grass on them. So we can see the ocean. But that robs the beach of an important source of sand that the beach needs to maintain flexibility when there are high waves and storms. So in the end it is poor sand management.

A slide of Waimea Bay and the jump rock in 1910 show the rock was surrounded by sand and the shoreline was makai of jump rock. Almost all of the 200 feet of shoreline recession that has taken place as well as the deflation of the volume of sand is due to the mining the sand by Waialua Sugar Company. For decades and decades they filled trucks up with this nice Calcium carbonate sand. And then if you burn that sand you can make lime and put it on the cane fields. So the sand mining has stopped and the shoreline is no longer eroding. It is a stable shoreline.

Hawaii's waves and winds around the island are of course seasonal. In the winter there are huge swells on the north shore. In the winter of 1998 the entire Kailua beach park boat ramp was buried and the shoreline accreted out. In the summer of 1998 the shoreline had moved back, uncovering the boat ramp. So there is a seasonal variation. This is erosion, but it is not the chronic erosion. It is not the coastal land erosion.

Sea levels are rising around the world. For over a decade there has been a satellite that actually maps the ocean surface. From that satellite, the ocean surface is raising at about 2 mm per year. The tide gages tell the same thing. The longest tide gage in the United State is in Honolulu. It is a 100-year record showing a rise of about 1.8 mm per year. It was noted that they have not seen acceleration in sea level rise due to the industrial revolution. But they are projecting it. They are projecting that by end of this century there will be a two foot At the current rate, the rise sea level rise. would be 6 to 8 inches. However, the Big Island is seeing a sea level rise that is twice the rate of Oahu. And that is because the mass of the volcanoes has not come into equilibrium with the ability of the earth surface to sustain the weight. So the island itself is actually sinking. All the Islands do this in the first million or 2 million years of there history. So the Big Island is seeing a rise of 4 mm per year. This may explain why they don't have as many beaches as Oahu has.

The City and County is responsible for construction set back distances from the shorelines. The set back is set from what is called the administrative shoreline which is defined as the upper reach of the wash of the wave every year. And basically they use the vegetation line to measure that. Today on Oahu, the set back is typically 60 feet. On Maui the set back is typically 120 feet. In neighborhoods that have already been developed, the set backs are 40 feet. 40 feet is the original set back established in about 1972. The original homes along much of our shoreline were built well back from the shoreline. They were smaller homes on post and pier. But what has happened is that the lots have been sub-divided. So the front properties have been sold and there are homes on there now. Chip believes the City should recognize this increased density along the coastal zone is not a good idea in these hazardous areas. The set back is remeasured every time you get a new building permit. But once you have you permit and have measured the 40 feet and you have built the project, then you're there. So you are grandfathered with that 40 feet. If the 40 feet is lost to erosion and then you want a seawall. Since your 40 feet is gone

the seawall permit shouldn't be allowed except they usually give an exception. So that's how the seawall are built. However, the State Department of Land Natural Resource is now not permitting seawall for developments. Now the permits are to install large sand bags. So now they want people start using sand nourishment or beach nourishment in place of building seawalls.

#### LGSEA, from page 4

the LGS revolution (or evolution) in Hawaii, it is Tim Waite. Tim's familiarity with NAHB, NASFA, and other national organizations and personalities, his tireless efforts, his organizational skills, and his long distance lifestyle have been key to LGS's success in Hawaii. Tim brought LGS to Hawaii. Well, good things must end. Tim Waite has resigned as a director of LGSEA-Hawaii and National. Tim has recently accepted a position with the North American Steel Framing Alliance (NASFA) as its director. We will need to fill his vacant position as a Director of LGSEA Hawaii Chapter. Anyone interested in assisting and sitting in on the inner workings of LGSEA, please call Les Nagata. We'll miss Tim but wish him well in his new position.

#### **COMING EVENTS**

September 6, 2001, 12:00 p.m. HI Chapter LGSEA Board of Directors Meeting at Hawaii Pacific Steel Framing Alliance conference room

#### **MEMBERSHIP IN LGSEA**

LGSEA membership is open to engineers, architects, and trades people interested in light-gauge steel framing. \$50 per year. Call Ron Iwamoto at 533-2210 for membership forms

#### Speakers, from page 7

NOV 2 Ardalan Nikou, Earth Tech - To be Provided.

**NOV 9** Wayne Kawano, Cement and Concrete Product Institute - Concrete for Sustainable Construction.

NOV 16 Randy Schmitt, McCorriston, Miller, Mukai & MacKinnon LLP - "It may not be pretty, but its the Law."

NOV 23 No class-instruct. holiday.

NOV 30 Richard Cox, Engineering Consultant - Irrigation Development in Hawaii.

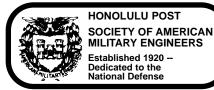
**DEC 7** LGSEA Representative - Light Gauge Steel Construction in Hawaii.



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#### 2001 AUTUMN TECHNICAL FIELD TRIPS

Due to the popularity of the last field trip, the EAAUH is sponsoring another hour-long tour of the Red Hill Facility. Join us on Friday, September 21, 2001 at 3:00 p.m. for a lesson in the history, construction and function of the Red Hill as a source of fuel for Pearl Harbor. As always, pau hana party to follow at Café Bronco! Deadline to sign up is September 14, 2001.

Been there, done that? Then sign up for the EAAUH tour of the Kahe Power Plant! The tour will be held on October 12, 2001 at 2:30 p.m, participants to find own transportation. And yes, pau hana party to follow once again. We just love that Café Bronco. Deadline to sign up is October 3, 2001.

Cost to attend either field trip is \$17/member (no host drinks). Contact Carrie Matsuzaki at 956-2286 to sign up or for more information.

#### COE, from page 1

markets to the faculty and industry what the center has to offer, coordinates the center's events, disseminates information and works closely with other UH units to ensure the center's success.

Recently developed with a \$1 million appropriation from the State Legislature, the HCAC supports research and training on a wide range of advanced communication technologies, with a special emphasis on broadband and wireless communications. Current projects at the center include research on millimeterwave devices and circuits, radio-frequency integrated circuits, communications and coding, signal processing and multi-user detection, multimedia image and video compression, and efficient network control and management.

EE Assistant Professor Audra Bullock, who joined the College this past year, is one of the faculty researchers affiliated with HCAC. A specialist in laser and optics, Bullock received her master's degree and doctorate from Old Dominion University. Her doctoral dissertation was entitled "Resolution of overlapping modulation spectroscopy." While pursuing her doctorate, Bullock gave lectures in electromagnetics and lasers. She has also worked as a trainee at the NASA Goddard Space Flight Center.

Another new addition to the EE department is Assistant Professor Anders Host-Madsen, who specializes in signal processing and communications systems. Host-Madsen holds a doctorate in mathematics and a master's degree in electrical engineering from the Technical University of Denmark. He has previously taught at the University of Calgary in

Canada and the Kwangju Institute of Science and Technology in Korea. In addition, he has also worked as a research engineer with Dantec Measurement.

The ME department welcomed Assistant Professor Carlos Coimbra, a specialist in fluid mechanics as well as heat and mass transfer. Coimbra holds a doctorate from the University of California at Irvine (UC Irvine) and a master's degree from the Technical University of Lisbon in Portugal. His doctoral dissertation was entitled "Unsteady motion and heat transfer of small particles in suspension." Coimbra has received support from NASA for one of his research initiatives entitled "SHIVA: A Spaceflight holography investigation in a virtual apparatus." The project will be conducted in the International Space Station (ISS), which is currently under construction to replace the Russian space station Mir. Due to the high costs associated with ISS, only research proposals deemed the most promising by NASA will be performed in the station. Prior to joining the College, Coimbra taught fluid mechanics at the Drexel University and was a post-doctoral fellow and assistant specialist at UC Irvine.

Joining the CE department is Assistant Professor Si-Hwan Park, an expert in computational mechanics and structural dynamics. Park obtained his doctorate from the University of Texas at Austin and his master's degree from the Seoul National University in Korea. His doctoral dissertation was entitled "Methods for the numerical analysis of wave motion in unbounded media." While pursuing his doctorate, Park worked as both a research assistant and a teaching assistant.

Looking ahead into the new millennium, the College is poised to be your partner in this time of change. The College will continue to strive for excellence in engineering education and research, and in supporting the local engineering community as well as the development of Hawaii's high tech industry. With its high-caliber students, faculty, staff and alumni working together, the College will undoubtedly achieve new levels of excellence in the years to come.

Wendy Chen is Newsletter Editor for the University of Hawaii College of Engineering.



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