

## BRT: Bus Rapid Transit for Oahu

Prepared by the City Department of Transportation Services

The local engineering community has a long-standing interest in and involvement with public transit in Honolulu. Members of the engineering community have helped to fashion a proposal to improve public transit in a cost effective manner. This concept, Bus Rapid Transit (BRT), makes use of existing roads and facilities by favoring bus movements in certain lanes and at intersections. BRT increases passenger-carrying capacity in the primary transportation corridor (from Kapolei to UH Manoa and Waikiki). The system results in vastly improved service and travel times with relatively small expenditures.

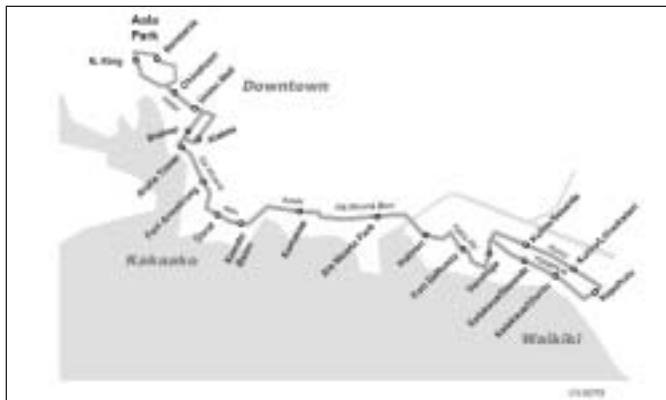
### EIS Process

The BRT project is the subject of a planning and Environmental Impact Statement (EIS) process that has taken nearly five years. The State EIS was approved in November 2002 and the Federal EIS will soon be released. The BRT program is noteworthy for its extensive public participation process. Hundreds of public meetings ensured that the Oahu community was involved in the project's creation. Five rounds of Oahu Trans 2K workshops were held island-wide from September 1998-August 2001 with the goal of developing a transportation vision for Oahu. Working Groups based on six geographic areas (Pearl City/Aiea, Kalihi, Downtown/Kakaako, Mid-Town/University, Waikiki, and Salt Lake) were then formed in 2001, which provided a forum for open dialogue between project sponsors and neighborhood civic, business, and other organizations. As a result of this community input, refinements such as the inclusion of the Kakaako Makai route and allowances for private tour bus companies to

share semi-exclusive lanes with the BRT were made.

### Alignment

In June 2002, the Honolulu City Council designated the BRT alignment from Iwilei to Waikiki as Phase 1, the initial segment to be implemented. The Council approved \$31 million in Capital Improvement Projects (CIP) funding. The Federal government appropriated \$20 million to the project. With funding already in place, Phase 1 of the project is to complete final engineering and go out to bid this year. Phase 1 will serve Iwilei, Chinatown, Downtown, Kakaako, Ala Moana, and Waikiki. The route alignment for this segment will begin at Aala Park and follow Hotel Street to Bishop Street onto Aloha Tower Drive and Ala Moana Boulevard. The segment will serve Kakaako



Map of the Phase 1 alignment



Simulated BRT vehicle on Kalakaua Avenue

Makai, following Forrest Avenue and Ilalo Street before continuing onto Ward Avenue, Auahi Street and back onto Ala Moana Boulevard. In Waikiki the route runs on Kalia and Saratoga Roads terminating in a Kalakaua-Kapahulu-Kuhio loop.

### New Technologies

The City is planning to purchase eight Hybrid-Electric Vehicles (HEV) for use in Phase 1. HEVs combine the internal combustion engine of a conventional vehicle with the battery and electric motor of an electric vehicle, resulting in twice the fuel economy and fewer emissions as compared to conventional diesel buses. According to a 2002 U.S. Department of Energy Transit Bus study, Hybrids had an impressively cleaner record, boasting 98% less carbon monoxide, 44% lower oxides of nitrogen, 28% lower hydrocarbons, at least 99% lower particulate matter, 33% lower carbon dioxide, and a 48% increase in fuel economy. Regenerative braking systems allow Hybrid-Electric Vehicles to reclaim a portion of the energy otherwise lost to braking. The kinetic energy of the vehicle is distributed to the on board generator which charges the battery. This occurs every time the driver applies the brakes.

The City is also exploring touchable Embedded Plate Technology (EPT) with the BRT. Embedded Plate Technology (EPT) utilizes all-electric vehicles that get power from strips embedded under the road. Although the technology poses no threat to people walking on the embedded plates, EPT is not yet service-proven, and until the manufacturer completes additional testing for its certification in the U.S., the City will utilize Hybrid-Electric Vehicles.

### Transit Stops

Twenty transit stops will be utilized along the Phase 1 alignment. BRT transit stops will provide covered, well-lit areas with seating and landscaping. Electronic signage providing continually updated wait times and arrivals of the next vehicle will be featured at major stops. Many transit stops will incorporate thirteen-inch raised platforms that will facilitate the level boarding of passengers onto low-floored vehicles. Disabled passengers and the elderly will be better accommodated using this system and boarding times will be reduced.

### Building Schedule

BRT is slated to break ground later this year. The final design work will be completed in October and the bid/award period will begin. Construction will begin this December. Major

(continued on page 9)



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

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**GENERAL MEETING HIGHLIGHTS**

June 26, 2003

**COMMITTEE REPORTS**

Membership (Kevin)  
 • 167 members, 9 sustaining.  
 Shoreline Certification Administrative Rule Changes (Pat Cummins & Kendall Hee)  
 • OAHU: June 23 (8 am – 12 noon) @ McCoy Pavilion (30 attendees).  
 • HILO: June 25 (9:30 am – 2:30 pm) @ South Hilo District County Baseyard (20 attendees).  
 note: *HALS will cover Randy's airfare to all workshops. Memberships on Layton's e-mail list have been informed that admission is free of charge and on a first come, first served basis. Finally, these workshops are not an "official" HALS function.*

Programs (Kendall Hee)  
 • HECO Safety Specialist Resti Paguirigan will talk on safety issues.

Workshops (Kevin Kea)  
 • "Rules of Construction & Original Surveys vs. Retracements" workshop featuring Pat Cummins: July 26, 2003 @ Naniloa Hotel (Hilo).  
 • Other workshops featuring Ed Carlsen (NGS), Felicia Provencal (AutoCAD), James Kobashigawa (EASLA) to be presented at later dates.

Annual Dinner Meeting @ McCoy Pavilion (Erik Kaneshiro)

• September 12, 2003: Formal letter of invitation mailed out to Melody MacKenzie, editor of "Native Hawaiian Rights Handbook".

• Announcement flyer to be mailed out in July after speaker and schedule finalized.

NSPS Governor (Pat Cummins)  
 • Next Board of Governor's Meeting: October 4 – 5, 2003 at Gaithersburg, Maryland.

WESTFED (Pat Cummins)  
 • Next Meeting: October 25, 2003 at Albuquerque, New Mexico.

**UNFINISHED BUSINESS**

• Promotional materials – cups (Eric Hee), Collared Pullover Shirts (Kevin – catalog, David I. - printing). Sample of design was shown to board; the design with the white backing was selected. Kevin Kea will bring info on costs of various types of shirts at next meeting. David Ishikawa will do the printing after the shirts are selected (approx. \$ 1.50 per shirt).

• Community Service (Kevin) – Kapolei Warrior Association (layout of football field).

General Membership Meeting- July 31, 2003 @ESH – 6:00 p.m.

All meetings will be held at ESH at 6:00 p.m. unless otherwise noted.



[www.eng.hawaii.edu/~hspe](http://www.eng.hawaii.edu/~hspe)

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PO Box 4119 Kahului, HI 96733

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Secretary Wendy Kobashigawa, P.E.	(270-7435)
Treasurer Ty Fukuroku, E.I.T.	(242-4403)
State Dir. Eric Yamashige, P.E., L.S.	(242-8611)

**JULY MEETING**

**Treasurer's Report:** Treasurer Ty Fukuroku reported that our account balance was \$4,630.29.

**Introduction of Guests:** president Brooks Aoki welcomed Kyle Ginoza, the County of Maui's Director of Transportation, to our meeting. Kyle will be the guest speaker at our August 11th meeting.

**Announcements:** A listing of last year's guest speakers compiled by State Director Eric Yamashige was passed around. This was reported to the State officers at their recent meeting.

**Guest Speaker:**

Michael Weitzenhoff from M&M Tanks, Inc. provided a Power Point presentation on the design and construction of water storage tanks.

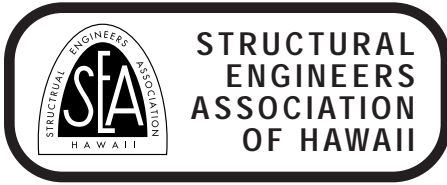
He presented several choices for water storage tanks: concrete, welded steel, bolted steel, and other types (redwood, polyethylene, galvanized, and epoxy coated steel). Of all the choices presented, the bolted steel tanks offered the most benefits in terms of a short construction schedule, low maintenance, long service life, and reasonable cost. This type of tank is factory cut, punched, and coated, and is also chemical and corrosion resistant. It can also be provided with a ceramic or glass-fused coating.



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**Next Deadline for Wiliki is August 15th**



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Past Pres	Tom Tanimura	536-7692	537-9022

#### HIGHLIGHTS OF BOD MEETING

July 10, 2003

##### Committee Reports:

Randy reported that Gary Chock attended a meeting hosted by the AIA with the Honolulu building department making a presentation on the adaptation of the IBC 2003. The building official explained that they will invite representatives of the IBC to make presentations and obtain comments from the public before adopting the IBC 2003. The process will take approximately 18 months. The IBC 2003 is expected to be adopted around the first quarter of 2005.

The County of Hawaii held an informational meeting on 7/9/03 to present the proposed adaptation of the 1997 UBC with seismic revisions.

##### Old Business:

Laura Moore of Diversify Office Support Services agreed to provide administrative assistant services at an hourly rate of \$25 per hour.

If you have not received your electronic copy or wish to add your name to the electronic distribution list, please send your email



#### HAWAII CHAPTER

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Corp. Spon.:	Ron Iwamoto	533-2210	533-2686
HCES:	Ather Dar	486-2092	486-9261

address to "seaohwilliki@yahoo.com".

#### New Business

Randy requested the SEAHOH board members to start the search for nomination of 2004 officers and directors.

#### New Member Applications

None.

#### 2003 Calendar of Events

SEAHOH Annual Convention: August 8 - 9, 2003 at Manele Bay Hotel, Lanai.

Wood Design Seminar: Tuesday, August 19 at the Pagoda Hotel.

AISC Practical Steel Design Seminar: Thursday, October 2 at the Pagoda Hotel.

Next BOD meeting: Thursday, August 6, 2003, 4:00 p.m. at Zippys Vineyard.

### LOCAL SE FIRM RECEIVES RECOGNITION

The June issue of Structural Engineer Magazine highlighted the Top 20 Structural Engineering firms in the nation. A local structural engineering firm, Baldridge and Associates Structural Engineering, Inc., was ranked fourth. The article noted, "Baldridge and Associates Structural Engineering, Inc.'s success proves that quality staff and management can compete easily with those of larger firms to achieve excellence in a working environment."

Baldridge and Associates was recognized again in Pacific Business News' "Hawaii's

Fastest 50." The award is meant to recognize the achievements of Hawaii's small business owners.

The firm's president, Steven M. Baldridge, P.E., is also recognized in the American Institute of Steel Construction's advertising campaign recognizing the nation's leading Architects and Engineers who strive for innovation and creativity. Their ads featuring him will be appearing in upcoming editions of Architectural Record and Engineering News Record magazines.

### SSFM International, Inc.

A growing and dynamic local company is seeking to fill the following positions:

Entry Level Structural Engineer(s)  
Structural Engineer II - III  
Project Engineer - P.E. Required  
Senior Project Engineer - P.E. Required

All positions are open until filled.  
Hawaii design experience preferred.

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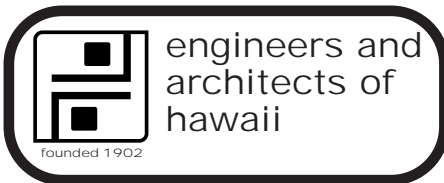
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Secretary: Sam Gillie  
Director: Mary Ellen Nordyke-Grace  
(2 year term)  
Ron Boyle (2 year term)

**Membership dues are due. Mail or pay the Treasurer at a Friday Meeting. Dues \$35.**

#### EAH August Program

Program Chair: Maria Tome

Aug 1 Speaker: Diane King, National Audubon Society, "National Audubon Society Plans for Waimea Falls Park"

Aug 8 Tentative: "Aquarium at Ko Olina"

Aug 15 NO MEETING - In honor of Statehood Day

Aug 22 Tentative Speaker: John O'Grodny, "Effects of Roof Coating on Interior Building Temperature"

Aug 29 NO MEETING - Labor Day

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

Members-\$7.50 Guests-\$8.50

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

#### Meeting notes for Friday, May 3, 2003

**SPEAKER: Ardalan Nikou, P.E., Civil/Structural Engineer**

**SUBJECT: "Solving Rockfall Problems in Hawaii"**

Ardalan Nikou was tasked by the State Department of Transportation to identify rock fall hazard areas on State roads and prepare a database of the hazards. Three years ago a rock of about 40 tons fell on the Kamehameha highway by Waimea bay. Engineers from Earthtech surveyed the fall and work to develop a solution to the hazard. See EAH Bulletin 28-00-Sept-8 for Gary Yamamoto's presentation on their work with relocating the roadway away from the hill. This project started Earthtech's involvement with rockfalls in Hawaii.

They needed to use a rating system so they could grade the various rock hazards. They did a preliminary rating and a detailed rating and a preliminary design and cost estimates for any recommended remediations. Then DOT could prioritize the projects.

Rock fall science is not new, but it is new in Hawaii. But mountains do naturally deteriorate, but it has been ignored in Hawaii. Slopes can be divided into three class. Class A is where a rock falls, but the rock usually cannot make its way onto the driving surface. So low danger to traffic. Class B is a rock fall, where there is moderate change that a rock can fall or roll

onto the driving surface. This could be a problem for traffic. Class A is where a rock that falls will likely end up on the driving surface and will be a danger to traffic. Makapuu is an example of a Class A location.

There is about 12 criteria for hazard locations that need to be evaluate so the location can be rated or score. The higher the location of the rock, then the higher the potential energy of the rock. Does the location have a buffer zone at the edge of the road where the rock could be contained without going on the road surface? The Pali highway just past Castle Junction is very poor for retaining rocks. 15 to 20 feet at the shoulder of the road is really needed. Driving site distance is important, so drivers may be able to avoid hitting a rock. They have to look at the rock-face and the Geology. They have to look for differential erosion, or where there is soft soil under harder or rocks. The softer material is washed away by rain and harder soil loses support and falls. They have to look at the size of the rock at the site.

Ardalan Nikou showed numerous pictures of hazardous areas around the State. They have to look at the annual rainfall. They have to look for any history of hazard areas. This is difficult, because reports are not well documented or identify to specific highway locations. Nikou went with maintenance crews, who pointed out areas that impact their work the most. Once all the 12 categories are completed the scores can be computed. The results are calculated based on exponential relationships;  $Y=3x$ , so a score of 50 has a rating of 10, but score of 100 has a rating of 80. Mediation proceeds can mean cutting the hill, putting in a fence, moving the roadway, putting in a vertical barrier, such as a retaining wall, cable netting. Mediation measures can be very expensive.

#### Meeting Notes for March 7th 2003

**SPEAKER: Sandi Quildon, SPQ Architects; "The 'C' Factor - Connecting, Collaborating and Creating"**

Sandi Quildon saw two bumper stickers as she drove up the Pali. One read "Out of my mind back in five minutes". The other was "Forget about World Peace visualize using your turn signal!" This one particularly relates directly to her talk, the business of communicating effectively.

If someone said they had the prefect roofing material we would want facts. Though facts are important, what often influences our decision are our emotions. When she first started SPQ Architects, she made two mistakes. First mistake was not really listening to the clients. Second, she assumed what the client wanted to know. She would talk about all her qualifications, because she thought the client wanted to know facts. But what the client really needed most was assurance and reassurance in their decisions. The issue was whom could they trust. Who would help them overcome the project's challenges? Who would know about their desires, their requirements and what was important to them. The real issue became one of connection. She calls it the 'C' Factor. We've heard the phrase. "People don't care how much you know until they know how much you care."

Would it be important to you to know, why people choose you to work with? What factors were important to them to select you? She once gave a six-question survey to her clients. One question asked to list the top three reasons they choose her company. On one survey, experience and knowledge weren't even in the top three. Don't her client want someone

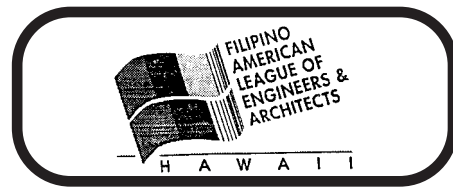
experienced and knowledgeable? Of course they did, but what influenced them the most of all was, understanding their requirements. It was Number 1!

Another question was what would you tell others about SPQ Architects. One response was, "Architect did not go craze when changes were made after the drawings were completed." Clients don't know how to accomplish what they want, but they do know what they want!

One of the most challenging project she had required a fair amount of collaboration. It was renovation of a computer facility for a New York investment broker company. Challenging because the time frame for construction was 48 hours over a weekend. Downtime is not an option for investment brokers. She though the challenge was the 48 hour time period. But the ultimate challenge was in all the planning, communicating, the collaborating that lead up to that weekend. There were a lot of trades working elbow to elbow. The success of the project was the communication and collaboration, but more important was the trust from the client and trusting all the people involved.

There are a lot of benefits to staying connected. One of the things it does is it establishes credibility in the eyes of your client. You may not always have the answers, but if you know who to go to for answers, it establishes credibility. It also establishes you as someone that can work as team. We cannot do it all. It is essential to be connected with the resources that are required for current and future projects. If you are connected, you can share information or get information.

Engineers and Architects have a lot in common in terms of communicating what we know. But engineers face an even greater challenge, because engineers are communicating concepts and ideas, intangibles to many people. Architects are often communicating through visual images, sketches, drawings; something tangible. Success in work lays not just in the expertise and experience that is given to projects, but it depends on our ability to personally connect with people, depends on ability to collaborate and develop those relationships and it depends on how effectively we can communicate what we know to the people who value the knowledge and expertise most.



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**Luce Pavilion**

A concrete exterior and basement were selected for its ease of waterproofing as the museum artifacts stored within the building's galleries and basement required complete climate control in all spaces. One of concrete's outstanding side benefits here is the security it provides with this design to protect the many exhibits on display.

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BUILDING AWARD**

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**AUGUST JOINT DINNER MEETING WITH SOCIETY OF AMERICAN MILITARY ENGINEERS**

**Program:** 1) The topic and speaker for a presentation hosted by the Construction Committee in conjunction with SAME will be announced. Watch for the pending announcement!

2) Election of FY 2003 Officers. See the article below for information on the nominees.

Date: Thursday, August 21, 2003

Location: To be announced

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

6:30 p.m. - Dinner

7:30 p.m. - Program

9:00 p.m. - Adjourn

Menu: To be announced

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 Lori Fong, ASCE Treasurer, C/O Parsons Brinckerhoff, Pacific Tower, Suite 3000, 1001 Bishop Street, Honolulu, HI 96813, postmarked by Monday, August 18 2003. Reservations to Lori Fong by Monday, August 18, 2003 by phone at 531-7094, fax at 528-2368, or e-mail at [lfong@ascehawaii.org](mailto:lfong@ascehawaii.org).

**EXECUTIVE COMMITTEE MEETING**

July 10, 2003

**2003 CALENDAR OF EVENTS (subject to change)**

September 2003 - Dinner meeting hosted by the Ocean and Energy Committee

**ELECTION OF FY 2004 ASCE HAWAII SECTION OFFICERS**

The 2003 Nominations Committee is pleased to announce the following slate of officers for FY 2004. Westley Chun, who was elected to the position of President-Elect in August 2002, will lead the Hawaii Section as President. Nominees for the remaining Executive Committee positions are as follows:

President-Elect: Keith Niiya

Vice President: Walter Billingsley

Secretary: Lori Fong

Treasurer: Philip Ooi

Younger Member Forum President:

Jamie Hikiji

The Nominations Committee nominated current officers Keith Niiya, Walter Billingsley, and Lori Fong to continue in succeeding positions. A brief biographical sketch for Philip Ooi and Jamie Hikiji is provided below.

Philip Ooi received his Bachelor of Science degree in Civil Engineering from the University of Leeds in the U.K. in 1983. He received his Master of Science degree in Civil Engineering from the Massachusetts Institute of Technology in 1984 and his Ph.D. in Civil Engineering from the Virginia Polytechnic Institute and State University in 1991. Philip previously worked for GEI Consultants in Winchester, MA, as a Senior Geotechnical Engineer. Currently, he is an Assistant Professor of Civil Engineering at the University of Hawaii.

Philip has actively participated in the Hawaii Section as a dinner meeting speaker and PE Refresher Course lecturer. He currently serves the Hawaii Section as Co-Chair of the Outreach Committee.

Jamie Hikiji attended the University of Hawaii at Manoa as a Regents Scholar. She received her Bachelor of Science degree in Civil Engineering in 1998 and was the top graduate in her class. Currently, she works for M&E Pacific as a Civil Engineer.

Jamie has been actively involved with ASCE since 1997. As a student, she served the UH ASCE Student Chapter as Corresponding Secretary. Upon graduation, she served as chair of the Hawaii Section's Hospitality Committee. She has been actively involved with the Hawaii Section Younger Member Forum as Administrator from 1999 to 2002, WRYMC Program Committee Chair from 2002 to 2003 and currently as Vice President. She has also served as President of the Engineering Alumni Association at the University of Hawaii at Manoa.

The election of the FY 2004 ASCE Hawaii Section Officers will take place at the August Dinner Meeting.

**Call for nominations for 2003 ASCE Hawaii Section Outstanding Civil Engineering Achievement Award**

The ASCE Hawaii Section annually recognizes an exemplary civil engineering project as the Outstanding Civil Engineering Achievement (OCEA). This prestigious award recognizes the project that best illustrates superior civil engineering skills and represents a significant contribution to civil engineering progress and society.

The 2003 Hawaii Section OCEA Award winner will be announced and the award presented to the project owner at the Hawaii Section Annual Banquet in October. OCEA Awards of Merit may also be awarded. The Hawaii Section OCEA Award winner will be nominated for the 2004 ASCE National OCEA Award to be presented next spring.

Nominations for the 2003 Hawaii Section OCEA Award may be submitted by the individual firms or agencies involved in the project. The project must be located either in the State of Hawaii or in a location that is not under the jurisdiction of another ASCE Section. The level of project completion required to be eligible for the OCEA Award depends on the type of project.

Additional information on OCEA Award eligibility criteria, entry form and other entry requirements may be downloaded from the ASCE Hawaii Section website at [www.asce-hawaii.org](http://www.asce-hawaii.org). Deadline for nominations is Monday, September 9. Please submit six (6) copies of each nomination to Awards Committee Chair Tony Lau at Hawaii Pacific Engineers, 1132 Bishop Street, Suite 1003, Honolulu, Hawaii 96813-2830. If you have any questions, please e-mail Tony at [tlau@hawaiiipacificengineers.com](mailto:tlau@hawaiiipacificengineers.com) or call him at 524-3771.

**Call for ASCE National Award Nominations:**

The ASCE Hawaii Section is seeking candidates to nominate for the following three ASCE National Awards:

- Alfred Noble Prize – Given annually to an ASCE member of any grade, 35 years or younger, for a technical paper of exceptional merit accepted by the Committee on Publications or a committee of like standing for publication in any of their technical publications. Papers must be prepared by a sole author.
- Elmer A. Sperry Award – Given annually to an individual or group in recognition of "a distinguished engineering contribution which, through application, proved in actual service, has advanced the art of transportation whether by land, sea or air."
- Washington Award – Given annually "as an honor conferred upon an engineer by fellow

## ACI CONCRETE FIELD TECHNICIAN PROGRAM—GRADE I CERTIFICATION

*Sponsored by the Cement and Concrete Products Industry of Hawaii*

The ACI Certification Program for Concrete Field Testing Technician—Grade I. During Session I, the seminar portion, will include instruction and review of ASTM testing. Session II, the examination, each participant will be given a written and performance examination.

**Session I Seminar: Saturday, September 6, 2003** from 8:00am to 2:00pm at Hawaiian Cement (Halawa Valley Plant) Halawa Valley Road, Aiea, Hawaii.

**Session II Examination (Performance & Written): Saturday, September 27, 2003** from 7:30am to 1:30pm (specific times to be announced). Location will be Hawaiian Cement at (Halawa Valley Plant).

Registration is \$200 per person and includes seminar, books, and exam. Cost for Session II re-examinations are—written re-examination \$100, and performance re-examination \$125. Class size is limited to 15 people. Registration deadline is Sept. 5, 2003.

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



engineers on account of accomplishments which preeminently promote the happiness, comfort, and well-being of humanity." The award is not restricted by a society or locality requirement and is administered by the Western Society of Engineers.

The National deadline for nominations for these three awards is October 1. If you are interested in nominating an individual for any of these awards, please contact the Hawaii Section Awards Committee Chair Tony Lau at 522-7426 by August 5.

### 2003 ASCE ANNUAL CONFERENCE AND EXPOSITION

The 2003 ASCE Annual Conference and Exposition will be held in Nashville, TN at the Gaylord Opryland Resort and Convention Center from November 12 to 15. The preliminary program can be found on the ASCE National website at [www.asce.org/conferences/annual03/](http://www.asce.org/conferences/annual03/). If you plan on attending the conference, please consider registering through the Hawaii Section because there is a \$50 to \$60 discount per person when registering as a group. To register through the Hawaii Section before September 17, please contact Tony Lau at 522-7426 or at [tlau@hawaiiapacificengineers.com](mailto:tlau@hawaiiapacificengineers.com).



### 2002-2003 OFFICERS

		Phone
President	Jeff Kalani <a href="mailto:jeff_kalani@urscorp.com">jeff_kalani@urscorp.com</a>	593-1116
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Secretary	Lori Nishida <a href="mailto:lnishida@atahawaii.com">lnishida@atahawaii.com</a>	533-3646
Treasurer	Paulette Chang <a href="mailto:pchang@hawaiiapacificengineers.com">pchang@hawaiiapacificengineers.com</a>	524-3771
Student Chapter President	Meris Ota <a href="mailto:merisota@hotmail.com">merisota@hotmail.com</a>	956-5808

### Next YMF General Meeting

The next two YMF general meetings are scheduled for Tuesday, August 5, 6:30 p.m. at Monterey Bay Cannery; and Tuesday, September 2, 6:00 p.m. at Ryan's (Ward Center). If you are interested in attending, please call Jeff Kalani at 593-1116.

### YMF August Social: Music, Food, Friends and Fun

ASCE YMF will be heading down to the Honolulu Zoo to see the Wildest "Show in Town" featuring Raiatea Helm, this year's Best Female Vocalist and Most Promising Newcomer in the Hoku Awards on Wednesday, August 13, 2003. There will also be a Lanikai ukulele drawing that evening. Sign ups are from 6 to 6:15 pm and winners will be announced at showtime. Gates open at 4:35pm and show will start at 6pm and end at 7pm. Although admission is free, there is a suggested \$1 donation.

We will be picnicking on the zoo's lawn stage at 4:45. Bring your dinner and friends, to a relaxing pau-hana time with local music after a chaotic day at work. Email Ann Mukai at [annm@rmtowill.com](mailto:annm@rmtowill.com) or call 842-1133 if there are any questions. Hope to see you there!

### ASCE Job Classified

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

### ASCE JOB LISTINGS

The following employers have openings they would like to fill:

Austin Tsutsumi & Associates, Inc. (Civil, Traffic/Transportation, Environmental and Surveying - Honolulu and Wailuku)

Fewell Geotechnical Engineering (Geotechnical Engineer - Honolulu)

Fukunaga & Associates (General Civil and Environmental/Sanitary Engineers - Honolulu)

Hida Okamoto & Associates, Inc. (Civil Engineer - Honolulu)

Warren S. Unemori Engineering (Project and Civil Engineers - Wailuku)

For more information on these job listings, please visit the ASCE Hawaii Section website at [www.ascehawaii.org](http://www.ascehawaii.org).

### MEMBERSHIP DRIVE

ASCE counts on our members to help us grow every year by actively participating in the Member-Get-A-Member Drive. The drive is now year-round and offers great new prizes, such as cash rewards, gift certificates, digital cameras, personal digital assistants, LCD TVs and more. For most prizes, all you have to do to be eligible to win is refer a colleague. This is a great time to help out your colleagues while also helping ASCE find new members. Take a minute to think about the people in your professional life who could benefit from membership. Visit [www.ASCEDrive.org](http://www.ASCEDrive.org) to refer them and you could be a winner in the next drawing!

### CONVERTING TO ELECTRONIC VERSION OF WILIKI

If you would like to help the ASCE Hawaii Section reduce operating costs by receiving your monthly issue of the Wiliki via e-mail, please contact Tony Lau at 522-7426 or e-mail him at [tlau@hawaiiapacificengineers.com](mailto:tlau@hawaiiapacificengineers.com).

### KNOW YOUR ASCE HISTORY

by C.S. Papacostas

In my September 2000 article in this series, I discussed the major construction materials that were in common use in Hawaii during the 19th century. Among them was "adobe" or sun-

dried brick that found extensive use throughout the country. Sereno Edwards Bishop, born on the Big Island in 1827 to missionary parents, tells us how these bricks were manufactured, at least in the 'Ewa district on the island of O'ahu, where his family subsequently moved.

In his "Reminiscences of Old Hawaii," published in 1916 by the Hawaiian Gazette Co., Ltd., he says:

"Adobes furnished an excellent material for cheap building. The rich soil was very clayey. A species of bunch grass called makuikui, thickly covered the lower uplands. This very tough fibre was gathered in great quantities and trodden by the natives into the wet clay. This fibrous mortar after standing overnight, was retrodden and moulded into huge bricks to be dried in the sun. So tough was the resulting concretion, that it was nearly impossible to drive a nail into a well made adobe."


Sereno had a multifaceted career that included advanced studies in America. In Lorrin A. Thurston's brief biography of Sereno,

"[O]wing to the then lack of advanced schools in Hawaii, the earlier mission children were all 'sent home' around Cape Horn, to be 'educated'."

According to Thurston's account, Sereno "[I]n 1865 ... became principal of the Lahainaluna industrial school, then the only one of high school grade available to Hawaiians ..."

He also worked for the Government Survey Department and also bought, subdivided and sold lots on Liliha Street. In fact, "Kuakini street was opened and named by Mr. Bishop at this time; that being the name that he was known among the Hawaiians in his youth, it being derived from the Governor of Hawaii who lived at Kailua when Mr. Bishop was a boy there."


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](mailto: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>.



PROVEN RESULTS

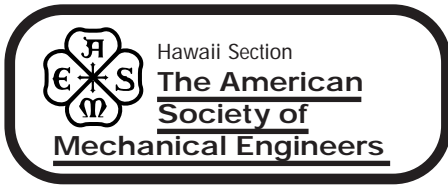
- Prestressed solid planks, tees & beams
- Hollowcore planks
- Prestressed piles
- Structural precast components
- Architectural precast

Project: Pier 5 Extension, Barbers Point Harbor  
Products: 20" Octagonal P/S Piles, 11" P/S Planks  
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Vice-chair	LCDR John Markowicz	484-9164
Treasurer	Rodney Krienke	373-2916
Secretary	Sam Gillie	543-4739
Past-chair	James Grogan	254-2947
Dir 1 yr	Ed Chang	543-4227
Dir 2 yr	Ron Flegal	455-0254

**HAWAII SECTION COMBINED COMMITTEES & POWER TECHNICAL CHAPTER MEETING**

Date: TBA  
 Time: 5:30 p.m.  
 Place: Hawaiian Electric Company, Inc. Ward Avenue Cafeteria

All members are invited to all Executive Committee meetings. Please contact Ray Liu or Sam Gillie for directions and more information.

**REGION IX VICE PRESIDENT MEETS WITH EXECUTIVE COMMITTEE**

Lynden Davis, PE, new Region IX VP, met with Hawaii Section officers Ray Liu, Sam Gillie, Jim Grogan, and Chester Kaitoku on July 8 at the Pagoda Restaurant. He was in Honolulu for the 2003 ASME/JSME Joint Summer Fluids Engineering Conference at the Sheraton Waikiki. They discussed section and regional activities and programs. The Regional Vice Presidents attend the major ASME conferences in their region.

**FUEL CELL TEST FACILITY TOUR**

The Hawaii Section contributed to the 2003 ASME/JSME Joint Summer Fluids Engineering Conference by arranging for conference attendees to tour the new state-of-the-art Hawaii Fuel Cell Testing Facility. Section Director Ed Chang drove 14 conference attendees from the Sheraton Waikiki Hotel to the HECO Ward Avenue fuel cell test facility and back on July 10. A 14-passenger van was loaned by HECO for this tour. ASME thanks Larry Ornellas, HECO Maintenance Superintendent, for arranging for the van.

Dr. Eric Miller and Jack Huizingh of the Hawaii Natural Energy Institute (HNEI) conducted the tour. The test facility tests hydrogen fuel cells for clients such as the Office of Naval Research. Dr. Miller described a similar situation for Hawaii where the island nation, Iceland, is placing a great emphasis on fuel cell energy. The facility produces its own hydrogen for the tests. The facility currently tests one cell at a time. There are plans for testing multiple cells. The tour was arranged through Rick Rocheleau, HNEI Director.

**NEW HAWAII SECTION VICE-CHAIRMAN, LCDR JOHN MARKOWICZ, JR. USN, PE**

LCDR Markowicz is the Engineering Duty Officer, Pearl Harbor Naval Shipyard and Intermediate Maintenance Facility. Born in Groton, CT, he entered the Navy in 1992 after receiving a commission from the Tufts University-MIT Naval Reserve Officer Training Corps program. His undergraduate degree was awarded in Mechanical Engineering. Subsequently, he went on to Monterey, CA for his graduate education at the Naval Postgraduate School where he successfully

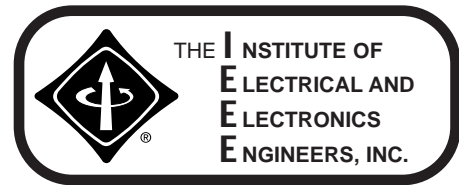
fulfilled the requirements for a Masters and Engineering Degree in Mechanical Engineering and graduated with distinction.

During his short Navy career, LCDR Markowicz has been assigned overseas in Naples, Italy, and Sarajevo, Bosnia-Herzegovina, before reporting to his current Hawaii assignment in December 2001. He recently attended the International Gas Turbine Institute's 2003 Turbo Expo to present a paper that he co-authored and titled "An Improved Preliminary Design Method for Ejectors."

LCDR Markowicz is a registered Professional Engineer in the State of California. He completed a year of service as President of the local Battleship Missouri Toastmasters Club. Please visit the Hawaii Section website for a more detailed bio of LCDR John Markowicz Jr. USN, PE.

**FUTURE ACTIVITIES**

The following are activities that are planned: September or October 2003: ASME Distinguished Lecturer - William L. Dean, P.E., on "The Engineer as an Independent Business Person: How to Start Your Own Engineering Company."



**IEEE Hawaii Section**

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

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	( <a href="mailto:mark_rogstad@ieee.org">mark_rogstad@ieee.org</a> )	
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Oceanic Society:	Mark Rognstad	956-8712
	( <a href="mailto:mark_rogstad@ieee.org">mark_rogstad@ieee.org</a> )	

**AUGUST MEETING**

The August meeting will be a joint meeting for IEEE Hawaii Section and the Hawaii Chapter of IEEE Oceanic Engineering Society. We will feature a presentation by Dr. John Wiltshire, Acting Director of the Hawaii Undersea Research Laboratory at the University of Hawaii. He will describe the discovery made by HURL with their research submarines of the first casualty of the attack on Pearl Harbor, a Japanese mini-submarine. This submarine was sunk by a US destroyer patrolling the entrance to Pearl Harbor early in the morning of Dec. 7, 1941. Some of the information he will present is available for preview

on the HURL website at:

<http://www.soest.hawaii.edu/HURL/midget.html>

The meeting will be held on August 19th, at 6 pm at a location to be announced - watch your email inbox for details.



P.O. Box 31218; Honolulu, HI 96820.  
[www.same.org/honolulu](http://www.same.org/honolulu)

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 CONSTRUCTION CAMP: LT Greg Jennings, CEC, USN  
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	Randolph H. Murayama	
	Wayne H. Nakamura	

**EAAUH WEBSITE**

Don't forget to visit our website at [www.eaaauh.org](http://www.eaaauh.org) for information on upcoming events and EAAUH news. View photos of the Las Vegas trip, last year's golf tournament, and other events. Post some messages on our bulletin board. Employers: Do you have positions to fill? Post job listings on our website! It's easy to do, and it's FREE! There's a lot to look at, so check it out!



### 2003-2004 OFFICERS

Office	Name	Phone	Fax
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Secretary	Matthew Alonzo	737-1875	734-5516
Treasurer	Fred Smoot	841-7617	833-6125
Past Pres	Richelle Suzuki	541-2530	541-2700

### JUNE 2003 MEETING HIGHLIGHTS

At the June 17, 2003 Section meeting, Mr. Rick Stack of A&B Properties, Inc. discussed A&B's current and future developments. A&B Properties, Inc. activities include land stewardship, planning and entitlement, development, acquisitions and investments as well as portfolio management and sales. A&B owns 90,580 acres in Hawaii and 210 acres on the mainland.

Active Maui projects include the Maui Business Park, Triangle Square and Kahului Airport Hotel in Kahului and The Vintage, The Summit and Fairway Shops in Kaanapali. On Oahu, A&B is currently developing the Kai Lani residential project in Ko Olina, a commercial project in the Royal Kunia area, and the Lanikea condominium in Waikiki. On the Big Island, they have the HoloHolo Ku residential project near Waimea town. On Kauai, A&B is modifying their plans for Kukui Ula development and expanding commercial uses via the Port Allen Marina Center. In Valencia, California, A&B initiated the construction of the Westridge Executive Plaza in May 2003. Several long-term Maui projects are in the planning and entitlement stage, including subsequent phases of the Maui Business Park, Haliimaile Subdivision, Maalaea Village master planned community and other projects near Spreckelsville, Paia and Hamakuapoko.

Mr. Stack indicated that A&B prefers its investments to have a Hawaii focus in various types of office, retail, industrial and residential land uses, but does diversify with mainland properties. A&B investments tend to focus on near-term or immediate earnings impact and they like to have an active role in the management of their properties. Current A&B Oahu investments involve the 1100 Alakea office building and the Hokua residential condominium mauka of Ala Moana Beach Park.

### JULY 2003 MEETING HIGHLIGHTS

The ITE Hawaii Section Annual Meeting was held on July 3, 2003 at the Maple Garden

Restaurant. Ray Davis, International Director for District 6 was the speaker and he provided a summary of the ongoing activities at the International and District 6 levels of ITE. In addition, Mr. Davis installed the new 2003-2004 Hawaii Section officers, which have been listed above.

For Year 2003, ITE international emphasis areas are the role of traffic operation in addressing congestion, traffic signal timing, emergency response and incident management, dissemination of safety research findings and best practices, transportation role's in successful communities, workforce development, reauthorization of federal transportation legislation (SAFETEA), membership services and growth and implementation of ITE's strategic plan. There were 912 PTOEs as of February 2003 and this certification is gaining acceptance as preferred qualifications in some States.

Mr. Davis reviewed the District 6 officers and committee members and summarized the support services to the local Sections and Student Chapters. Mr. Davis noted that several District 6 members are actively chairing ITE's technical councils and he encouraged the Hawaii Section members to become more active in ITE.

### UH STUDENT WINS ITE CONTEST

UH Department of Civil and Environmental Engineering Ph.D. candidate Lin Zhang participated in the annual student paper contest of the Institute of Transportation Engineers and won the District 6 competition. ITE District 6 consists of the 13 western states, including Hawaii.

Mr. Zhang's paper is titled, "Freeway Travel Time Estimation: Case Study in Honolulu" and it is based on the premise that reliable travel time estimation is necessary for congestion management systems and advanced traveler information systems. Simultaneous travel time, traffic volume and speed data from a congested 5-mile segment on west-bound H-1 Freeway in Honolulu, Hawaii, were used to examine the travel time forecasting ability of regression, continuous and segmented time series models.

Mr. Zhang was awarded a cash prize of \$500, air travel expenses (up to \$500), hotel accommodations and registration fees to present his paper at this year's Annual ITE Meeting in Seattle, Washington, during August 24-27, 2003.

### BRT, from page 1

civil work includes constructing transit station platforms; improving landscaping and lighting around stops; pavement rehabilitation; concreting of sections of pavement in BRT heavily traveled areas, especially at transit stops; road and sidewalk widening; and undergrounding of utilities. Sections of Ala Moana Boulevard and Kalia Road will undergo a separate design, bidding, and construction schedule to be completed by December 2005. Coordination with the U.S. Army at Fort DeRussy regarding the widening of Kalia Road by a lane in each direction is the reason for the separate schedule.

### Continuing Transit Studies

Governor Lingle has called together City and State officials to review the long-term prospects for improved transportation in Hawaii. The results of these efforts will be widely agreed upon, thus avoiding last minute reversals that have

plagued previous efforts. While these City-State meetings continue, it is agreed and understood that BRT Phase 1 and other projects (such as a reversal of Piikoi and Pensacola) should move forward. One of the advantages of BRT is that it is effective in a stand-alone fashion and it works with any other transit mode (such as light rail) that might be implemented in the future. BRT is the first step in a multi-modal approach to alleviating traffic congestion.



Existing and proposed transit stop at Sinclair Circle, UH-Manoa.

## Professional Directory

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