

wiki o hawaii



ENGINEER
OF HAWAII

VOL. 46 NO. 12

SERVING 2000 ENGINEERS & LAND SURVEYORS

FEBRUARY, 2011

2011 HCES Lifetime Achievement Award

Stanley A. Tamanaha, P.E.

The selection committee is honored and pleased to announce Mr. Stanley A Tamanaha as the 2011 HCES Lifetime Achievement Award recipient.

Mr. Tamanaha's impressive career, spanning 37 years, changed the landscape of O'ahu and contributed to the success of NAVFAC, Pacific Air Force, Pacific Command, the City and County of Honolulu, and to the overall engineering profession in the State of Hawaii.

To elaborate, Mr. Tamanaha began his engineering career as an aide for the Board of Water Supply. After graduating from the University of Hawaii, College of Engineering's Department of Civil Engineering in 1966, he joined the U.S. Air Force, serving four years in the Air Force Civil Engineers and earning a Bronze Star for distinguished service with the 823rd Civil Engineering Squadron at Bien Hoa Air Base, Vietnam.

Upon retiring from active duty, Mr. Tamanaha returned to Hawaii, and from 1970 to 1980, he worked at the City and County of Honolulu, first in the Department of Public Works and registering as a Professional Engineer, then in the Department of Transportation as the District Engineer. During this period, he was also the program manager for federal aid projects and a member of the Subdivision Review Committee.

In 1980, Mr. Tamanaha began a 23-year career with Naval Facilities Engineering Command (NAVFAC) as the Supervisory Engineer and Deputy Resident Officer In Charge of Construction (ROICC), Marine Corps Air Station Kaneohe. During his 13-year service at Kaneohe, he earned numerous (over 36) honors for exceptional service culminating in his selection as NAVFAC's Pacific Area Engineer of the Year in 1992.



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2011 Young Engineer of the Year

Dawn Barsana Szewczyk, P.E., M. ASCE

The Hawaii Council of Engineering Societies is proud to announce Ms. Dawn Barsana Szewczyk, P.E., M. ASCE as the recipient of the 2010 Young Engineer/Early Career Award. Ms. Szewczyk was nominated by the Hawaii Section of the American Society of Civil Engineers (ASCE) for her outstanding contributions to her profession and the community.

Ms. Szewczyk is a graduate of Punahou School and Loyola Marymount University in Los Angeles, where she received her Bachelor of Science in Civil Engineering. At LMU, she served as a teaching assistant, a peer counselor/mentor, student facility manager, and participated in the ASCE student chapter, Filipino club, women's lacrosse team and held various leadership positions within the LMU's Hawaii Club.

Ms. Szewczyk has played an active role in various professional societies and community organizations, including ASCE, the Hawaii Water Environment Association (HWEA) and the Hawaii Section of the American Water Works Association (HI-AWWA). After terms as the section's Treasurer, Secretary and Vice-President, Ms. Szewczyk currently serves as the ASCE Hawaii Section's President-Elect, and is also the Youth Education Chair for HI-AWWA. Ms. Szewczyk was HI-AWWA's Annual Conference Technical Program Chair in 2002, 2003 and 2004 and went on to become Trustee At-Large/Annual Conference Co-Chair in 2005 and 2006. In 2006, she received the Outstanding Section Member Award for her service to HI-AWWA. In 2005, she also served as the Registration Chair for HWEA's annual conference and in 2008 was selected to be Annual Conference Co-Chair. For her efforts as Annual Conference Co-Chair, she received a special recognition



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2011 Engineer of the Year

Sheryl E. Nojima, PhD, PE

Sheryl E. Nojima, PhD, PE has been selected by the Hawaii Society of Professional Engineers (HSPE) as the recipient of the 2011 Engineer of the Year award. She was nominated by the Hawaii Section of the American Society of Civil Engineers for her significant contributions to the engineering community in Hawaii.

Dr. Nojima received her Bachelor of Science, Master of Business Administration, and Doctor of Philosophy degrees from the University of Hawaii at Manoa. She also attended the University of California at Berkeley where she earned a Master of Science degree in Civil Engineering. She is a licensed professional engineer in two disciplines - civil engineering in Hawaii and Oregon, and environmental engineering in Oregon.

Dr. Nojima started her engineering career at M&E Pacific where she was involved in projects throughout Hawaii, Guam, and Okinawa. Over the years, she has worked in both the private and public sector, including the City and County of Honolulu, Department of Public Works, and the University of Hawaii, College of Engineering, where she served as Assistant Dean from 1995-2000. She is currently President of Gray, Hong, Nojima & Associates, Inc., the state's only Woman-Owned Small Business consulting civil engineering firm. In addition to serving as the firm's managing partner, Dr. Nojima is actively involved in the technical practice as principal-in-charge of civil/environmental studies, permitting, and civil site work projects. Some of her noteworthy projects include the Waianae Wastewater Treatment Plant Modifications, Wai Kaloii at Makakilo, Ewa Nonpotable Water System Environmental Assessment, Kawa Stream Improvements, and the Airport Sewer Rehabilitation/ Reconstruction.



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2011 HCES Student Engineer of the Year Award

Travis Hee Wai

The selection committee is honored and humbled to announce Mr. Travis Hee Wai as the 2011 HCES Student Engineer of the Year Award. Travis has demonstrated a phenomenal academic achievement by maintaining an exceptionally high GPA, an astronomical 3.90 overall and a near perfect 3.98 major, and has been on the College of Engineering Dean's list every semester since his matriculation to the Electrical Engineering Program as a University of Hawaii Regent's Scholarship Recipient in 2007. He is a member of IEEE (Institute of Electrical and Electronics Engineers) Student Branch. He is scheduled to graduate in May 2011, is a proud graduate of Kalani High School, and planning to attend graduate school.

To briefly summarize some of Travis' scholastic involvements and achievements, in 2009, he has worked in the Biomedical Sensors Laboratory on development and testing of biomedical sensors to detect various medical diagnostics targets including heart attack, disease, cancer diagnostics, and virus and bacterial sensing. He led a group of four students in designing, fabricating, programming, and testing an efficient micromouse. In 2010, he worked with Dr. James Yee on a Navy communications network project involving a router as an MMPP/M/1 queue, which involved writing scripts to simulate the queue and calculate performance measures. Finally, he is working on the Infrasound Application Senior Project in collaboration with the University of Hawaii's Infrasound Laboratory in Kona, HI on analyzing applications of infrasound (low frequency waves) to time-reversed acoustics by designing a MATLAB GUI for these analyses. In the midst of these projects, he also works as a research assistant at the University of Hawaii, Department



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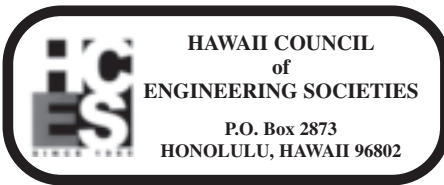
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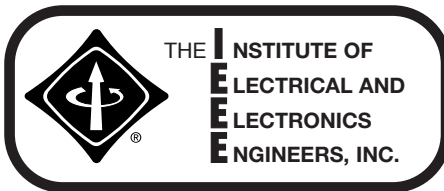


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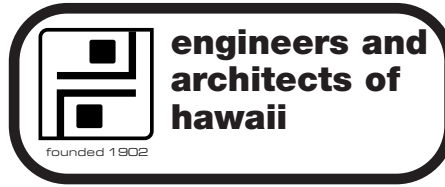
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**EAH February Program 2011
Program Chair: Martin McMorro**

Feb 4 Speaker: Paul Brewbaker, Principal, TZ Economics.

Title: "Yesterday, Today and Tomorrow" Popular Paul Brewbaker, noted island economic adviser, will speak on Hawaii's economic outlook for 2011.

Feb 11 Speaker: Glenn Mason, President, Mason Architects Inc. and Don Hibbard Ph.D. Title: "Hart Wood - Architect" Mr. Mason and Dr. Hibbard will speak on the works and ideas of one of Hawaii's most significant architects of the first half of the twentieth century. They are co-authors of the book, "Hart Wood: Architectural Regionalism in Hawaii, published in 2010". Mr. Mason is an architect specializing in historic preservation and Dr. Hibbard, previously head of the State Historic Preservation Division, has written several books about Hawaii's architectural history.

Feb 18 No Meeting Presidents Day Holiday

Feb 25 Speaker: Don Hibbard, Heritage Specialist, Mason Architects Inc. Title: "Hawaii's Federal Works of the 1930s" Mr. Hibbard administered the State of Hawaii historical preservation program from 1981 to 2002 and now is with the team of Mason Architects Inc. His talk will highlight the many projects we pass by almost every day in Hawaii. Projects that were the result of the Federal "back to work programs" of the Great Depression.

Meeting Notes for December 10th 2010

Martin McMorro offered to provide some humor, but it was pointed out to him that he was funny enough without having to tell a joke. But this did stop Mac from tell about an old cowboy, who spread a bit of gun powder on all his meals as method for longevity, which must have helped him to live to a ripe old age, but when he died he left a crater where the crematorium had been.

Speaker: David Mittelstadt, President, eGauge Hawaii.

Topic: "Real time meters; the biggest energy saver for Hawaii's homes" Mr. Mittelstadt briefed the EAH membership on the advantages of monitoring of energy production and energy usage in homes and business. He started by demonstrated live on-line feed from a business's solar system production. He believes that by monitoring energy production and usage people will be able to reduce and conserve their energy usage. Hawaii Cleaner Energy Initiative, which calls for 70% renewable energy by 2070, includes 30% from energy conservation measures. His system also include monitoring of Solar Thermal system. He has found many examples of systems that were installed but were not working and no one realized because the system were not being monitored. He also

believes this energy production date will be useful to utilities in managing their production of electric as more and more photovoltaic systems are install on the electric grid.

Meeting Notes for December 17th, 2010

Speaker: Soo Stover, Green Energy Solutions. Topic: "Green Energy Solutions" **Solar Soo** as she is known, briefed EAH on her efforts to develop renewable projects in Hawaii and her efforts and problems to get the projects permitted at the Honolulu Building department. When she first approached the Building department for a solar hot water heating project at the Waikiki Shore condo on Kalia Street in Waikiki, she was told the building code for the special district required all roof equipment to be covered or concealed. Not very good for a solar system needless to say. This problem was solved but installing the equipment on the roof of the 15 story building required the use of a helicopter. Because of the tight location a larger helicopter could not be used so the lifts had to be sized to the capacity of the smaller helicopter. This even meant reducing the fuel capacity in order to increase the lifting capacity. The project was financed by the Bank of Hawaii as solar tax credit least program. Savings are estimated to be \$2,500 to \$3,000 per month on the gas bill. Michael Chong's firm The Chong Group was the mechanical engineer on the project. The balance of the program Ms. Stover discussed ways to work effectively with the Building Department. She suggested making appointments with code reviewers On-line. Installation of Photovoltaic have become somewhat standard so in order in reduce review time the electrical is no longer reviewed, but the electrical installation is inspected by the building inspectors. The recording of this program will be posted at the EAH website.

Meeting Notes for January 7th, 2010

Speaker: Jeffrey M. Kissel, President & CEO, The Gas Company. Topic: "Hydrogen for Hawaii's Fuel Cell Cars"

Mr. Kissel presented the Gas Company's concept to use their existing synthetic natural gas (SNG) pipeline to distribute hydrogen to fueling stations on Oahu. Currently the SNG mix contains about 5% hydrogen. The gas company will increase this to about 12% or higher. The blended hydrogen in the SNG can be separated through pressure swing absorption technology at each fuel station. Basically at each station the separation equipment take the SNG, separates some of the hydrogen from the gas stream and return the remainder back to the gas pipeline. The Gas Company is team with GM to use the Chevy Equinox SUV which has been converted to a fuel cell. About 15 or 20 will be delivered over the next year. Initially the DOD will get the first fuel stations and vehicles. Currently they could support up to 15,000 vehicles or about 7,000 equivalent gasoline gallons per day. The recording of this program will be posted at the EAH WEB site.



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www.ite-hawaii.org

HCES Pearlridge VEX Invitational Tournament

On February 20, 2011, Engineering Week, up to four Hawaii VEX robotics teams will qualify for the VEX World Championships to be at Walt Disney World, Orlando, Florida, in April 2011, in the HCES Pearlridge VEX Invitational Tournament. Eighteen public and private middle and high school teams have designed and programmed robots from a kit of parts to play a game challenge called Roundup. VEX Round Up is played on a 12'x12' square field. Two alliances – one "red" and one "blue" – composed of two teams each, compete in matches consisting of a twenty-second autonomous period followed by two minutes of driver-controlled play. The object of the game is to attain a higher score than your opponent alliance by scoring tubes upon goalposts, owning goalposts and by low hanging or high hanging from the ladder. A bonus is awarded to the alliance that has the most total points at the end of the Autonomous Period.

At the conclusion of the seeding rounds (each team plays 6 matches), top seeded teams by win/loss records will select their alliance partners for the double elimination tournament that will determine the tournament champions. The award winning McKinley High Robotics team will be directing the tournament. In addition, the Radford High Robotics team will be offering the general public the opportunity to make and take a "brushbot," made from a toothbrush head and a miniature vibrating motor and invite participants to compete in a BrushBot tournament.

VEX schedule: Pearlridge Center Uptown

- 9:30 a.m.: opening ceremonies
- 9:45 a.m.-12:30 p.m.: VEX seeding rounds
- 12:30 p.m.: alliance selections
- 1:30-3:00 p.m.: double elimination tournament, awards ceremony

Brushbot schedule:

- 10:00 a.m.-12:30 p.m.: brushbot workshop
- 12:45-1:25 p.m.: brushbot tournament

Why robotics? It is not about building robots but developing life skills such as teamwork, problem solving, time management and effective communication. The evidence is compelling that participation in one or more robotics programs fosters career interest in technical fields, in particular, engineering. VEX robotics is one of six scholastic robotics programs offered in Hawaii (<http://www.hawaiiroc.org/>). For further information regarding VEX robotics or brushbots, email art@hipg.hawaii.edu (Art Kimura, Hawaii Space Grant Consortium, University of Hawaii at Manoa).



SWE - Hawaiian Islands Section
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swe.hisection@gmail.com

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2011 Engineers Week Banquet

Saturday, February 26, 2011
 DeRussy Hall at the Hale Koa Hotel

- 5:30 p.m. Cocktails
- 6:30 p.m. Dinner
- 7:15 p.m. Program:

- Presentation of Engineers Week Exhibit Awards.
- Presentation of Engineer of the Year, Young Engineer of the Year, HCES Lifetime Achievement, and Student Engineer of the Year Awards.
- Guest Speaker – Wayne Y. Yoshioka, Director of the City and County of Honolulu Department of Transportation Services will provide a presentation on Honolulu Rail Transit covering project time line, budget/funding, preliminary engineering, transit-oriented development, and its relationship to other transportation capital improvement projects.
- Installation of 2011 HCES officers.

Contact Person and Organization _____

Address _____

Telephone _____ E-mail _____

Rates are \$40.00 per person for registration(s) postmarked on or before February 11, 2011, \$50.00 per person for registration(s) postmarked after February 11, 2011, and \$30.00 for students. Tables will seat 10 people.

HCES has invited special guests to attend the banquet. These guests may include the Governor, Mayors, State Legislators, Governmental Department Directors, and/or their representatives.

If you would like to sponsor an invited special guest and their spouse/companion to sit at your table, please fill in "HCES Special Guest" for two seats in the list below and HCES will assign a special guest and their spouse/companion to your table. Alternatively, if you would like to arrange for your own special guest(s), please include their name(s) in the list below.

Please type or print the name and company/organization affiliation for each attendee, as they would like it to appear on their name tag.

Name	Company or Organization
1. _____	_____
2. _____	_____
3. _____	_____
4. _____	_____
5. _____	_____
6. _____	_____
7. _____	_____
8. _____	_____
9. _____	_____
10. _____	_____

Number of people attending: _____ x \$40.00 (registration on or before Feb 11) = _____

Number of people attending: _____ x \$50.00 (registration after Feb 11) = _____

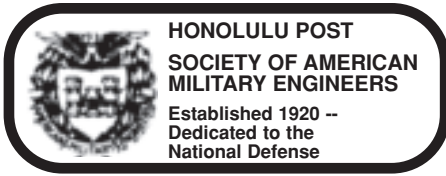
Number of students attending: _____ x \$30.00 = _____

Sponsored Guests (2 x \$40.00 = \$80.00) = _____

TOTAL AMOUNT REMITTED

Please make checks payable to "HCES" and mail with completed registration form to:
 2011 Engineers Week Banquet
 c/o Derick Kam
 Thermal Engineering Corporation
 512 Kalihi Street
 Honolulu, Hawaii 96819

Banquet attire will be aloha wear; military uniforms are not required. Parking will be validated. For further information regarding cancellations and refunds, or if you have any questions, please contact Registration Committee Chair Derick Kam at kam@thermaleng.com, telephone 356-2461.



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January Lunch Meeting

On January 11, 2011, SAME members heard from **Rudy Matalucci, PhD, BSCP, PE, USAF Lt. Col (retired)**, president of Rudolph Matalucci Consultants, Inc. His presentation focused on developing protective strategies for critical military assets potentially subjected to malevolent threats.



Rudy Matalucci addresses the audience at the January 11 SAME Honolulu Post lunch program.

2011 O'ahu Regional MATH-COUNTS Competition

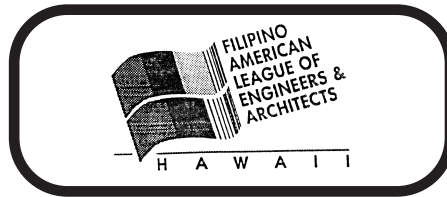
We are looking for volunteers to help at the 2011 O'ahu Regional MATHCOUNTS Competition, which will take place on Saturday, February 19 from 8:30am – 11:00am at the Case Middle School at Punahou Schools. If anyone is interested in participating, please contact Iris Terashima at iris@iterashima.com.

2011 Engineers Week Kick-Off Luncheon

Together with the Hawaii Council of Engineering Societies, SAME Honolulu is helping to coordinate the 2011 Engineers Week Kick-off Luncheon on February 22, 2011 at the Hale Koa Hotel. The guest speaker will be Mr. Jeff Chang, who will be discussing the Hawaii Airports Modernization Program. Mr. Chang is the Engineering Program Manager for the Engineering Branch of the Airports Division, Department of Transportation, State of Hawaii. The registration form can be downloaded through our website at www.samehonolulu.org. Cost is \$35.00 (\$18.75 for students).

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HIGHLIGHTS BoD MONTHLY MEETING – 01-07-11

Committee Reports: FE REFRESHER COURSE - The Review Course is on schedule. Volunteer instructors to teach the various topics had been selected. Also, members had been designated to assist with refreshments and other administrative duties during the sessions. Details are on the Website at www.falea.org, or contact Jeffrey @ 358-7111.

INFORMATION & PUBLICATION – HCES Rep Suzie Agraan reported that the FALEA Selection Committee had made the final selection for the Young Engineer of the Year Award. FALEA will also reserve two tables for the Engineers' Week Banquet on February 26.

ANNUAL GOLF TOURNAMENT – The Golf Committee will be busy in the coming weeks getting ready for our 4th Annual Scholarship Golf Tournament to be held at the Kapolei Golf Course on April 15.

Next Meeting: 5:30 PM Friday, February 4, at APB's.

**The Society of American Military Engineers,
 Honolulu Post
 & the
 Hawaii Council of Engineering Societies**

Cordially invites you to join us for the

2011 ENGINEER'S WEEK KICK-OFF LUNCHEON

Presentation and Speaker:
Mr. Jeff Chang, Engineering Program Manager
Airports Division, Department of Transportation, State of Hawaii

Hale Koa Hotel, Banyan Tree Showroom
Tuesday, February 22, 2011 at 11:30 AM
 Luncheon Cost: \$35.00*
 *\$18.75 for Students

PLEASE RSVP BY: Wednesday, 15 FEBRUARY 2011

SEND THIS FORM AND PAYMENT TO:
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 155 Kapalulu Place, Unit 104
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During Engineers Week, the Maui Chapter of the Hawaii Society of Professional Engineers will put on various events in an effort to increase the understanding of and appreciation for the field of engineering by promoting the vital role engineers have in protecting the health, safety, and welfare of the community. Events include:

- **Proclamation signing with the Mayor:** The HSPE Maui Chapter board meets with the Mayor to sign a Proclamation officially declaring Engineers Week in Maui County.
- **Engineers Week Promotion:** The HSPE Maui Chapter will promote Engineers Week on a local morning radio show.
- **Project of the Year:** The Project of the Year competition recognizes projects completed during the 2010 calendar year. The selected project is featured in the Maui News and project entries are exhibited to the public during Engineers Week.
- **HSPE Maui Chapter Scholarship:** The HSPE Maui Chapter offers one \$1,000 scholarship and one \$700 scholarship to graduating high school seniors entering accredited Engineering programs.
- **MathCounts Competition:** The annual MathCounts competition, being held at Maui Waena Intermediate School on February 12th, is open to all public and private middle schools.
- **Introduce a Girl to Engineering:** The HSPE Maui Chapter is partnered with the Maui Economic Development Board's Women in Technology Project for the annual Introduce a Girl to Engineering held on Thursday, February 24th. The program is designed to expose 7th and 8th grade girls to the field of engineering and encourage them to become engineers.
- **Career Shadowing:** The Career Shadowing program, being held on Friday, February 25th, will introduce high school juniors to the field of engineering by visiting an engineering firm's office and a project site.
- **Engineers' Week Luncheon:** To culminate Engineers Week, a luncheon will be held at

Café O'Lei at the Dunes at Maui Lani on Sunday, February 27th, recognizing the MathCounts winners, scholarship recipients, and the Project of the Year winner.

- **Math Matters Competition:** The annual Math Matters Competition will be held on Saturday, March 5th, at Maui Waena Intermediate School. Public and private elementary schools are invited to participate in individual and team exams and a non-competitive, hands-on activity.

On a separate note, the 2011 Mathcounts competition is upon us. The Big Island, Maui and Oahu is having their respective competitions in

February of 2011. The Oahu competition will be held on Saturday, February 19, 2011 at the Case Middle School at Punahou School.

The respective winners from each island will then meet for the State Mathcounts championship on Oahu at Iolani School on Saturday, March 5, 2011. The State winners will then go on and represent Hawaii on the mainland for the National Mathcounts competition, in the late Spring, 2011.

If you are interested in volunteering, or if you should have any questions, please contact your local HSPE chapters.

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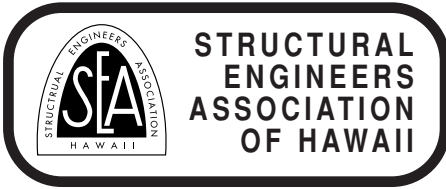


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HIGHLIGHTS OF BOD MEETING

January 5, 2011

Committee Reports:

General Membership Meetings/Technical Seminars/Events:

- ATC Disaster Seminar has been rescheduled to Feb. 28, 2011 at the Pagoda Hotel. This event will be sponsored by NAVFAC Hawaii.
- Joint MIH/CCPI Special Inspection of Structural Masonry Construction is scheduled for Feb. 4, 2011 at the Pearl Country Club.

The following seminars are anticipated to be presented in 2011:

- Pre-Engineered Metal Buildings (1/2 day seminar)
- Pre-Engineered Wood Trusses (lunch-time seminar)
- Structural Steel Corrosion Coatings (lunch-time seminar)

Building Code Committee:

- Hawaii County Code Update: The County Department of Public Works has upcoming public meetings in February on the proposed changes to the County's Building Code (Bill 270). A SEAOH representative will be in attendance.

Hawaii Council of Engineering Societies (HCES):

- Engineers Week - February 20 to 26, 2011. Go to the HCES website for more information regarding Engineers' Week events. Kickoff Luncheon will be held on February 22 and the Robotics Event and Awards Banquet will be on February 26. Exhibits will be at Pearl Ridge Shopping Center.

Other Business:

- Hawaii County Pre-engineered Truss Submittal Requirements: SEAOH Board will issue a position letter in response to the County Department of Public Works, Building Division's new policy of requiring that the structural engineer or architect of record accept full responsibility for the design, construction observation and installation of pre-engineered trusses.
- Possible venues for this year's annual conven-

tion include the Turtle Bay Resort and the Makaha Resort.

New Member Applications: New member application from Jennifer Abayon (MKE Associates) for grade of Allied Member was received and is open for comments from the membership. Her application will be voted on at the March 2011 board meeting. Please notify any SEAOH officer prior to the March 2011 board meeting if you wish to comment on this prospective member.

Missing Members: Please contact Membership Chairperson, Jiabao Chen (Ph: 791-3945 or email *jchen@kaihawaii.com*), or any of the SEAOH officers if you have a new mailing and/or email address.

The next SEAOH Board of Directors and Officers meeting will be held on Wednesday, February 2, 2011. Location and time to be determined. Contact SEAOH President Brian Ide (536-2108, *brianide@allisonide.com*) for more information.



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- Vice President - Paul Brussow
- Director - Amarjit Singh
- Director - Maelyn Uyehara
- Past President - Stephen Jacobson
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Directors:	Lloyd Lee	
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Secretary	Brian Enomoto <i>email: benomoto@ascehawaii.org</i>	388-5559
Treasurer	Glenn Miyasato	
Past President	Jeff Kalani <i>email: jeff@yogikwong.com</i>	596-2928

ENGINEERS WEEK – FEBRUARY 20 – 26, 2011

There will be no dinner meeting in February due to Engineers Week activities. Please attend the Engineers Week Kickoff Luncheon on Tuesday February 22nd at 11:30 AM at the Hale Koa Hotel, Banyan Tree Showroom and the Engineers Week Banquet on Saturday February 26th at 5:30 PM at DeRussy Hall at the Hale Koa Hotel. See this month's Wiliki for complete registration information, or see our website at www.ascehawaii.org; deadline for Kickoff Luncheon is February 15th, and deadline for Banquet is February 11th).

EXECUTIVE COMMITTEE MEETING

Last held: January 14, 2011
Next Meeting: February 18, 2011

HAWAII SECTION MEMBERS WIN AWARDS

Congratulations to ASCE Hawaii Section Members Sheryl Nojima and Dawn Szewczyk who have been chosen to receive the 2011 Engineer of the Year and Young Engineer of the Year Awards, respectively. They will be honored at the Engineers Week Banquet on Saturday February 26th (see registration info above).

CONTINUING EDUCATION

ASCE National holds more than 275 seminars and computer workshops each year on a wide variety of technical, management, and regulatory topics. These seminars are held in more than 45 cities across the U.S. In addition, ASCE offers customized on-site training and many distance learning programs, including live interactive web/teleconference seminars, online courses and courses on CD, videotape, and audiotape. Please visit www.asce.org/conted/ for complete details.

ASCE HAWAII SECTION STUDENT SCHOLARSHIPS

Please help us increase our scholarship endowment so that we can recognize those deserving students. We continue to accept tax-deductible donations with the goal of increasing the annual scholarships. Make your check payable to 'ASCE Hawaii Section' and mail to ASCE Scholarship Committee, P.O. Box 917, Honolulu, HI 96808. If you have any questions, please contact Jeff Kalani at 754-5501, or Jeff@yogikwong.com.

ASCE JOB LISTINGS

For information on how to advertise job openings in your company on the ASCE Hawaii

continued on page 9



2010-2011 YMF Officers

		Phone
President:	Eric Arakawa <i>earakawa@ascehawaiymf.org</i>	478-6540
Vice-President:	Javis Carino <i>jarino@ascehawaiymf.org</i>	256-8554
Secretary:	Jason Sugibayashi <i>jsugibayashi@ascehawaiymf.org</i>	721-3117
Treasurer:	Lara Karamatsu <i>lkaramatsu@ascehawaiymf.org</i>	694-3213
Past President:	Troy Ching <i>tching@ascehawaiymf.org</i>	697-6233

Moanalua Elementary School Junior Engineering Night

By Kit leong, Outreach Chair

The ASCE Younger Member Forum participated and hosted an activity at the Moanalua Elementary School Junior Engineering Night on December 8, 2010. The event was organized by DeAnna Hayashi of Austin, Tsutsumi & Associates, Inc.(ATA), and sponsored by the Moanalua Elementary School PTO, ATA, and Koga Engineering & Construction Inc. About 200 students and 200 parents participated in the event.

YMF hosted a paper rocket activity at the event. Students were asked to construct a small paper rocket using a sheet of paper, a round pencil, scissors, and tape. After the rockets were constructed, students were asked to launch them by blowing air through the drinking straw.



Karen Chongue, YMF member, assisted students with the paper rocket construction.



Thanks to (from left to right): Jason Sugibayashi, Eric Arakawa, Lisa Takushi, Karen Chongue, Kit leong, and Cliff Yim for their time and help to make this event a very successful one.



Students and Parents listening to the event introduction.



Students launching their paper rockets.

KNOW YOUR ASCE HISTORY

by C.S. Papacostas

“RED, WHITE AND BLUE ELEPHANT”

Those among you who have been following this series of articles will recall that three months ago (in November 2010) I discussed the dedication on February 23, 1973 of Holmes Hall, the “new” engineering building on the Manoa campus of the University of Hawai‘i. It was an installment of my short history of the College since its inception around the turn of the 20th century. Retired Dean W. J. Holmes, who was also none other than the famous novelist Alec Hudson, was in attendance at the dedication of the building that bears his name.

In December, I took a slight detour to answer a question posed by civil engineering alumnus Garret Fong of the U.S. Navy who wanted to know about the sculpture that is placed on the building’s lawn. The interest generated by my first note on Alexander Liberman’s “Gate of Hope” necessitated a follow-up explanation in January of this year.

My readers’ as well as my interest and curiosity about the sculptural piece notwithstanding, I welcomed the respite that this diversion afforded me because, at that exact time, I had discovered among my papers a copy of a letter to the editor in the Sept. 3, 1973, issue of the Honolulu Advertiser that carried the innocuous title “Engineering Building,” the contents of which were, to put it mildly, puzzling.

The letter was authored by Richard M. Fand, Professor of Mechanical Engineering, and began thus:

“Your reporter, Jane Evinger, has done the people of Hawaii a service by exposing the gross waste associated with the design, construction and utilization of the new multimillion dollar engineering building at the University of Hawaii, Holmes Hall. Only by such exposure can the forces of public opinion be mobilized to prevent the repetition of such waste in the future.”

The letter continued by laying the blame for this alleged poor state of affairs squarely on the shoulders of John W. Shupe, the college dean who succeeded Holmes in 1965. It also made an oblique reference to a “critical report issued in 1971 by a national accrediting committee.”

September 1973, by the way, was only about a month after I arrived in Hawai‘i. I was assigned, on a temporary basis, the office of structural engineering professor Harold S. Hamada who was on sabbatical at the time, Room 381 to be specific, which is now occupied by another structural engineering professor, Ian N. Robertson. Not being aware of the newness of Holmes Hall, I recall how I admired the excellent condition in which the building was kept! But I also wondered why I was not given an office of my own from the start.

The answer to my quandary was implied in the letter to the editor by Prof. Fand that I have discovered so many years since it was written in 1973. For my convenience, it seems, it specified the publication date of the subject newspaper article as being August 25 of that year.

I think you can easily imagine my great surprise when I rolled the microfilm reader display to the headline “Holmes Hall’s price tag continues to rise.” A photograph of the building taken from Dole Street at an angle that put the “Gate of Hope” in the foreground accompanied the article by the “Advertiser University Writer” who started:

“Holmes Hall, the University of Hawai‘i’s new engineering building, has been dubbed ‘the red,

white and blue elephant’ by one campus wit - and he wasn’t referring only to its color scheme. Occupied for a year, the building is the most expensive on the Manoa campus. It cost \$8,938,980, including equipment... Holmes is not only the most expensive, but also the largest building on campus in terms of gross square feet. It has 206,761 of them. But because of the building’s design, which features wide lanais, only 43 per cent of the space is assignable. That is the lowest percentage on campus.”

With respect to the assignable space, it continues with “Holmes has only six classrooms, most of them small, so that engineering students must attend classes in other buildings. It has only enough offices for about half of the engineering faculty.”

Aha! Here lies the reason why I, as a newly arrived faculty member, was not assigned an office of my own!

An explanation of this situation attributed to Dean Shupe was the fact that “when the new engineering facilities were being planned in 1965, Holmes Hall was designed to house the engineering laboratories and the administrative offices of the college and its departments. Phase II, adjacent to it, was to have been almost as large as Holmes, and was to house classrooms, an auditorium, and faculty offices.”

Shupe indicated that Phase II was postponed indefinitely because of budgetary restrictions, but, contrary to the opinion of some faculty members, he expressed the hope that, although “dead for at least the next 10 years,” the completion of Phase II was a real possibility.

The critical accreditation report mentioned in Prof. Fand’s letter to the editor was indeed issued by the Engineers’ Council for Professional Development (ECPD), the predecessor of today’s Accreditation Board for Engineering and Technology (ABET). The following excerpt, which was released by University President Harlan Cleveland, appeared in the Dec. 9, 1973 edition of the same newspaper:

“In each department it was found that the faculty is composed of high quality individuals, but it appears that these individuals seem unable to work together toward common goals under present conditions.”

My guess is that the severity of the budget cuts must have contributed to the strained interpersonal relationships observed by the visiting team of evaluators, as they always do!

Nevertheless, lest reality be misconstrued, despite the critical nature of the evaluators’ report, none of the College’s departments has ever lost its accredited status.

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 msp@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>.

ASCE, continued from page 8

Section website, please visit <http://www.asce-hawaii.org/jobs.htm>.

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

If you would like to receive e-mail notices of upcoming meetings or activities, please sign-up for the ASCE Hawaii Section’s webmail list at <http://www.ascehawaii.org/emailform.htm>. You may also update your email address on that same webpage. Please consider helping the Hawaii Section reduce operating costs by receiving your monthly issue of Wiliki via email.



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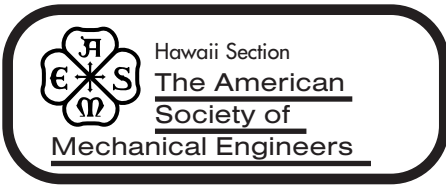
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Alternate:	John Ahern	

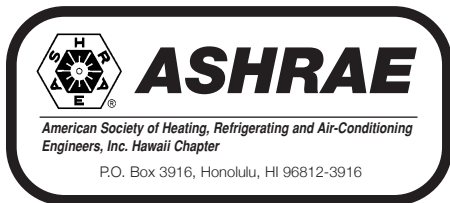
NEXT ASME-HAWAII SECTION GENERAL MEETING

Date: March 15, 2011
 Time: 5:30 pm to 7:00 pm
 Place: Hawaiian Electric Ward Avenue Cafeteria
 Agenda: To Be Announced on ASME-HI's website.

Members and guests are invited. There will be free pizza and soft drinks as usual. Please contact Derek Sato or Kory Ikeda for directions and for more information, such as parking.

BALLOTS & SURVEYS FOR 2011

The voting for 2011-2012 Officers began with email notifications to use *SurveyMonkey.com* for members with an email address and with paper ballots sent out via the US Post Office for members not providing an email address. The annual



2010-2011 BOARD

Executive Committee (Officers)

President:	Michael Chang
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Secretary:	Barry Jim On, P.E.
Treasurer:	Paul Fukunaga, P.E.

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 Melek Yalcintas, PhD, P.E.
 Scott La Beau
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 Research Promotions: Archibald Makatini
 Product Show: Donna Kishi
 Technical Seminar: Melek Yalcintas, PhD, P.E.
 Student Activities: Alayna Shima
 Young Engineers of ASHRAE (YEA): Brandon Maeda
 Webmaster: Mark Yamamoto, P.E.

membership survey was attached. The nominees are Derek Sato, Chairman; Derick Kam, Vice-Chairman; Kevin Dang, Treasurer; Kory Ikeda, Secretary; and for Directors, James Grogan (one year term), Ronald Flegal (two year term), and Raymond Liu (two year term). This is the first election to increase the number of directors from two to four. The deadline for ballots and surveys is February 28, 2011.

MATHCOUNTS 2011

Ed Chang/ASME-HI reports that recruiting for proctors and scorers for the MATHCOUNTS Oahu Chapter competition ended shortly after the call for volunteers went out. More than a hundred volunteers responded to help proctor and score the Oahu Chapter Competition on February 19, 2011, which will be held at Punahou School after many years at Kamehameha Schools. Most of the volunteers are from HECO, Army Corps of Engineers, SAME, and ASCE. Volunteers for the State Competition on March 5, 2011 at Iolani School are still needed.



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ENGINEER OF THE YEAR, continued from page 1

As a product of Hawaii's public school system, Dr. Nojima is proud to serve as a member of the Department of Education's Office of School Facilities & Support Services Advisory Council, chairing the Committee on Capital Improvements. And although she left her alma mater, the University of Hawaii, in 2000, Dr. Nojima continues close ties with the College of Engineering. She has served as a member of the Department of Civil and Environmental Engineering's Industrial Advisory Committee since 2002, as well as the Dean's Advisory Council since 2007. In addition, she has made it a priority to get back into the classroom at least once a year during the spring semester, assisting Prof. Roger Babcock as a mentor and lecturer in the Civil and Environmental Engineering senior design course.

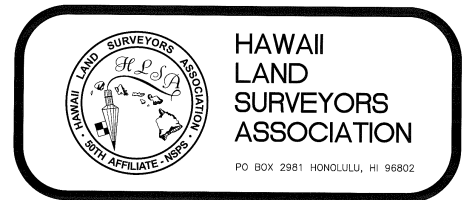
Within the professional community, Dr. Nojima is currently President of the American Council of Engineering Companies of Hawaii (ACECH). She has been a member of the organization's Board of Directors since 2004, chairing the Department of Education (DOE) Liaison Committee. Among her significant contributions was lobbying for legislation to amend standard contract terms removing the design professional's duty to defend the state. She subsequently worked with the DOE in becoming the one of the first state

agencies to remove this onerous condition.

Dr. Nojima was also actively involved with the Honolulu Chapter of HSPE, serving as president from 2001 to 2003. Through HPSE she volunteered as a supporter of the MATHCOUNTS® Competition for middle school students – assisting with scoring, coordinating registration, and presenting topics on engineering education for coach's sessions. She worked with other officers of HSPE to establish the HSPE Educational Foundation which provides tax-exempt financial support in the education of Hawaii's future engineers through college scholarships, the Fundamentals of Engineering exam reimbursement program, and the MATHCOUNTS® Competition. In 2004 she was elected as Vice President of the founding Board of Directors and then as President from 2006 to 2008.

Dr. Nojima and her husband Mike are the proud parents of daughter Alison, a junior in civil engineering at Santa Clara University, and son Aaron, a junior at Iolani School. She has volunteered much of her spare time in the community – chairing various committees for the Iolani Ohana, serving as team mom for a number of Iolani basketball and volleyball teams, working weekends at the Kalakaua Basketball Clinic concession, and participating in the Manoa Valley Church prison ministry group.

The Hawaii Society of Professional Engineers is proud to present the 2011 Engineer of the Year Award to Sheryl E. Nojima, PhD, PE. Please join us to acknowledge Ms. Nojima at the 2011 HCES dinner awards banquet on February 26, 2011 at the Hale Koa Hotel.



<http://www.HLSA-hawaii.org>

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YOUNG ENGINEER OF THE YEAR, continued from page 1

award and was inducted into the organization's "Select Society of Sanitary Sludge Shovelers".

Ms. Szewczyk is currently in the midst of completing her 9-month term as a fellow of the prestigious Pacific Century Fellows Program, which was established by Mufi Hannemann in 1996 and is based on the White House Fellows Program. The program seeks to develop and provide collaboration amongst Hawaii's young leaders who are envisioned to shape Hawaii's future. Ms. Szewczyk is also volunteers for various educational programs and activities, including serving as mentor for Punahou School's innovative Pu'eo Program (founded to identify students in the public school system with high academic potential, but low economic opportunity, and motivate and prepare them to enter and ultimately complete college) and Student Global Leadership Initiative (aimed at developing a community of international youth leaders focused on developing collaborative solutions to shared global challenges).

Ms. Szewczyk has over 12 years of professional Civil and Environmental Engineering experience in California and Hawaii. From 1998 to 2000, she worked as a junior engineer for PSOMAS (a land development firm in Los Angeles) where she provided assistance in the planning and design development of site civil utilities and infrastructure for various master-planned communities ranging from 500 to 12,000 acres in size. She then went on to work as assistant engineer for the City of Palos Verdes Estates. There she served directly under the Director of Planning and Public Works and prepared staff reports and recommendations for presentation to the City Planning Commission and City Council.

In 2000, she made her way home to the islands and went on to work for CH2MHILL, a union that would last 10 years. She served as an engineer, design manager and assistant project manager on a variety of projects for multiple clients in Washington, Oahu and Maui, and was privileged to work on a wide variety of potable water and wastewater research and design projects. Because of her versatility, competence, organization, and hard work, Ms. Szewczyk was able to enjoy many successes and accomplishments during the early portion of her career. Her time at CH2MHILL culminated in her role as design manager for the Hawaii Department of Education's Large Capacity Cesspool Closure/Conversion Project; an \$87M design-

build project, which achieved closure or conversion of 320 large-capacity cesspools distributed throughout 49 schools on Oahu, Maui, Kauai, Molokai and Hawaii. Outside of work, she took the lead in coordinating numerous office and outreach events which included initiating engineering-related activities with public elementary schools, speaking to high school and college students about the engineering profession and sharing her personal experiences as an engineer. She also became a founding member for a local branch of the company's internal "Women's Network" which aims to help empower and encourage women in the workplace in seeking professional development opportunities to advance their careers.

In August of 2010, Ms. Szewczyk moved onto work with the Naval Facilities Engineering Command, Pacific (NAVFAC PAC), as an environmental engineer with the Guam Program Management Office, Public Works/Utilities. She participates in the planning and development of projects associated with the Guam Buildup, estimated to be one of the largest military construction projects in United States history. Projected budgets for utility-related infrastructure projects to support the Marine relocation from Okinawa to Guam will exceed \$1B.

In her personal life, she is a loving wife to husband, Michael, and proud mother to 2 sons, Kainalu (4) and La'akea (2). In whatever free time remains, she serves as Room Mother for Kainalu's Preschool class at St. Clement's School and volunteers for numerous school and church events. She enjoys paddling (has crossed the Kaiwi channel once) and golf.

Ms. Szewczyk's diverse engineering skills and experience, work ethic, leadership qualities, dedication to the engineering profession and passionate desire to help others make her a well-deserving recipient of this year's award. We are indeed fortunate to have Ms. Szewczyk representing us in the local community, as well as the engineering industry. Congratulations to Ms. Dawn Barsana Szewczyk, P.E., 2011 HCES Young Engineer of the Year.

STUDENT ENGINEER OF THE YEAR, continued from page 1

of Mathematics investigating computable solutions to Lovasc Local Lemma via algorithm and code development.

In fact, Dr. Yee has been so impressed with Travis' work that he writes, "The model [that Travis used] was a queue with Markov modulated Poission arrival process and an exponential distributed server. This was M.S. level work." Dr. Yee further writes, "Travis has talked to me about doing a 496 project next semester on random graphs. These models have been used to represent computer networks, biological networks, and social networks. The level of this work would be M.S. and may move in the direction of Ph.D. level work."

However, Travis is not only about academics and research. He has tutored special education students in math and coached cross country and track & field at Kalani High School. Since 2007, he also stays competitive by participating in the UH Intramural Outdoor Soccer and the MISO (Men's Island Soccer Organization) Leagues.

HCES LIFETIME AWARD, continued from page 1

In 1985, Lieutenant Colonel Tamanaha was selected to be the first Commander of the 945th Civil Engineer Squadron. Following his highly successful command tour, he was assigned to U.S. Pacific Command, where he performed strategic facilities planning and was instrumental in the planning and design of the new Pacific Command headquarters facility. He retired in 1993.

In 1995, Mr. Tamanaha was selected to be the Supervisory Engineer and Deputy ROICC, Middle Pacific, at the time the largest NAVFAC field office in the world, with a staff of nearly 100 engineers, construction managers, and contract specialist. Under his superb leadership and technical acumen, ROICC MidPac oversaw the construction of \$5 billion of projects, including the Ford Island Bridge, U.S. Pacific Command Headquarters Building, relocation support facilities for Patrol Wing TWO from NAS Barbers Point to MCB Hawaii, the recapitalization of one thousand Navy homes, and the clean-up of Kahoolawe island.

Throughout his distinguished career, Mr. Tamanaha has made a profound impact within Hawaii's engineering community. An inspiring and patient mentor of the young engineers in the charge, he has influenced the early careers of hundreds of City and County, Air Force, NAVFAC civilians, and Civil Engineer Corps officers, many who still fondly recall his sage advice, "can do" attitude, and vast engineering knowledge.

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