

ASME-HAWAII SECTION 2001 OUTSTANDING ACHIEVEMENT AWARD

The first place entry for the Hawaii Section of the American Society of Mechanical Engineers (ASME) Year 2001 Project or Design Outstanding Achievement Award goes to the Hamakua Energy Partners 65 MW Combined Cycle Power Plant. The runner-up is the AES Hawaii - New FRP Cooling Tower.

This is the sixth straight year that ASME-HI Section has presented this award for projects or designs relating to mechanical engineering. A panel of independent judges selects the annual awardees based on which project or design provides the greatest benefits to owner and customer in economics, social, and environment aspects and shows outstanding use of mechanical engineering principles.

Hamakua Energy Partners 65 MW Combined Cycle Power Plant

This new combined cycle power plant is built at the site of the former Hamakua Sugar Co. mill in Haina, a community north of Honokaa on the Big Island. When operating at full capacity, the Hamakua Energy Partners Power Plant (HEP) electric production will represent approximately 1/3 of the Big Islands total consumption needs.

As a combined cycle power plant, HEP utilizes the exhaust heat from two combustion turbines as the heat source for the heat recovery steam generators (HRSG) that produce enough superheated steam to operate a 20-megawatt steam turbine-generator. This results in an efficient use of energy.

As being a cogeneration facility, HEP diverts a portion of the steam that is generated from the HRSG to such uses as aquaculture (a tilapia fish farm). The combined cycle and cogeneration aspects make this power plant the most efficient fossil fueled plant on the Big Island.

The heart of the HEP facility is two GE LM 2500 aeroderivative gas turbine-generator sets. These engines are currently one of the most widely used in the industry, which are used on DC-10, MD-11, A300, 747 and 767 aircraft as well as over 870 LM2500 engines in service on ships for over 24 international navies world wide. The HEP engines will produce over 22 megawatts of electricity each.

This facility employs the latest in safety features. In the event of an emergency, the plant will shut itself down and systems such as fire protection will automatically actuate leaving the plant in a safe condition.

In addition, HEP employs the latest in emissions control technology using only clean low sulfur content naphtha fuel (with diesel as a back-up fuel), water injection in the combustion turbines and ammonia injection (selective catalytic reduction system) in the HRSGs for



AES Hawaii New Cooling Tower
Day 19 – Four Cells Completed and Ready for Operation.
Fifth Cell was Completed on Day 21.

reducing NOx emissions.

HEP is a 50/50 partnership between J.A. Jones Ventures, Charlotte, NC and TECO Power Services Corp., Tampa, Fla. J.A. Jones Ventures is a developer and equity owner of power, infrastructure and special purpose projects. TPS, a subsidiary of Tampa Electric Company, builds, owns and operates electrical facilities throughout the Americas. Larry Kafchinski, the HEP general manager, submitted this nomination.

AES Hawaii - New FRP Cooling Tower

In March of 2000, AES Hawaii, Inc. (a coal-fired cogeneration power plant located in the Campbell Estate Industrial Park) replaced its deteriorating Douglas fir structural member cooling tower with one of vinyl ester fiberglass reinforced plastic (FRP).

Several important engineering evaluations needed to be made.

The appropriate material needed to be selected to achieve longer life than the previous design, the new cooling tower had to be designed for wind loads of up to 120 mph (as opposed to the 80 mph design of the existing tower), and the replacement had to be completed in 19 days. Out of the five manufacturers considered, no manufacturer had ever demolished and replaced a five-cell cooling tower in less than one month.

AES selected FRP since it offered superior resilience to erosion and degradation from the caprock water (95% seawater, 5% freshwater) used in the plant's circulating water system.

With Hurricanes Iniki and Ewa striking the Islands in the last two decades, AES believed it essential to strengthen the structure to ensure

long-term reliability. This challenge was overcome with a new cross bracing scheme, which maximized load transfer to the existing foundation.

The most difficult challenge was to demolish the existing five-cell cooling tower and replace it with a new FRP tower in the 19-day duration of the AES 2000 turbine outage. This challenge was approached from an operations and a method of construction perspective. Since it is possible to run the plant on four cells, AES concentrated on finishing four cells in the 19 days and then finish the last cell after starting up. For a method of construction, AES used the "bent-line" method, which involves the prefabrication of transverse sections in an area adjacent to the tower. Of the 45 bents in the tower, 39 were pre-assembled prior to the outage.

The new tower utilizes a patented up-spray water distribution system that improves overall heat transfer of the cooling tower and reduces the temperature of the circulating water.

Todd Kanja, AES Project Engineer, submitted this project.

ASME-HI's Project or Design Outstanding Achievement Award is made annually. Deadline for nominations is April 30. The nomination process is made very simple so that the busy engineers and executives are not overburdened with additional tasks in their already overwhelming workloads. Everyone is welcome and is strongly encouraged to submit an entry. You do not have to be a mechanical engineer. The first place and runner-up receive attractive plaques to proudly display on their office walls. Contact Ed Chang of ASME-HI for more information.



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

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HOME PAGE:
<http://www.eng.hawaii.edu/~hces/HCESHome.html>

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	Maelyn Uyehara	521-2641
Past Pres.	Richard Campbell	834-3103

HCES MEETING HIGHLIGHTS

July 3, 2001

CHAIRPERSON

Ather Dar and Layton Nakao were unanimously accepted as Chairperson and Vice Chairperson, respectively.

WILIKI O HAWAII

Cover articles are needed for the November and December 2001 issues. Please submit your articles to Warren Yamamoto at wyamamoto1@co.honolulu.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 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
9. 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

AMENDMENT OF CONSTITUTION

The amendments to the Hawaii Council of Engineering Societies Constitution were unanimously approved, with the exception that the amendment to Section 6.2 was approved by a 10 to one (1) vote. Please visit our website at <http://www.eng.hawaii.edu/~hces/HCESHome.html>, contact Joanna L. Seto, HCES Secretary, at 586-4329 or jseto@eha.health.state.hi.us for a copy of the approved amendments dated July, 2001.

NEXT MEETING

Date: Tuesday, August 7, 2001 (subject to change)
Time: 12 Noon
Place: Plaza Hotel Restaurant, 3253 N. Nimitz Hwy.
RSVP: Ather Dar via hces@yahoo.com



PO Box 12204 Honolulu, HI 96828

OFFICERS

President:	Kely E. Ota	527-6144
Vice Pres:	Jamie T. Hikiji	521-3051
Secretary:	Bryce T. Yonemura	225-4113
Treasurer:	Warren H. Hayakawa	543-7060

DIRECTORS:

Lloyd P.C.W. Lee
Michael Y. Magaoay
Randolph H. Murayama
Wayne H. Nakamura

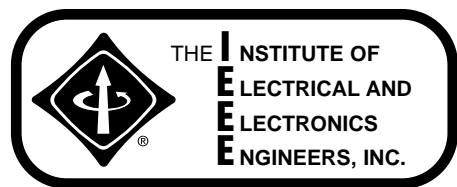
2001 ANNUAL GOLF TOURNAMENT

It has been another successful year for the EAAUH Annual Golf Tournament Fundraiser. Nearly 250 Alumni and friends gathered at the Leilehua Golf Course on July 26, 2001 for a day of golf, fellowship and goodwill to raise funds for six UH College of Engineering Freshman Scholarships. Thanks to the generosity of our sponsors and participants, the EAAUH was able to achieve its fundraising goal once again.

The planning committee would like to thank the College of Engineering and many volunteers for their assistance, and they would like to recognize this year's hole sponsors:

- Akinaka & Associates, Ltd.
- Belt Collins Hawaii Ltd.
- ControlPoint Surveying, Inc.
- Engineering Concepts Inc.
- Hawaii Pacific Engineers, Inc.
- HonBlue, Inc.
- KAI Hawaii Inc.
- Kim & Shiroma Engineers, Inc.
- Koga Engineering & Construction, Inc.
- KSF, Inc.
- Lyon Associates Inc.
- M&E Pacific, Inc.
- Mansonry Institute of Hawaii
- Park Engineering, Inc.
- R.M. Towill Corporation
- Randolph H. Murayama & Associates, Inc.
- Ronald N.S. Ho & Associates, Inc.
- Sato and Associates, Inc.
- SEY Engineers
- Tom Nance Water Resource Engineering
- URS Corporation
- Verizon Hawaii
- Wesley R. Segawa & Associates, Inc.
- Wilson Okamoto & Associates, Inc.

Mahalo and thank you for your support. See you next 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:	Tej Dobry	956-9740





www.eng.hawaii.edu/~hspe

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Pres-Elect	Scott Seu sseu@hei.com	543-4500	543-4511
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2nd VP	Riley Smith rsmith@parkerranch.com	885-2306	885-5602
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Past Pres	Curtis Beck cbeck@hei.com	969-0134	969-0135
Nat Dir	Bruce Witcher bewitch@ihawaii.net	334-0322	334-0831

HSPE INSTALLS OFFICERS

Mr. David Waugh, PE, F.NSPE, immediate past president of the National Society of Professional Engineers visited Hawaii in mid June to attend the Hawaii Society of Professional Engineers annual meeting and to install the State and Chapter officers of HSPE. Mr. Waugh installed Kirk Tanaka, PE, LS, NSPE of the Maui Chapter as HSPE state president during a dinner installation on June 16. The list of officers installed were printed in the July issue of Wiliki O'Hawaii.

SCHOLARSHIP GOLF TOURNAMENT

Attention all Golfers and Hackers. Plan on participating in and supporting the 10th Annual HSPE 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. Notices are being sent out at the end of July. If you don't get yours, contact tournament chair Larry Agena or Royden Ishii at Belt Collins, phone 521-5361, or email: royden@beltcollins.com.

STATE BOD DIRECTORS MEETING HIGHLIGHTS

Maui Beach Hotel, June 16, 2001

Highlights:

President Curtis Beck presided. A quorum was not present; material presented to the Board was informational only. Present for the meeting was distinguished guest Mr. David Waugh, immediate past-president of NSPE.

Treasurer's Report

Treasurer's report was submitted in advance for the record by Ken Rappolt. The Society's finances are currently sound, and expenses did not exceed income for the 2000-01 fiscal year ending June 30, 2001. There will be no change in HSPE dues (\$35) for the 2001-02 fiscal year. Budget for 2001-02 is in preparation and will be submitted to the Board at the October BOD meeting.

Announcements

NSPE 2001 Convention and Exposition will be held in Detroit on July 27-30. Attending from HSPE will be National Director Bruce Witcher and PEI Chairman Clyde Nagata. Clyde will be honored in Detroit as a distinguished Fellow of NSPE, for his service to the profession and the community. Congratulations, Clyde!

Western Region: Results of balloting for Western Region vice-president elected Sam Grossman of the California Society as VP-Elect, and Cliff Ishii of CSPE as representative to the NSPE Nominating Committee. The Western Region VP represents HSPE and other Western region state societies on the NSPE Board.

Proposed Amendments to Constitution and By-Laws:

Clyde Nagata submitted for Board review several amendments. Amendments mainly had to do with aligning the membership structure of the Society with NSPE's new structure. Member categories will henceforth be: Licensed Member, Member, Fellow Member, Honorary Member, and Student Member.

The duties of the National Director were modified to reflect that the ND no longer represents HSPE at the NSPE Board of Directors, this representation being now by the regional vice-president. Bylaws were modified to allow for electronic voting for HSPE officer elections, and the creation of an HSPE website.

For more information, contact your State officers via the HSPE website at www.eng.hawaii.edu/~hspe.

MATHCOUNTS:

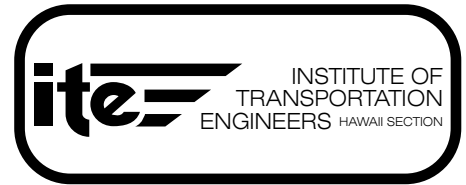
David Waugh confirmed that the 2002 MATHCOUNTS Championships will be held at the University of Chicago, contrary to the wishes of NSPE. Chicago is not felt to be an appropriate venue for a MATHCOUNTS event, as student mathletes will miss out on all the educational opportunities that the Washington D.C. site had to offer. Efforts will continue to convince the MATHCOUNTS Foundation to return the competition to Washington D.C. in 2003.

A mahalo letter was received from the State MATHCOUNTS team that represented Hawaii at the National Championships on May 12.

Membership Committee

There were 286 members as of May, 2001, a decline of seven (7) from the year previous. Total membership of NSPE stands at 56,672.

The "Hawaii Road Show" HSPE membership recruitment workshop is scheduled for *(continued on page 6)*



2000-2001 Officers

Name	Office	Phone	Fax
C.S. Papacostas	Director	956-6538	956-5014
csp@wiliki.eng.hawaii.edu			
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civil@wilsonokamoto.com			
Terry Brothers	Vice-Pres	949-7334	943-7951
brothers@wilbursmith.com			
Richelle Suzuki	Secretary	541-2530	541-2700
richelle.suzuki@fhwa.dot.gov			ext. 311
Fred Smoot	Treasurer	841-7617	842-1819
ppihni@aol.com			

JUNE MEETING HIGHLIGHTS

On June 26, 2001, the ITE Hawaii Section met at the Hawaii Department of Transportation, Kapolei office.

Mr. Wayne Kawano announced that the Hawaii chapter has submitted a proposal to host the annual ITE district meeting in 2006. He also announced that the ballots were sent out for the new officers for 2002. Please vote and mail back ballots by August 10th.

Our guest speaker was Mr. George Stewart, Chairman of CCPI Paving Committee, who made a presentation on Ultra Thin Whitetopping (UTW) which is being used increasingly nationwide as an alternative to rehabilitation of our roads, airports, etc. UTW is a thin layer, 4" or less, of high performance fibrous concrete that is placed over a milled existing asphalt surface. This method economically enhances the durability of the pavement for a long-term solution rather than a quick fix. Ideally, a full concrete slab replacement would be preferred wherever feasibly possible for an even a longer-term solution. However, UTW can be designed to open the road to traffic within 24 hours with an approximate flexural strength of 546 psi and a compressive strength of 3560 psi.

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 Web Page: www.lgsea.com

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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

SHEARWALLS PRESENTATION

(Sponsored by Hawaii Steel Alliance and LGSEA)

Various manufacturers of proprietary shear-wall systems will be invited to describe their lateral resisting system. Z-Wall, Sure-board, and Hardy Frame will give presentations.

WHEN: AUGUST 14, 2001, 5:30 TO 8:30 PM

WHERE: HONOLULU COUNTRY CLUB

COST: \$27.00

Call Sylvia at 485-1400 to sign up.

PRACTICAL DESIGN OF COLD-FORMED STEEL STRUCTURES

(See also flyer in this Wiliki)

WHEN: SEPTEMBER 13, 2001,
8:00 AM TO 5:00 PM

WHERE: ALA MOANA HOTEL

COST: \$150 Tuition, \$100 for LGSEA members, \$50 Student rate

Interested engineers, architects, and trades people may call Les Nagata (951-5916) or Sylvia Roney (485-1400) for more information.

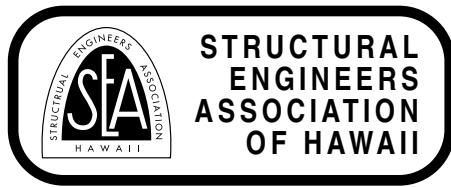
COMING EVENTS

August 7, 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.

**DEADLINE
FOR SUBMITTING
WILIKI ARTICLES IS
THE 15TH OF THE MONTH
BEFORE PUBLICATION**



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

2001 OFFICERS & DIRECTORS

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

HIGHLIGHTS OF BOD MEETING

July 2, 2001

Reviewed and approved treasurer's report. Current general checking account balance: \$4,486.55. Current money market account balance: \$5,933.76. Current convention checking account balance: \$6,343.78.

Structural Engineer of the Year Award: The Board discussed and did not accept the program description and criteria for the Structural Engineer of the Year Award. The Board favored a longer period of evaluation criteria or a structural project of the year type award. The Board recommendations will be sent to the committee.

Summary/Financial Update for June 21 SEAOH General Membership Meeting: The Board reviewed and accepted the Income and Expenditures Report for the meeting prepared by Tom Tanimura.

New Member Applications:

Evan A. Mizue, Chris J. Shellane, and Frank Humay of Baldrige & Associates have applied for membership as Allied Members. His application will be voted on in the September Board of Directors Meeting.

Todd P. Dwight of Baldrige & Associates has applied for membership as a Member. His application will be voted on in the September Board of Directors Meeting.

John D. Chesak of Baldrige & Associates has applied for membership as an Associate Member. His application will be voted on in the September Board of Directors Meeting.

Brian Enomoto of Martin & Chock, Inc. has applied for membership as an Allied Member. His application will be voted on in the September Board of Directors Meeting.

Hawaii Local Technical Assistance Program (LTAP) Partnering Agreement:

Dennis Hanatani reported that the partnering agreement with Hawaii LTAP was signed by Tom Tanimura and Dennis Hanatani.

NCSEA/WCSEA Conventions:

Delegates: Tom Tanimura will attend the NCSEA Convention. Glenn Miyasato will attend the WCSEA Convention, which will be held on September 20, 21, and 22, 2001 in Park City, Utah.

Nomination of 2002 Officers:

The Board (Nomination Committee) prepared a preliminary list of prospective candidates for 2002 Officers. Glenn Miyasato will be contacting the candidates.

Correspondences:

SEA Northwest Conference, August 2-5, 2001.

Received various newsletters from SEA organizations: California and Oregon.

Committee Reports:

Program: Tom Tanimura presented an updated schedule of upcoming meetings and seminars.

2001 Annual Convention on Kauai: Glenn Miyasato presented a list of members who are registered to attend the convention. Members are urged to return registration forms as soon as possible to ensure registration for the convention.

Disaster Response: Steve Baldrige circulated a list of members who are registered as disaster response volunteers for verification and updating at the June 21, 2001 general membership meeting. Members interested in participating on the Disaster Response Committee or volunteering for disaster response should contact Steve Baldrige.

2001 CALENDAR OF EVENTS

August 3 & 4, 2001 - SEA OH 2001 Annual Convention, Sheraton at Poipu Beach in Kauai.

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, August 6, 2001 at Dennis K. Hanatani, Inc.

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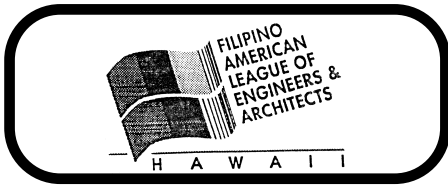
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	<i>gbipe@aol.com</i>	
Pres.-elect	Oscar C. Paez, Jr.	676-2797
	<i>paezarch@lava.net</i>	
Vice-pres.	Rogelio A. Urbi	693-8913
	<i>raurbi@aol.com</i>	
Secretary	Elvira Marie B. Pineda	290-6043
	<i>elvi2800@hotmail.com</i>	
Treasurer	Salome Q. Belmes	671-4428
	<i>belquibol@aol.com</i>	
Asst. Treas.	Jose P. Magno	671-6753
P. R. O.	Emilio F. Barroga, Jr.	677-0659
	<i>ebarroga@hgea.org</i>	
Bus. Manager	Marites C. Shoji	678-8655
	<i>mshoji@norman-wright.com</i>	
Auditor	James V. Baclig	674-1161

WELCOME!...New Member

Rowena Urganan - BSIE '82 (Adamson University)

ANNUAL GENERAL ASSEMBLY MEETING

Saturday - August 4, 2001 at Group Builders Inc. Warehouse conference room in Sand Island.

Time: 10:00 AM - 12:00 Noon (Check-in will begin at 9:00 AM)

The purpose of the meeting are as follows:

1. To receive the annual reports of the current Officers and Directors,
2. To amend the Constitution and By-laws of the organization (if any),
3. To count the ballots for the 2001-2002 Officers and Directors, and
4. To transact other business (if any) as deemed necessary.

FILCOM CENTER

Construction is going on as scheduled, and negotiation is underway to have the firm of Architects Hawaii Ltd. do the interior design of the project.

FUNDRAISING

A "big mahalo" to all our supporters for the past Zippy's Chili, and Bob's Hawaiian Style Chicken fundraisers to support FALEA's programs and projects.

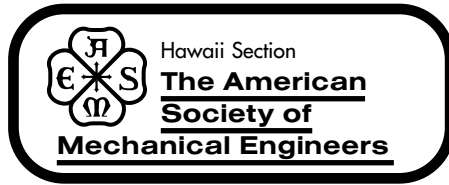


1999-2000 CHAPTER OFFICERS

		Phone	FAX
President	Jay T. Higashi	526-9019	537-5385
Vice-Pres	Bob Lohaus	833-4095	
Secretary	Mel Harano	848-6966	848-6964
Treasurer	Samuel Dannaway	526-9019	537-5385

ADVANCED FIRE ALARM SYSTEMS DESIGN SEMINAR

The Hawaii Chapter of the Society of Fire Protection Engineers is sponsoring this excellent seminar through a special arrangement with the Society of Fire Protection Engineers and the Automatic Fire Alarm Association. This seminar is a must for those responsible for design and plan review of fire alarm systems.



1999-2000 OFFICERS

Chairman	Chester Kaitoku	527-6063
Vice Chair	Guy Pasco	543-4451
Secretary	Ron Flegal	455-0254
Treasurer	Ed Chang	543-4227
Dir 1 year	Sam Gillie	543-4739
Dir 2 year	Jay Higashi	526-9019
Past Chair	Chester Kaitoku	527-6063

MEETING NOTICE

Executive Committee Meeting

Date: To Be Announced Later
 Quarterly Executive Committee Meetings or tours are planned.

NEW HAWAII SECTION OFFICERS

Our ballots and surveys were mailed the first of July. As of July 11, 2001, only 28 (out of 252) completed ballots and surveys were received. The deadline was set at July 31, 2001. Next year we will accept faxed ballots and surveys so may be more members will respond. The members on the ballot were:

Chairperson:	John Yamamoto
Vice-chairperson:	James Grogan
Treasurer:	Chester Kaitoku
Secretary:	Sam Gillie
Director (1-yr):	Ed Chang
Director (2-yr):	Ron Flegal

Results of the survey will be reported in future Wiliki issues.

TECHNICAL CHAPTER-POWER DIVISION

The July 11, 2001 technical chapter meeting was held as scheduled at HECO's Waiau Power Plant, Visitor Center. Attending were Joe Bradley, Ed Chang, Charley Kinoshita, and Wes Tyau. The chapter by-laws were reviewed and after a couple of changes were made the by-laws were approved. To get the chapter moving, tours will be planned initially. Tour suggestions included military surface ship engine rooms, power plants on the Big Island and Oahu, HECO microturbine, and Oahu's remaining windmills. Joe Bradley will look into touring the Missouri engine room. Certain technical training will be announced as the opportunity arises. An alliance will be initiated with ASNT-HI and AWS-HI since these societies have many similar interests. Reviewers for those writing technical papers will be listed. The next chapter meeting will most likely coincide with the first tour.

Date:	Wednesday to Friday August 15, 16, & 17, 2001
Time:	7:30 am to 4:30 pm
Location:	Building 1200 CEX, (Readiness) Training Room, Hickam Air Force Base.
Cost:	\$395 (\$295 SFPE members, Chapter Friends, AFAA members)
Deadline:	The registration deadline is Friday, August 10, 2001.

To register for the seminar go to <http://www.sfpehawaii.org/seminars.htm> and download the seminar brochure, fill it out and print it out or print it and fill it out, and send mail it in.

For additional information on upcoming seminars contact the programs chair of sfpe hawaii at seminars@sfpehawaii.org.



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
Treasurer	Eric Hee	591-8116
Director	Kevin Kea	521-7491
	David McDonald	536-2705
NSPS Gov	Patrick Cummins	247-6602
Past Pres	Layton Nakao	543-7317

ANNOUNCEMENT:

What: HALS general membership meeting
 Date: July 26, 2001

Time: 6:00 p.m.

Place: Asing Park on Renton Road in Ewa

Guest Speaker: Randy Hashimoto (State Land Surveyor)

Subject: "Shorelines"

Time: 7:30 p.m.-8:30 p.m.

HAWAII ASSOCIATION OF LAND SURVEYORS PRESENTS Data Collection Workshop

Asing Park in Ewa
 Saturday, August 4, 2001
 9:00 AM till 3:00 PM

Featuring Mr. Jerry Nishimoto (Park Engineering) & Mr. Stephen Okuhara (ESH)

Demonstrations on the "Wild" on board module, "Ranger" & "HP95" with TDS software

Cost: \$10.00 (Mem.), \$13.00 (Non-Mem.)

(Lunch & drinks are included)

Call Eric Hee at 591-8116 to register.

HSPE, from page 3

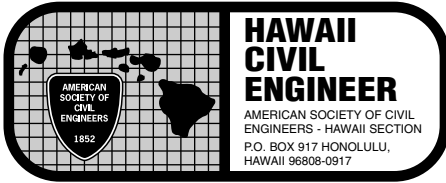
November 16-17 at a location to be determined. NSPE's consultant, Annette Petrick, will lead the workshop participants in the development of a membership recruitment plan. Funding will be available from NSPE to the Hawaii Society for the implementation of the plan. Participation in the workshop is encouraged and is open to all HSPE members. Those members who would like to participate should contact Curtis Beck, cbeck@hei.com, or telephone 969-0134.

Members are reminded that their continued membership in NSPE is vital to the Hawaii Society. The Hawaii Society receives dues only from NSPE members, the major source of its income. Each and every NSPE membership in the State of Hawaii means revenues of \$35 to the Hawaii Society, enabling HSPE to meet its obligations to the members to serve and enhance the profession. It pays the bills! Contact your local chapter officers for more information.

Licensing Examinations

HSPE continues to pursue the return of professional engineering licensing exams to the Neighbor Islands (all licensing exams are currently held on Oahu). A letter was sent April 30 to the EASLA Board requesting information on the cost of holding exams on the Neighbor Islands, and proposing that HSPE subsidize the cost to make them feasible.

Next Meeting: Friday, October 12, 2001, in Honolulu. Scholarship Golf Tournament to be held that afternoon.



Website: www.ascehawaii.org

2000-2001 OFFICERS

	Phone	Fax
President Joanna Seto	586-4329	586-4352
	<i>jseto@eha.health.state.hi.us</i>	
Pres-Elect Tony Lau	524-3771	538-0445
	<i>tlau@hawaiiapacificengineers.com</i>	
Vice-Pres Horst Brandes	956-8969	956-5014
	<i>brandes@willki.eng.hawaii.edu</i>	
Secretary Westley Chun	488-0477	488-3776
	<i>Engrsol@gte.net</i>	
Treasurer Keith Niiya	533-3646	526-1267
	<i>kniiya@atahawaii.com</i>	
YMF Dir Willie Gacutan	847-3763	843-0294
	<i>wgacutan@hotmail.com</i>	
Past-Pres C. Michael Street	681-5221	699-2035
	<i>StreetC@USFilter.com</i>	

AUGUST DINNER MEETING

Program: 1) Election of FY 2002 Officers. See the article below for more information on the nominees. 2) Jadine Urasaki, Deputy Director for the State Department of Transportation, will speak on the "Investigation of the Effects of Limited Ramp Closures on H-1 Freeway". The presentation will focus on affordable ways for creating more carrying capacity through the congested, central portion of the H-1 Freeway. Simulation of dozens of scenarios shows that a selective combination of spot improvements can substantially decrease travel times in both directions of the freeway.

Date: **Thursday, August 16, 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, August 13, 2001. Reservations to Keith Niiya by Monday, August 13, 2001 by phone at 533-3646 or fax at 526-1267.

EXECUTIVE COMMITTEE MEETING HIGHLIGHTS

July 5, 2001.

2001 CALENDAR OF EVENTS

(subject to change)

September 20, 2001 - Dinner meeting - hosted by Ocean & Energy Committee and YMF.

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

NOMINATING COMMITTEE PROPOSES SLATE OF FY 2002 SECTION OFFICERS

The 2001 Nominations Committee is please to announce the following slate of officers for FY 2002. Tony Lau, who was elevated to the position of President-Elect in October 2000, will lead the Hawaii Section as President. In addition, Willie Gacutan will continue to serve as the Younger Member Forum Director for the sec-

ond year of his elected term. Nominees for the remaining Executive Committee positions are as follows:

President Elect - Horst Brandes
Vice President - Westley Chun
Secretary - Keith Niiya
Treasurer - Walter Billingsley

The committee nominated current officers Horst Brandes, Westley Chun, and Keith Niiya to continue in succeeding positions. A brief biographical sketch for Walter Billingsley is provided below.

Treasurer Candidate - Walter Billingsley

Walter is a civil/sanitary engineer with Belt Collins. He was born in Olympia, Washington; grew up in the countryside south of Olympia; and graduated from high school in the big little town of Chehalis. From there, he attended several Washington community colleges and the UH before receiving his first university degree in Geography and Environmental Studies from the University of Victoria in British Columbia. After graduating, he worked for the provincial Ministry of Environment for several years, at which time he met and married his wife Marilyn (a Kauai native).

The family moved to Honolulu in 1985 where Walter earned both bachelors and masters degrees in Civil Engineering from the UH. Since his student days, Walter has been active in the Hawaii Section. He previously was a student liaison and participated in the Student Outreach Program, and currently is the Chair of the Awards Committee.

Walter and Marilyn have two teenage boys. Besides his ASCE activities, Walter is also active in Hawaii Water Environment Association. He enjoys playing tennis and running on a regular basis, and getting "down and dirty" with fix-it-yourself car repairs. He also enjoys family vacation trips, normally including some camping and hiking, to places such as national parks in both Canada and the U.S.

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 by telephone or *kniiya@atahawaii.com* by email, 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

(continued on page 8)

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ASCE, from page 7

updates on ASCE activities such as legislative affairs, Section meetings, and field trips. 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.

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.



2000-2001 OFFICERS

		Phone
Director:	Willie Gacutan	847-3763, x212
	wgacutan@hotmail.com	
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	jamie_hikiji@metcalfeddy.com	
Social/Comm.Act	Jeff Kalani	593-1116
	jeff_kalani@urscorp.com	
Web page:	Lori Ikeda	455-3569
	lori@ikedanet.com	
PE Refresher Course	Tony Lau	524-3771
	tlau@hawaiiapacificengineers.com	
Past-Dir:	Lorna Heller	527-5202
	lornagreg@yahoo.com	
St/Liais	Lori Nishida	956-5808
	lornish@hotmail.com	

The ASCE Hawaii Younger Member Forum will be hosting an after work fundraiser at Oceans Club on August 27th from 6 – 11 PM. Tickets are \$10 and cover admission, all-you-can-eat pupus, door prizes and live entertainment. Proceeds will benefit the ASCE Student Chapter at the University of Hawaii. For ticket information please call Lori Nishida at 583-7489.

KNOW YOUR ASCE HISTORY

by C.S. Papacostas

I have made it a habit to attend the sessions of the graduate seminar offered by the Department of Civil Engineering at the University of Hawaii during each academic year. Six weeks ago, the featured speaker was ASCE-Hawaii past President James Kwong. His topic was "Risk Reduction for Microtunneling and Horizontal Directional Drilling," based on a recently completed sewer improvement project in the vicinity of the Honolulu harbor.

Having dispensed with the technical questions following James' presentation, I asked him whether the underground project encountered anything of historical significance. After all, the project area was at the heart of the old town where today's metropolis had its beginnings. For example, the first water supply pipe in Honolulu was started in 1847 and ran from a kalo field on Beretania Street to the wharf area at the foot of Nu'uaniu Avenue.

It was in that general area that, according to

James, drilling brought up many pieces of metal which, upon closer examination, turned out to be discarded horseshoes! Horses, of course, played a major role in the development of Hawaii. They made overland travel easier, opened up relatively inaccessible areas, facilitated (with the help of vaqueros from Spanish California) the development in the 1830s of the cattle business and Hawaii's "paniolo" (from "español") tradition.

According to George S. Kanahele's account of "Waikiki: The Untold Story," it was the horse and improvements to the Waikiki Road that transformed Waikiki from a hamlet to a thriving residential and resort area during the time of the ali'i. It was also the horse that made it convenient for early visitors to Hawaii (including Mark Twain) to visit the Nu'uaniu Pali on Oahu, the Kilauea Volcano on the Big Island and numerous other "visitor destinations."

"Firsts and Almost Firsts in Hawaii" by long-term and now retired state statistician Robert C. Schmitt, indicates that horses were introduced to "Toogah" Bay (?) and to Maui in 1803. They were brought over by Richard J. Cleveland aboard a merchant ship commanded by Captain William Shaler. In his "Mo'olelo Hawaii," chronicler David Malo lists among the "imported animals from foreign lands ...[t]he horse (lio), a large animal. Men sit upon his back and ride; he has no horns on his head."

Kanahele states that horses were first called "wa'a holo honua" meaning "canoes that travel on land," but the common name for a horse is, as Malo indicates, lio. The similarity between this name and 'ilio (dog) has puzzled etymologists over the years. The leading theory, according to "Hawaiian Grammar" by Samuel H. Elbert and Mary Kawena Pukui, is that 'ilio and its variants may have served as a generic term for quadrupeds. They cite usage of "lio hulu" (hairy quadruped) and "lio weuwu" (fuzzy quadruped) for sheep, "lio nui" (large quadruped) for horse, and "'ilio hohono" (smelly quadruped) for skunk.

Another famous Hawaiian historian, John Papa Ii, recalled in his "Fragments of Hawaiian History" his first encounter with a horse when he was 8 or 9 years old around 1809 and wondered with his father how many fancy tobacco pipes it would take to trade for one. He finally resigned himself to constructing a toy horse out of a banana stalk.

Describing events that happened around 1825, Samuel M. Kamakau in his "Ruling Chiefs of Hawaii" says: "A great deal of property was taken, among other things horses and cattle, which had become numerous on Kauai because the foreigners had given many such to Ka-umu-ali'i. On Oahu there were only few which had been brought by John Young and Kamehameha from Kauai in 1809; afterward more were brought in by Don Marin." Parenthetically, Captain George Vancouver first brought cattle to Hawaii at Kealakekua Bay in 1793.

At any rate, the horse became an every-day necessity and spurred a new industry. An 1860 photograph by Henry L. Chase pointing mauka from the corner of unpaved Fort and Hotel Streets shows the artist's studio (HALE PAI KIL or House of Photography) on the makai-ewa corner. Two establishments on the ewa side of

Fort Street follow displaying signs that say HORSES LET and KELLY'S STABLES/HORSES LET. Across the street, although obscured by a post, another sign clearly advertises SADDLES.

Horses also became a great means of recreation for Hawaiian natives of both genders. Schmitt mentions, for example, that horse racing became a rage "in open areas or along public roads" and "racing was common along Wilder Avenue." Eventually (in 1877) formal horse racing was moved to a one-mile oval course in newly opened Kapi'olani Park.

In her 1873 collection of letters, "Six Months in the Sandwich Islands," Isabella L. Bird begins her Hawaiian adventure by describing 200 saddled horses standing on the wharf, near the place where James Kwong discovered the discarded horseshoes I suppose, and continues: "[T]hese belong to the natives, who are passionately fond of riding. Every now and then a flower-wreathed Hawaiian woman, in her full, radiant garment, sprang on one of those animals astride, and dashed along the road at full gallop, sitting on her horse as square and easy as a hussar." Proper manners of those times prevented women from riding astride. This is evident in Kamakau's illustration that chiefess Kapi'olani, having adopted missionary customs, "when she rode on horseback... she used only the sidesaddle."

Upon returning from a visit to the Nu'uaniu Pali on her first day in Hawaii, Isabella Bird observes: "Saturday afternoon is a gala-day here, and the broad road [Nuuanu] was so thronged with brilliant equestrians that I thought we should be ridden over by the reckless rout. There were hundreds of native horsemen and horsewomen... The women seemed perfectly at home in their gay, brass-bossed, high peaked saddles, flying along astride, bare-footed, with their orange and scarlet riding dresses streaming on each side beyond their horse's tails." (The sight must have made a similar impression on Mark Twain who described female riders as "sweeping by like the wind.")

Isabella Bird continues into town: "In the shady, tortuous streets we met hundreds more of native riders, dashing at full gallop without fear of the police." And later in her book, "Except for short shopping distances in Honolulu, I have never seen a native man or woman walking. They think walking a degradation, and I have seen men take the trouble to mount horses to go 100 yards."

Along the same line, Kanahele quotes Una Hunt Drage, a turn of the century visitor to Waikiki: "The natives... are always on horseback, sometimes father, mother and two children, crowded, arms around waists, on the same horse..." Not much different from the present-day use of the "horseless" carriage, the "insolent chariot," the private car!

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; e-mail address: csp@wiilki.eng.hawaii.edu). Previous articles in this series may be found at the Section's web site. Just point your browser to <http://www.ascehawaii.org>.



P.O. Box 30907, Honolulu, HI 96819

CHMM CERTIFICATION

The Hawaii Chapter of Certified Hazardous Materials Managers (CHMM) is sponsoring the national CHMM Certification exams will be given in Honolulu on September 14, 2001. Passing the national CHMM exam is a prerequisite to CHMM certification. The CHMM certification is a national program that identifies professionals in the environmental and hazardous materials management fields that have attained a peer-reviewed level of education, experience and competence.

Anyone within the SAME membership who might be interested in learning more about the CHMM credential and how it may enhance their expertise and recognition within the environmental field should contact Warren Hall of EA Engineering, Science, and Technology, Inc., at 239-0045. He is also VP of the Hawaii Chapter of CHMM.

CORPS 2002 MILCON PROGRAM OVER 3 BILLION

The FY 02 MILCON Budget had more than \$1 Billion added by the Secretary of Defense and it is now more than twice the size of the FY 01 Budget. It may get even larger after the Congress enacts the appropriate legislation (since they normally add 30+ projects and \$300 million). There are many Quality of Life projects (barracks, family housing, physical fitness centers, medical facilities) and vehicle maintenance shops in the mix, but many other types as well. (Check out the total budget at www.dtic.mil/comptroller/fy2002budget/#)

The Corps is concerned about their ability to comply with the Vice Chief of Staff's guidance to get all funds (100% !!) obligated by the end of the Fiscal Year. As a result, the Corps has established a date of 1 August to have ALL FY 02 contracts awarded. Each Division and District has developed a plan to achieve that goal. The Corps estimates that 50% of the program will be done by Design-Build (normally 20%), the remainder will have some fast tracking and all will be expedited. The total program for Army and the Corps' part of Air Force will be \$3 Billion (before Congressional adds and O&M projects).

This is a great opportunity for improving the facilities of the soldiers, airmen and their families. It will be closely monitored by the Chief of Engineers, his subordinate commanders and their staffs, to ensure timely execution. In the course of the briefing, the Corps said several things that should be of interest to you:

- some RFPs will be developed by contract;
- there will be plenty of opportunities for Value Engineering;
- small business and small disadvantaged business goals will be included;
- there will be some regional and at least two national AE contracts; and
- they may use some Civil Works Districts to spread the workload.

For those Sustaining Members who want to learn more about Design-Build, we recommend the Design-Build Institute of America (DBIA) as a good resource. Their web site (www.dbia.org) can get you started. Also, the Corps has some very useful Design-Build Publications which are available on the web at www.hnd.usace.army.mil/techinfo/ufc.htm. If you are looking for partners, the SAME Directory of Sustaining Members with its 3,000

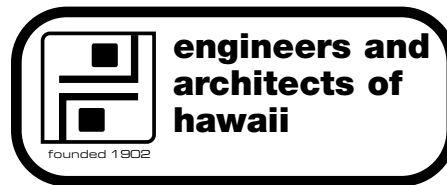
member listings is a good place to search. Go to the SAME web site (www.same.org) and click on the Directory highlight at the bottom of the home page. Click on the items with red asterisks to view the different choices in business class, business specialties, etc., to assist you in your search. Finally, you should contact your regional and local Corps offices for specific details on their program and how they are going to get the work done.

Reminder to Sustaining Member Firms and Public Agencies

Sustaining Member firms and public agencies are reminded to up-to-date their entry in the Web "SAME Directory of Member Firms and Public Agencies." SAME has completely changed contractor and system and this is now easier than ever to do.

Member firms should add the names of all their representatives which is now possible on the Web. Both accuracy and completeness are now more important than ever. Especially because the entries will be downloaded on or about November 1 to constitute the "SAME 2002 Directory" in print form.

To leave list, address your mail to: manager@same.org. Leave the subject line blank. In the body put Leave PostPresidents. To digest list, in the body put Digest PostPresidents ML>



po box 4353, honolulu, hawaii 96813

An association for Hawaii's Engineers and Architects
New WEB Address <http://community.hei.com/eah>

2000-2001 Officers:

President	Kai Andrade	521-4711
1st VP	Victor Russell	949-4155
2nd VP	Maria Tome	587-3809
Treasurer	Ralph Dobson	543-4754
Secretary	Sam Gillie	543-4739
Director	Martin McMorrow	
Director	Tit Mun Chun	524-2270
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.

August 2001 Program

No meetings on August 17 or August 31.

Programs to be Announced.

Meeting Notes for Friday Meeting May 18th, 2001

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

Chip Fletcher said he wanted to talk about one particular aspect of coastal erosion and that has been the recent evolution of our State agencies in regard in how to deal with coastal erosion or to manage coastal erosion. Coastal erosion is a problem that can be managed but over recent decades it has been viewed as a rather intractable problem.

Lanikai beach has been for many years ground zero for coastal erosion. There used to be a beach that touched south to Waimanalo beach and north to Kailua beach. But both the

beach to the north and the south have disappeared. The remaining beach is in a state of erosion. The remaining beach in Lanikai is maybe 1/4 to 1/5 of its original length. House by house, it is continuing to erode away. A homeowner is threatened by the undermining of his house, his property has been lost to erosion of the land, and the public who like to use the beach are not able to cross his property. So there are public rights and private property rights that are threatened by the problem of beach erosion.

The traditional approach to dealing with coastal erosion in Hawaii has been to build some sort of armoring along the shoreline. This is very effective for preserving the land and preserving the land has been very important. Coastal land in Hawaii is among the most expensive in the world. Often properties are passed from generation to generation. So it is very important that this land not be lost. Likewise, we have highways and other public infrastructure threatened by coastal erosion.

Unfortunately, when there is a case of chronic erosion armoring is used and then the beach tends to disappear eventually. Whereas if you don't armor the shoreline and allow erosion to take place the beach will survive, but it will simply migrate landward. One of the things happening is that the land on our coastal zone and under many of our houses is actually composed of sand and the erosion releases this sand and it contributes to the beach. So the beach doesn't actually disappear when there is coastal erosion. And that means there is a difference between beach erosion and coastal land erosion.

Beach loss because of the armoring the shoreline has become a statewide problem. One fourth of the beaches on Oahu have been lost. One third of the beaches on Maui have been lost and where beaches remain in front of armoring walls, the beaches are much more narrow. The impact of this leads to a decrease in coastal access. The living organisms in beach and the near shore area are affected. Coastal dunes are destroyed, and cultural practices are affected and the tourism economy may be impacted. The problem has gotten a lot of attention over the last decade and right in the pocketbook of the economy of the State of Hawaii there is beach loss happening. Thirty five percent of Waikiki beach has been lost as compared to its past condition. One of the places where it has been lost is at Kuhio beach. The beach has recently narrowed in front of the Moana Surfrider. So if you go there at high tide, what used to be a nice wide beach just this last year, you find all the tourist sitting up on a seawall. Likewise at Halekulani, where for many years there has been lost beach and it has been just a seawall against the water. So our world famous Waikiki beach is suffering from this problem and State agencies are aware of this and they are trying to wrestle with the issue.

continued next month

Professional Directory

ESM Esaki Surveying and Mapping, Inc.
Lihue, Kauai, Hawaii
Ph. (808) 246-0625 • Fax (808) 246-0229
esmap@hawaiian.net
ENGINEERS • SURVEYORS
Established 1979

Professional Directory

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