

2002 HCES Lifetime Achievement Award

DR. PAUL C. YUEN

The Hawaii Council of Engineering Societies Lifetime Achievement Award is given to a recently retired engineer who has contributed significantly to the development of engineering in Hawaii. We are pleased to announce this year's award is given to Dr. Paul C. Yuen, retired Dean of the College of Engineering, University of Hawaii at Manoa, and Professor Emeritus of Electrical Engineering.

Dr. Yuen received his Bachelors of Science in Physics from the University of Chicago in 1952.

He received his Masters of Science and Ph.D. in Electrical Engineering from the Illinois Institute of Technology in 1955 and 1960, respectively. He started his career as an Assistant Professor at the Illinois Institute of Technology in 1960 and transferred to the University of Hawaii at Manoa in 1961 as an Associate Professor. Dr. Yuen became a full Professor in 1965 and served as Chairman of the Department of Electrical Engineering from 1962 to 1969.

Dr. Yuen was Associate Dean of the College of Engineering from 1970 to 1979. He also served as the Director of the Hawai'i Natural Energy Institute from 1977 to 1981. Dr. Yuen became Dean of the College of Engineering in 1981 and held that position until his retirement in 1999. He also served as acting President of the Pacific International Center for High Technology Research from 1983 to 1988, which he helped to establish.



(continued on page 11)

2002 Young Engineer of the Year

TONY C.G. LAU, P.E.

Tony C.G. Lau, Hawaii's 2002 Young Engineer of the Year, was nominated by the American Society of Civil Engineers (ASCE) Hawaii Section because of his outstanding contributions and tireless commitment to the civil engineering profession and community. Tony currently serves as President of the Hawaii Section. He has received many awards for outstanding service as an individual and was also instrumental in national recognition brought to the Hawaii Section. His awards include:

- 1999 ASCE Outstanding Younger Member Group Award for Small Groups – Tony Lau, Hawaii Younger Member Forum (YMF) Director. This national award is given annually to the most outstanding younger member group whose section consists of less than 1000 members. The award included a \$500 check for Hawaii YMF activities.
- 1999 and 1996 ASCE Western Regional Younger Member Council, Outstanding Younger Member in an ASCE Activity. This regional award is given annually to the most outstanding younger member in an ASCE activity within the Western Region. The Western Region or Zone IV consists of the states of Washington, Idaho, Montana, Oregon, California, Nevada, Utah, Arizona, Alaska and Hawaii.

James E. Davis, Executive Director and Chief Executive Officer of ASCE in Reston, VA, endorsed Tony's nomination and applauded his "impressive contributions to the development of young engineers." According to Davis, the ASCE Hawaii YMF PE Exam Refresher Course,



(continued on page 11)

2002 ENGINEER OF THE YEAR

WESLEY R. SEGAWA, P.E.

The Hawaii Society of Professional Engineers is proud to announce that Mr. Wesley R. Segawa, P.E., has been recognized as its 2002 Engineer of the Year.

Mr. Segawa is President of Wesley R. Segawa and Associates, Inc. headquartered in Hilo with offices in Honolulu and Kailua-Kona. Mr. Segawa is a graduate of Hilo High School and the University of Hawaii at Manoa with a Bachelor of Science Degree in Civil Engineering. He is also currently enrolled at the University of Hawaii in pursuit of a Masters of Business Administration degree. Mr. Segawa is a Licensed Professional Engineer in the State of Hawaii in both civil and structural branches.

In addition to his professional accomplishments, Mr. Segawa is active in the Hawaii Society of Professional Engineers where he is the Private Practice Division Chairman and with the American Consulting Engineers Council, American Society of Civil Engineers, American Water Works Association, Consulting Engineers Council of Hawaii and the Structural Engineers Association of Hawaii.

Mr. Segawa is also currently a Hawaii Housing Authority Commissioner as well as Chairman of the Board of the Housing and Community Development Corporation of Hawaii. Mr. Segawa, a former Eagle Scout, will be recognized by the Boy Scouts of America with the Silver Beaver Award for his contributions to scouting.



(continued on page 11)

2002 Student Engineer of the Year

NGUYEN H. PHAN

The Hawai'i Society of Professional Engineers 2002 Student Engineer of the Year award is given to Nguyen H. (Wen) Phan. Wen has been one of the most outstanding students in the College of Engineering throughout his four and one half years in Electrical Engineering. Not only has he excelled academically, but also professionally and in his service to the department and the college.

Wen first visited the EE department while a senior at Kaimuki High School when he attended a meeting of the IEEE Student Branch. After graduating valedictorian, first in his class, he enrolled as a freshman and recipient of the prestigious Regents Scholarship. From the very start, Wen's thirst for knowledge and engineering experience was clearly evident. He joined the UH Micromouse team in his first semester, and in his second, sought a job at Adtech to get as much hands-on experience as he could find. Wen went on to lead a micromouse team in his sophomore year and under his leadership, took the team to competition; placing sixth. The following year, as a junior, Wen served as the Micromouse Chair, managing the overall operation of the project, which had grown to three teams with fifteen members. He began a tutorial program to train new members and updated the equipment in the lab. At the same time, he lead his team to a first place finish in the regional competition. He also took his knowledge and skills to intermediate and high schools to make presentations to interest and excite students about robotics and engineering.



(continued on page 11)



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SFPE	R. Miller	S. Dannaway
UH(assoc)	W.F. Chen	T. Dobry

HSPE, from page 9

Golf Tournament at the West Loch Golf Course is scheduled for Friday, September 20, 12:30 pm shotgun start. Please mark your calendars and plan on supporting the scholarship program.

Mandatory Continuing Education requirements for licensure is taking the nation. With only 4 out of the 50 states requiring CEUs in 1998, 4 years later 30 states require CEUs. The engineering community needs to develop a workable system for Hawaii.

NSPE Annual Meeting, July 2004 (Honolulu). NSPE handles all registration and coordination for the meetings via staff. HSPE's responsibilities include assistance with hospitality, tour recommendations, and recommendation of a non-profit organization to receive proceeds from the Gift to the City program.

MATHCOUNTS 2002 OAHU CHAPTER COMPETITION

This year 30 schools participated in the 2002 Oahu Chapter Competition. It was the biggest competition in which 30 teams and 80 individuals competed. This is equivalent to 50 teams competing in the jam-packed Kamehameha Schools Kalama Dining Hall. With this large increase in participation, much more proctor and scorer volunteers were needed. Since the Hawaii Society of Professional Engineers sponsors MathCounts in Hawaii and the competitions fall around Engineers Week, it was hoped that MathCounts volunteers would come from the engineering societies. A few years ago it was suggested to HCES that MathCounts be part of Engineers Week activities where engineers could volunteer and help proctor and score the competition. For the Oahu Chapter competition, the primary recruiters for volunteers were Lou Muzzarini for the Army Corps of Engineers (Honolulu District), Kevin Nakamoto for SSFM International Inc., Ron Flegal for engineering students, and Ed Chang for Hawaiian Electric Company, Inc.

Rowena Blaisdell and Pauline Marcello of Kamehameha Schools Bishop Estate lead the MathCounts Steering Committee. Chairperson is Dr. Michael Chun. For many years Kamehameha Schools has donated the use of their facilities for both the Oahu Chapter and the State Competition. There are many long-time volunteers from other professions besides engineering. One volunteer who was missed during this competition was the late Dr. Deane Kihara of the University of Hawaii Mechanical Engineering Department. He was part of the MathCounts Steering Committee always at the various MathCounts activities helping in any way he could.

Again this year there are many generous sponsors donating funds and services to keep MathCounts in Hawaii going. Most are from the engineering community. We would like to especially recognize and thank Aloha Airlines for again being a major sponsor of MathCounts. Without their help bringing the neighbor island Mathletes would almost be impossible.



The First Place Team from Iolani School, L-R: front holding trophies, Kevin Sin, Bryce Lee; rear, Coach Li Ann Wada, Mai Tsukikawa, Nolan Chung, and Coach Ann Yoneshige.

During the competition, Ken Morikami, Alva Nakamura, Scott Seu, and Pat Young with the "Coaches Session" kept the coaches occupied while the Mathletes were hard at work. This time the program included Norman Kawachika, Project Manager, City Dept. of Transportation Services, speaking on "Bus Rapid Transit (BRT) Program," and Michael Wong presenting "M is for MatheMagic."

In the scoring room, Ed and Carol Kellett again donated and gave away door prizes to some lucky scorers. The MathCounts Steering Committee apologizes to all the scorers for who missed out on the Kamehameha Schools special brownies.

This year the top six finishing Oahu Chapter teams in order of placement were Iolani, Punahou, Highlands Intermediate, Kaimuki Middle, Mililani Middle, and Kamehameha Middle Schools. They move on to the State Competition on March 16. Congratulations to Iolani coaches Li Ann Wada, Ann Yoneshige, Jill Stewart, and Annette Matsumoto for another excellent coaching accomplishment.

The top four Mathletes in the Countdown Round in order of finish were Kevin Sin of Iolani, Bryce Lee of Iolani, Tyler Dos Santos-Tam of Punahou, and Nolan Chung of Iolani. They were all awarded Texas Instrument Math Explorer Calculators.

The top four Mathletes in the written part of the competition, which includes the Sprint and Target Rounds in order of placement, were Nolan Chung, Eugene So of Punahou, Bryce Lee, and Tyler Dos Santos-Tam. Last year Nolan Chung placed first in the Countdown Round and third in the written part. Eugene So had placed sixth in the written part.

Presenting the awards were Dr. Michael Chun, MathCounts Chairman and President and Headmaster of Kamehameha Schools; Patricia Young, Department of Education; Sister John Joseph Gilligan, Chairperson, Hawaii Catholic Schools Diocesan Board of Education; and Dr. Sheryl Nojima, President, HSPE Honolulu Chapter.



The Awards Presenters, L-R: Dr. Michael Chun, Sister John Joseph Gilligan, Patricia Young, Dr. Sheryl Nojima, and Pauline Marcello.

**HAWAII CHAPTER**

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Membership:	Adrian Lee	951-5916	941-6489
Corp. Spon.:	Ron Iwamoto	533-2210	533-2686
HCES:	Ather Dar	486-2092	486-9261

NEW PROGRAMS AND ACTIVITIES PROPOSED FOR 2002-2003 YEAR

During the February meeting of the LGSEA Board of Directors, President Brian Ide announced several new programs for the 2002-2003 year. Past president Les Nagata will chair a committee that will be developing specifications for the use of light gauge metals in residential projects. Jim Walfish will head a committee focusing upon directed research and development. This committee will investigate issues regarding the use of light gauge steel through research and, laboratory testing. Mike Kasamoto and Les Nagata will be overseeing a committee which will be reviewing the Chapter By-Laws and detailed duties of the officers.

The technical committee, chaired by Bennett Fung, will be working on several projects. One project will be the development of checklists for design, drawing, inspection, and construction of light gauge steel projects. Another project will be the development of tables and possibly a spreadsheet regarding the design values (shear and tension) of screws based upon equations in the UBC and the AISI. Other possible programs include a bibliography of works regarding topics relating to light gauge steel and a review of the literature available for members.

Vice president Akira Usami discussed tentative new programs for the new year. Many intriguing programs were discussed.

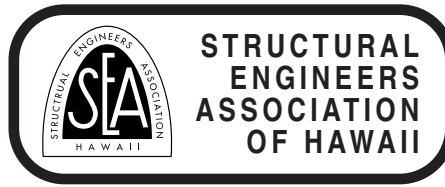
COMING EVENTS

March 7, 2002, 12:00 p.m.: HI Chapter LGSEA Board of Directors Meeting at Hawaii Pacific Steel Framing Alliance conference room.

Late March: General Membership meeting: Product demonstration of the Metalcrete and Infinity light gauge steel/concrete wall and floor systems. More information will be sent to members soon. Please call Akira Usami at 682-5747 or Brian Ide at 536-2108 for more information.

MEMBERSHIP IN LGSEA

LGSEA membership is open to engineers, architects, and trades people interested in light-gauge steel framing. Membership is \$50 per year. Call Brian Ide at 536-2108 with any questions and Adrian Lee at 951-5916 for membership forms.



P.O. BOX 3348, HONOLULU, HI 96801
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Director	Ibbotson Kellett	540-1030	526-1989
Past Pres	Dennis Hanatani	737-9488	735-1432

HIGHLIGHTS OF BOD MEETING

February 4, 2002

Reviewed and approved treasurer's report. Current general checking account balance: \$3,505.80. Current money market account balance: \$5,999.24. Current convention checking account balance: \$7,442.92.

Correspondence:

Any SEAHO member interested in volunteering to be a jury member for the Hawaiian Cement Concrete Achievement Award, please contact Tom Tanimura.

Committee Reports:

Program: The schedule and topics for General Membership Meetings and Seminars are being finalized. Contact Randy Chu for any suggestions on meeting and seminar topics. Randy Chu reported that the first general membership meeting will be held on March 20, 2002 at the Pagoda Hotel.

Membership: Paid assistance for database maintenance is still being considered. Other possibilities in doing the database are being looked at.

Japan Convention fliers have been sent out. They include the itinerary for the convention. Discounted registration must be postmarked

on or before March 15, 2002. Registration deadline is on May 1, 2002.

Old Business:

Credit Card Payment: Cost for using Credit Card Payments for Seminars is being looked at.

HHRF: Letters have been sent to the members of the Senate Commerce, Consumer Protection, and Housing Committee and the Senate Ways and Means Committee. The letters state the position of SEAHO on the current Hawaii Hurricane Relief Fund loss mitigation bill. A copy of the letter will be posted on the SEAHO website and sent to other HHRF bill sponsors.

New Business:

Transfer Convention funds to General Account: The Board of Directors authorized the transfer of monies in excess of \$5,000.00 from the convention checking account to the general checking account.

New Member Applications:

Mark Geoghegan of VSL has applied for membership as an Allied Member.

Raymond T. Nii of Hawaiian Bitumuls Paving & Precast, Inc. has applied for membership as an Affiliate Member.

Akira Usami of Dietrich Metal Framing has applied for membership as an Allied Member.

Please notify any SEAHO Officer prior to the April Board Meeting if you wish to comment on prospective members.

2002 CALENDAR OF EVENTS

March 15, 2002 – Deadline for discounted registration for the Japan Convention.

March 20, 2002 – SEAHO General Membership Meeting, Pagoda Hotel.

May 1, 2002 – Deadline for registration for the Japan Convention.

November 9-16, 2002 – SEAHO Annual Convention in Tokyo, Japan.

Next BOD meeting: Wednesday, March 6, 2002, 11:45 am.



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Past-Pres	Joanna Seto	586-4329	586-4352
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MARCH JOINT DINNER MEETING WITH INSTITUTE OF TRANSPORTATION ENGINEERS (ITE)

Program: Presentation by ASCE District 11 Director Mr. Blaine Leonard, "Olympic Engineering and Transportation". Events for the recently completed 19th Winter Olympic Games in Salt Lake City, Utah, took place at eleven separate sites within a 40 mile radius of downtown Salt Lake City. Planning for the 2002 Winter Olympic Games began in the late 1980's, at least seven years before the Games were even awarded to Salt Lake City. The presentation will cover the engineering aspects needed to be overcome in order to construct the Olympic venues such as the Utah Olympic Park, which included ski jumps and the one-mile long bobsled-luge track. In addition the presentation will cover the construction of the largest design build contract in the United States, the \$1.6 billion reconstruction of I-15 through the Salt Lake Valley that incorporates a sophisticated Intelligent Transportation System (ITS). The ITS was used extensively to help traffic flow during the Olympic Games.

Date: Thursday, March 21, 2002

Location: Maple Garden Restaurant
(NOTE NEW LOCATION)
909 Isenberg Street

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

Menu: Eight Course Chinese Dinner

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 Walter Billingsley, ASCE Treasurer, Belt Collins Hawaii, Ltd., 680 Ala Moana Blvd., 1st Floor, Honolulu, HI 96813-5406 postmarked by Monday, March 18, 2002. Reservations to Walter Billingsley by Monday, March 18, 2002 by phone at 539-1432, fax at 538-7819 or email at wbillingsley@beltcollins.com.

EXECUTIVE COMMITTEE MEETING HIGHLIGHTS

February 4, 2002

2002 CALENDAR OF EVENTS (subject to change)

April 18, 2002 - Hosted by the Environmental Committee with honored guest Zone IV Vice President Chuck Rendall

May 2002 - Hosted by the Legislative Affairs Committee

June 2002 - Hosted by the Construction Committee

July 2002 - Hosted by the Geotechnical Committee

August 2002 - Hosted by the Structural Committee

CONGRATULATIONS TONY LAU - 2002 HAWAII YOUNG ENGINEER OF THE YEAR

The ASCE Hawaii Section would like to thank Tony for all his years of hard work supporting the Hawaii Section. Job well done!!!

ASCE HAWAII SECTION 150TH ANNIVERSARY POLO SHIRTS FOR SALE

The ASCE Hawaii Section, in support of ASCE's 150th Anniversary, is selling navy blue Polo Shirts in men and women styles for \$30. The polo shirts have the "ASCE Hawaii Section Founded 1937" logo on the left chest area and the official ASCE 150th Anniversary logo on the left sleeve. Support ASCE's 150th Anniversary by buying a Polo Shirt. Contact Tony Lau at tlau@hawaiiipacificengineers.com or by phone at 524-3771 to place your order. Get yours today!!

HAVE AN ENGINEERING POSITION TO FILL?

Have you visited the ASCE Hawaii Section Job Listing web site recently? Yes, ASCE Hawaii Section has developed a new web page that allows the posting of job openings for the civil engineering community. For a minimum monthly fee of \$40/month, you can advertise your job opening to over 1,000 ASCE Hawaii Section members. The ASCE Hawaii Section website is linked with other ASCE section and ASCE student chapter websites, expanding the number of civil engineers with access to your job listing to over 123,000 worldwide. Over the last two years, there have been over 6,000 visitors to the ASCE Hawaii Section website.

Your job listing can be designed to include your company or department logo and any information you require. Please visit our ASCE Hawaii Section website to view our current posted job openings at www.ascehawaii.org.

For further information, please contact ASCE Hawaii Section's webmaster, Joanna Seto at (808) 586-4329 or at jseto@eha.health.state.hi.us.

ASCE/WALTER LUM SCHOLARSHIP AWARD APPLICATIONS AVAILABLE

Applications for the annual ASCE/Walter Lum

Scholarship Award are being accepted by the ASCE Hawaii Section until April 30, 2002. The ASCE/Walter Lum Scholarship assists those with financial need who are pursuing a degree in Civil Engineering. Applications are available from Dr. Horst Brandes at University of Hawaii-Manoa, Holmes Hall Room 383, the ASCE Student Chapter Office in Holmes Hall Room 143C, or the ASCE Hawaii Section web site. The scholarship is open to all juniors, seniors, and graduate students majoring in Civil Engineering at the University of Hawaii at Manoa with a cumulative GPA of 3.0 or above. Preference will be given to active UH-Manoa ASCE Student Chapter members and to those students who demonstrate financial need without other substantial financial assistance. The ASCE Hawaii Section Scholarship Committee will award one (1) \$1,500 scholarship at the end of the Spring semester. Please contact Joanna Seto at 586-4329 or jseto@eha.health.state.hi.us for more information.

DONATION REQUEST FOR SECOND ASCE SCHOLARSHIP FUND

Show your support for our Civil Engineering students at the University of Hawaii by sending your donations for the second ASCE Hawaii Section Endowed Scholarship Fund. Please send your contribution to Joanna Seto at the ASCE Hawaii Section address.

KNOW YOUR ASCE HISTORY

by C.S. Papacostas

Recent articles in this series showed how intricately involved Johnny Wilson was with the building of the old and new Pali roads. My research notes are replete with the accomplishments of "Kanaka Jack," as he was known during his college days at Stanford. What follows is but a small sample of events in Wilson's roller-coaster career that I gleaned from various sources, mainly Bob Krauss' biography "Johnny Wilson: First Hawaiian Democrat."

In 1899, Wilson formed the Mid-Pacific Navigation Company with two wealthy Chinese merchants, L. Ahlo and Wong Quai, and Henry Crane who had worked with him on the original Pali Road. At the same time, he won the bid for the construction of a sewer outfall at Kaka'ako with his Pali Road partner Lou Whitehouse. For reasons I was not able to ascertain,

(continued on page 5)

ASCE HAWAII YMF PROVIDES DINNER AT RONALD MCDONALD HOUSE OF HAWAII

On Sunday, November 18, 2001, the American Society of Civil Engineers (ASCE), Hawaii Section Younger Member Forum (YMF) provided dinner for guest families at the Ronald McDonald House of Hawaii. The dinner was donated and prepared by the Hawaii YMF. The menu included spaghetti, Italian sausage, garlic bread, pizza, tossed salad and to top it off, ice cream cakes.

The Ronald McDonald House of Hawaii serves as a home-away-from-home for families that come to Hawaii to obtain specialized medical treatment for their child's catastrophic illness. The Ronald McDonald House of Hawaii keeps families together during this trying time. Guest families come from many different cultures throughout the Pacific Basin as far away as the Micronesian Islands.

The Hawaii YMF values the importance of providing service to the community as well as

being professional Civil Engineers. To celebrate ASCE's 150th Anniversary in 2002, the Hawaii YMF has many similar community activities planned. For information on future Hawaii YMF activities, please visit the Hawaii YMF website at www.ascehawaii.org/ymf.html or call Hawaii YMF Director Willie Gacutan at 847-3763, x212.



YMF volunteers pose with their prepared meal.



2001-2002 OFFICERS

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St/Liaison	Meris Ota	957-1643
Nwsltr	Lori Nishida	583-7489
	lornish@hotmail.com	

Next YMF General Meeting

The next YMF general meeting is scheduled for Thursday, March 7 at 5:30 pm. Bar/restaurant to be determined. If you are interested in attending to find out what the YMF is all about and how much fun we have, please call Director Willie Gacutan at 847-3763, x212.

ASCE Job Classified

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

Thanks to Ronald McDonald House Volunteers

The YMF thanks the volunteers who donated their time and energy to provide and prepare dinner for the residents at the Ronald McDonald House of Hawaii in Manoa. The dinner took place on Sunday, February 17.

YMF Engineer's Week Display

The YMF thanks Steven Agena, Stacey and Lance Kimura and Tony Lau for constructing the YMF's Engineer's Week Display that was on display at Kahala Mall from February 16 to February 23. Steven designed and constructed the three-dimensional model of a typical street intersection and underground utility system while Stacey, Lance and Tony constructed the five-poster board exhibit showcasing civil engineering projects in Hawaii. If you did not get a chance to view the display at Kahala Mall, pictures are available on the YMF website at www.ascehawaii.org/ymf.html.

Hawaii Food Bank Volunteers Needed

The YMF is seeking volunteers to help at the 13th annual Hawaii Food Bank Food Drive on Saturday, April 27 from 2:00 p.m. to 5:30 p.m. at Restaurant Row. Volunteers will be waving signs and collecting donations of food and money with fishnets. If you are interested, please contact Tony Lau at 522-4726 by Thursday, March 28.

YMF Storm Drain Stenciling in May

The YMF will be participating in the City and County of Honolulu's Storm Drain Stenciling program in May. If you would like to volunteer your time to help keep waste out of our storm drainage systems, please contact Tony Lau at 522-7426. Lunch will be provided.

UH Student Chapter Zippy's Chili Fundraiser

The YMF is assisting the University of Hawaii Student Chapter with their Zippy's Chili Fundraiser. If you would like to help them by buying and/or selling chili tickets, please contact Student Chapter Liaison Meris Ota at 957-1643.

YMF Beach Cleanup in June

The YMF will be cleaning up one of our state beaches in June. For more information, please contact Director Willie Gacutan at 847-3763, x212. Lunch will be provided.

ASCE History, from page 4

Whitehouse formed his own company in October of that year and the two friends became fierce competitors. At that time, Wilson was on the U.S. mainland, so the job of overseeing construction fell to Joe Puni, another of the Pali Road veterans.

His partner L. Ahlo lost much of his wealth in the January 20, 1900 Chinatown Fire that followed the outbreak of bubonic plague a month earlier. The disaster decimated the Japanese and Chinese labor force and had a detrimental effect on the outfall project. By May, Wilson's contract was terminated for failure to perform. A year later, however, the legislature declared him "absolved from blame." That year, he took the hula troupe "Hawaiian Village" (starring his future second wife Jennie "Kini" Kapahu) to the Pan-American Exposition in Buffalo, N.Y. and the rest of the country.

Upon returning to Hawai'i in 1902, Kini and Johnny settled on the relatively inaccessible Pelekunu Valley on Molokai where they raised chickens and farmed. A contract to build a waterworks in Laha'ina brought back to life his construction business. During the next few years, he was hired to do a survey for a breakwater in Kala'aupapa, built two schoolhouses on Moloka'i, and constructed a culvert at Maliko Gulch on Maui.

In 1904, in partnership with contractor John Duggan, he outbid Whitehouse for a stretch of the Road to Hana, Maui, starting at Ke'anae in the direction of Kailua. (Note for the geotechnical engineers: this is the area after which the 1949 Territorial Soil Survey named the Kailua Soil Series).

In 1906, he landed a construction contract for a railroad spur from Kahuku to Hau'ula beyond Benjamin Franklin Dillingham's Oahu Railway and Land terminus. According to Krauss, a year later he went bankrupt for the second time. It was shortly after this setback that he became superintendent of roads, first on Maui and then on O'ahu.

In 1910, a salesman named Joseph Gilman convinced County Supervisor Jim Quinn that a new paving product called "bitulithic" was better than the asphalt then in use. The Board of Supervisors proceeded to execute a contract for the material. Apparently following Wilson's advice on relative costs, mayor Fern cancelled it. At about the same time Wilson was accused of moonlighting on private jobs. His defense

was that he did it on his own time.

Returning to private life in 1911, Wilson obtained financial backing from bigwig Lincoln Loy McCandless whom, on October 20, 1908, the "The Pacific Commercial Advertiser" had called "Link the land Baron." "Kanaka Jack" submitted the low bid of \$79,376 for a 5-mile stretch of road in He'eia, Kane'ohe. This was to be the first increment of the Kamehameha (Belt) Road around O'ahu. The Territorial Road Commission; however, awarded the job to the team of Lord & Young as "the responsible bidder" at \$79,710.

Johnny Wilson filed a lawsuit in circuit court and won a favorable decision that was later upheld by the Territorial Supreme Court. Testifying in his favor were Hugh Howell, W. E. Rowell and John F. Rawles described by Krauss as "respected engineers," the county engineer, and Benjamin F. Dillingham.

Among Wilson's other large projects were the construction of the Nahiku to Ke'anae section of the Maui Belt Road, operation the Mo'ili'ili quarry, and street construction for the Dowsett Company's subdivision in Nu'uano, O'ahu. On the Dowsett job, he applied concrete pavement, a first for Hawai'i. This, according to Krauss, was his last major job as a contractor.

In a September 21, 1999, "Honolulu Advertiser" story, Gordon Y.K. Pang points out that, as mayor, he pushed for the construction of Honolulu Hale (completed in 1929) and that he was the first in Hawai'i to use the mechanism of improvement districts for public works.

Again as mayor in the late 1940s, he pursued the condemnation of the Steiner property at Kuhio Beach in Waikiki where a hotel was being planned.

This sentiment of the brilliant, resilient and full of contradictions Johnny Wilson is reflected in a statement that Aunt Jennie "Kini" Wilson at age 87 made to news reporter Bob Krauss in March 1959 (as reprinted in the October 15, 2001 issue of The Honolulu Advertiser):

"Yes, it has changed. Poor old Waikiki! Sometimes I go down to the beaches in front of the new stores and just look. When I was a little girl there were no houses at all..." And after asked if she wished it hadn't changed, "No can help. So why kick. I'm not kicking. I'm just telling you about it."

Do you know of a civil engineering accomplishment or event that your fellow ASCE members might find interesting? Please send a brief description to C.S. Papacostas (fax 956-5014, email csp@wiliki.eng.hawaii.edu). Previous articles in the series may be found at the Section's web site. Just point your browser to <http://www.ascehawaii.org>.



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**“United We Stand - Creating a Different Future”
2002 Corps of Engineers Workshop**

**Friday, 12 April 2002
7:30 a.m. - 1:30 p.m.
Hale Koa Hotel**

Sponsored By:

**U.S. Army Corps of Engineers
American Institute of Architects, Honolulu Chapter
Consulting Engineers Council of Hawaii
General Contractors Association of Hawaii
Building Industry Association of Hawaii
Associated Builders & Contractors, Hawaii Chapter**

7:30 a.m.	Registration and Continental Breakfast in DeRussy Room
8:00 a.m.	Opening Remarks by Mr. James Freeman, President, AIA and Mr. James Bersson, Chief of Engineering & Construction Division
8:10 a.m.	“Future Work” by Mr. Ray Jyo, Deputy District Engineer for Programs & Project Management
8:30 a.m.	Break and adjourn to attend any four breakout sessions
8:40 - 9:10	Breakout Session #1
9:15 - 9:45	Breakout Session #2
9:50 - 10:20	Breakout Session #3
10:25 - 11:00	Breakout Session #4

Session Topics:

- Best Value Contracting
- A-E Negotiation Preparations
- DrChecks Automated Review System
- After Action Reviews
- Mechanical Engineering Aspects of Sustainable Design
- Doing Business with the Honolulu Engineer District (HED)
- Increase Your Opportunities Through SBA Programs and Services
- A-E Services and SF254/255
- RMS for Contractors - Quality Control System (QCS)
- Anti-terrorism and Force Protection
- IDIQ Contracts

11:00 a.m.	Break
11:15 - 11:45	Panel Discussion in DeRussy Room
Noon - 1:30 p.m.	Lunch, Awards and Guest Speaker

**“United We Stand - Creating a Different Future”
2002 Corps of Engineers Workshop**

Friday, 12 April 2002

7:30 a.m. – 1:30 p.m.

Hale Koa Hotel

REGISTRATION FORM

Name(s): _____ Phone _____

Firm/Company _____

Membership: _____ CECH _____ AIA _____ GCA _____ BIA _____ ABC _____ COE _____ Other: _____
(Continuing education units available for AIA members)

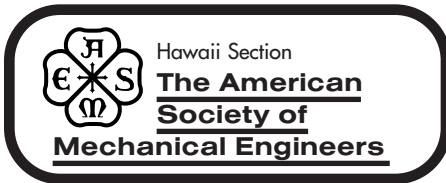
Registration Fee: \$99 if received by April 5/\$120 after that date Refund/Cancellation Deadline: April 5, 2001
(Fee includes continental breakfast, lunch, coffee breaks, hosted parking and one copy of the workshop manual)

Total Amount Enclosed: _____ (Check payable to AIA-Honolulu/Sorry – No credit cards) Indicate number of vegetarian lunches needed: _____

For planning purposes, please indicate the number of people attending each breakout session:

- _____ **Best Value Contracting** by Bruce Stevenson, Lynn Arakaki, Richard Say
The vision for the Federal Acquisition System is to deliver, on a timely basis, the best product or service to the customer, while maintaining the public's trust and fulfilling public policy objectives. If recent trends continue, more and more Federal acquisitions will be based upon Best Value, including Design-Build, IDIQ, and various other types of contracts. If you want to remain competitive in this continuously changing acquisition arena and have questions about the basic concepts of "Best Value Contracting," bring your questions to this session.
- _____ **AE Negotiation Preparations** by James Pennaz
Learn how the Government analyzes an AE price proposal including what cost items are allowable, unallowable, and controversial. This session will also address how the government develops prenegotiation objectives prior to the negotiation process.
- _____ **DrChecks Automated Review System** by Santiago Mor
DrChecks is required for all FY02 projects designed for the Honolulu Engineer District. A-Es will learn how to sort and annotate review comments on line and search for lessons learned on previous projects.
- _____ **After Action Reviews** by Wendell Awada
Learn about Honolulu Engineer District's new policy for After Action Reviews (AAR's). AAR's are conducted after each phase of a project and changes and improvements are incorporated in future projects. The AAR process and examples of changes will be discussed.
- _____ **Mechanical Engineering Aspects of Sustainable Design** by Wayne Muraoka
Learn how to apply the mechanical design features in a building to the Sustainable Project Rating Tool (SPiRiT checklist).
- _____ **Doing Business with the Honolulu Engineer District (HED)** by Monica Kaji
Learn what the Army Corps of Engineers Honolulu District buys and how to sell to the government. Also included will be an overview of various contracting methods.
- _____ **Increase Your Opportunities Through SBA Programs and Services** by Karen Sakihama, SBA, Hawaii District Office
The U. S. Small Business Administration has a number of programs available to assist small businesses increase their business opportunities. This presentation will cover government contracting assistance programs, financial assistance and other services available through the SBA.
- _____ **A-E Services and SF254/255** by Duane Arakawa
Become familiar with the evaluation and selection process for A-E contracts. Find out how we look at your SF 254s and 255s.
- _____ **RMS for Contractors - Quality Control System (QCS)** by Dorinda Won
Managing Corps of Engineers construction contracts made easy. Contractors will be required to use QCS on most new contracts. Satisfy COE reporting and tracking requirements using software provided by the Corps. See how this easy-to-use program can streamline construction management on COE projects.
- _____ **Anti-terrorism and Force Protection** by Robert Torn
Beginning with all FY02 projects, antiterrorism and force protection will be mandatory. Find out how this affects design and construction.
- _____ **IDIQ Contracts** by Richard Totten
A brief discussion will focus on the basic/essential legal concepts in the IDIQ area.

**Mail this form with payment (check payable to AIA-Honolulu) by April 5 to AIA-Honolulu, 1128 Nuuanu Ave.,
Honolulu, HI 96817. For more information call AIA at (808) 545-4242.**

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Dir 2-yr	Ron Flegel	455-0254

SPECIAL DINNER MEETING NOTICE

"The Raising of the Ehime Maru"

Date: Wednesday, March 13, 2002

Time: 5:30 p.m. Attitude Adjustment Time
6:00 p.m. Dinner
7:00 p.m. Presentation

Place: Pagoda Hotel & Restaurant, 1525 Rycroft Street

Cost: \$17 per person

"The Raising of the Ehime Maru" presented by LCDR Steven L. Stancy. LCDR Stancy is the Deputy Director for Carrier and Surface Ship Maintenance, Pacific Fleet Diving and Salvage Officer. A colorful and dynamic PowerPoint presentation with much graphics will be included. All other engineering societies are invited to attend. Please call Sam Gillie (543-4739) or Jim Grogan (254-2947) for more information and to let us know who is attending.

MARCH 23, 2002 COMBINED CYCLE POWER PLANT TOUR SCHEDULED

As part of our Power Technical Chapter bimonthly activities, a tour of the Kalaheo Partners, L.P. Power Plant (KPLP) in Campbell Industrial Park is scheduled for a Saturday, March 23, 2002, starting at 10:00 a.m. Our host will be Ziad Khalaf, plant manager. KPLP is a 180 MW combined cycle cogeneration plant with two gas and one steam turbine units. For more information, please contact Ed Chang at 543-4227 or e-mail him at echang@hei.com.

2002 MATHCOUNTS COMPETITION

ASME-HI would like to thank all the proctor and scorer volunteers who gave up their Saturday on February 9, 2002 to help with the competition at Kamehameha Schools. Organizations providing the majority of the volunteers included Hawaiian Electric Co., the Army Corps of Engineers (Honolulu District), University of Hawaii Engineering Students, and SSFM International Inc.

The next competition is the State MathCounts on March 16, 2002.

2002 FIRST ROBOTICS COMPETITION

We are happy to report that ASME member Kevin Dang represented ASME-HI as a mentor with the Mililani High School robotics team. Kevin reports that he and four other engineers enjoyed themselves working together with the students and teachers assisting with their ideas and helping to achieve results. The team met everyday at Mililani High School during the 6-week design, build, test and train period.

NOMINATIONS FOR ASME-HI 2002 PROJECT/DESIGN OUTSTANDING ACHIEVEMENT AWARD

The nomination deadline of April 30, 2002 is fast approaching. If you know of any mechanical engineering-type project or design worthy of recognition, please contact Ed Chang. The project or design must have been completed within the past five years. The nomination process is very simple, easy and quick.

ENGINEERING & ARCHITECTURE HISTORY MUSEUM

At our January 23 meeting, Chairman Jim Grogan revealed the idea of a Hawaii Engineering and Architectural museum using the old Kakaako Pumping Station. This project would be modeled similar to the Baltimore Inner Harbor area Public Works Museum that displays many replications of past Hawaii engineering accomplishments. The idea is to get all engineering societies, surveyors, and architects together for a combined project showing their accomplishments.

Jim Grogan has been the Hawaii Section's History & Heritage Committee chairman for many years. He had previously engineered the designation of the Ginaca Machine as an ASME International Historical Landmark. After visiting the Baltimore museum, he has come up with the idea of something similar for Honolulu. Stay tuned for future developments.

NEW MEMBER WELCOMED

We welcome Jon Winsley to the Hawaii Section and thank him for attending our February 13 meeting. Jon is a mechanical engineering graduate from the University of Arizona. He is currently working on a master's degree in oceanography at the University of Hawaii.

FROM ASME.ORG

The following item of interest is from ASME International:

ASME members save 10% in the U.S. Open University MBA Program. This proven program combines the best management practices and learning from around the world, with an emphasis on strategic analysis, interdisciplinary skills and independent judgment. Study online and earn your degree without giving up personal and professional commitments. Concentrated 9-week courses allow you to complete studies while you continue your career. Studying part-time, you could be just three years away from earning your MBA. Find out more at www.asme.org/asmvirtualcampus/Open.html.



PO Box 12204 Honolulu, HI 96828

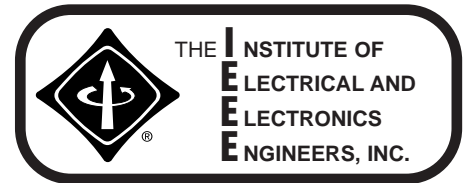
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SPRING ACTIVITIES

The EAAUH will be busy this spring, assisting the College of Engineering with some of their recruitment events and activities.

In February, the EAAUH participated in the Sacred Hearts Science Symposium where they spoke about the world of engineering and the role engineers play in today's society. The EAAUH together with the College of Engineering hosted a hands-on contest with the girls to see who can build the highest tower



IEEE Hawaii Section

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MONTHLY MEETING

(non-members are always welcomed to attend)

Date: March 21, 2002 (Thursday)

Time: 11:45 am Luncheon

Where: University of Hawaii Campus Center Cafeteria (Buffet Lunch)

Cost: \$10(UH Students are free)

RSVP: Oscar Libed at 441-8567 by March 18th

Topic: Implementing Interactive Video Services

More than two years ago, Time Warner - Oceanic Cable made available Video-on-Demand services to all digital cable subscribers on the Island of Oahu. It turns out this was the first large deployment of fully interactive VOD in the world and remains one of the few activated to date. You will find out from a technical perspective how it was engineered, implemented and how it works.

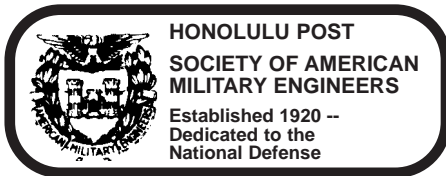
Speaker: Met Lebar, Transmission Systems Director for Time Warner Oceanic Cable (ex. UH EE student)

out of straws and paper clips.

The Annual TEAMS competition will be held in March at the University of Hawaii. Sponsored by the College of Engineering, with the support of the EAAUH, TEAMS is an annual competition between groups of intermediate and high school students from all over the state. These students, who spend months preparing and studying for this contest, work together to solve a series of challenging engineering, mathematics and science problems. The EAAUH will help to moderate this year's competition and has also sponsored a team to encourage student participation.

On April 13, 2002, EAAUH volunteers will join other faculty and students at the College of Engineering Open House. Alumni will join groups of prospective engineering freshmen and their parents on a tour of the college, to illustrate that the UH College of Engineering is the right choice for an exciting and fulfilling education and lifelong career.

The EAAUH is always in need of volunteers to help recruit Hawaii students into the College of Engineering. If you would like to show your support and volunteer for the Open House, or for more information, please contact Carrie Matsuzaki at 956-2286.



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Society of American Military Engineers Honolulu Post Scholarships



Award: Two \$1,500 Scholarships with Junior SAME Memberships

Eligibility:

- (1) Graduating high school senior or full-time student at a university with an accredited engineering or architecture program (Undergraduate or Graduate)
- (2) Engineering or Architecture Major
- (3) U.S. Citizenship
- (4) Minimum 3.0 GPA (include copy of latest transcript)
- (5) Military affiliation or experience (i.e., SAME member or dependent, ROTC) not required but given preference.

Requirement: Submit application information with transcript and the following documents type-written and double-spaced:

- (1) Resume of work experience, academic and extra-curricular accomplishments
- (2) Documentation proving acceptance to a university with an accredited engineering or architecture program and an indication of intent to study engineering or architecture.
- (3) Essay (one page maximum) written around this year's Engineers Week theme and its impact to society (see Engineers Week web site at www.eweek.org and www.same.org). Example: 1997 Theme "A Bridge to the Future" – essay could discuss how Roman military engineers built roads to quickly move their armies, improve trade and communication that built the great wealth of the Roman Empire.

Mail To: Society of American Military Engineers
Honolulu Post, C/O Kelly Busquets
46-058 Ipuka Street
Kaneohe, HI 96744

Deadline: Postmark 12 April 2002

For Further Information: Ms. Kelly Busquets, Telephone (808) 438-4980.



www.eng.hawaii.edu/~hspe

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Nat Dir	Bruce Witcher bewitcher@ihawaii.net	334-0322	334-0831

State BOD Meeting Highlights

February 1, 2002, Maui

NSPE Membership Consultant Annette Petrick conducted her membership development workshop, also coined the *Road Show*, consisting of a brainstorming session, evaluation, and presentation of a membership plan. Annette will compile a detailed plan for the board to consider for adoption.

President Kirk Tanaka reported on the Washington DC Winter Meeting. HSPE's contingency met with staff members of Senator Inouye, Senator Akaka, Representative Mink and Representative Abercrombie. The contingency discussed issues important to NSPE including: Math & Science Education funding, National Energy Policy, Research & Development tax credits, Federal A/E Procurement Policy, and Clean & Safe Water reauthorization and funding. The NSPE Annual Convention & Exposition is scheduled for July 11 – 13, 2002 at Walt Disney World in Orlando,

Florida. The convention will offer career level development opportunities, behind the scenes tours, and breakfast with Disney's Chief Imagineer, Mickey & Friends. Link to the NSPE website via the HSPE website.

PEI WR Vice Chair Clyde Nagata attended PEI's products meetings including the Career Transition Program and the Career Counseling Program. Clyde will make presentations at the Orlando meeting. PEC also developed a mentoring program to encourage licensure in the Construction industry. Clyde also reported on the Western Region Meeting; Eric Yamashige was elected VP-elect for the term 2002-03, VP-Junior Alan Werner (Washington) will install Hawaii's officers in July 2002, WR will conduct an informal meeting at the Orlando meeting to begin discussion on California's mega state society proposal.

Chapters are gearing up for Engineers Week and MathCounts. Big Island Chapter is holding a Kalua Pig fundraiser; Kona has their poker night fundraiser; Honolulu heads Engineer, Young Engineer & Student Engineer of the Year recognition; and Maui continues The Maui News supplement, MathMatters and Career Shadowing.

Nominating Chair Curt Beck requested nominations for 2nd vice-president and secretary. All chapters should have their slate of officers by April 26 for the mid June installations. Installations are: Maui (06/13), Hilo/Kona (06/14) and Honolulu (06/15).

Meeting schedule for remainder of current administration consists of conference calls: 03/13, 04/10 & 05/15; face-face meetings: 04/26 & 06/15 (annual meeting). All conference calls begin at 4:30 pm.

MathCounts is right around the corner. Chapter competitions are 02/09-Honolulu, Kona/Hilo & Kauai; and 02/16-Maui. State competition at Kamehameha School (Kapalama Heights) is 03/16. Volunteers can contact Sheryl Nojima at 521-0306 x105, or email: snojima@ghbn-hawaii.com.

Educational Scholarships are paid out for the 2001/2002 school year. The 2002 Scholarship

(continued on page 2)

SAME HONOLULU POST SCHOLARSHIP APPLICATION INFORMATION (Please complete with typewriter)

Name: _____

Citizenship: _____

Home Address: _____

City: _____ State: _____ Zip: _____

Phone: (_____) _____

E-Mail (if any): _____

School: _____

Major: _____

Student Number: _____ GPA: _____

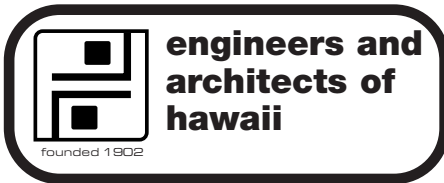
Student Status: Undergraduate _____ Graduate _____

Full Time Student: Yes _____ No _____

Anticipated Graduation Date: _____

Military Experience: _____

SAME Affiliation: _____



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An association for Hawaii's Engineers and Architects
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March 2002 Program

March Meeting will be held on March 1, 8, 15 and 22. No meeting on March 29 Good Friday. Meeting Speaker and Subjects will be announced.

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

Anyone wanting a weekly email meeting notice please send your email address to Sam Gillie at sgillie@hei.com.

The Following is EAH's Position Statement on: Photo Enforcement of Speed and Red Light Violations, Speed Zone Review Panel, Variable Speed Limits.

- EAH supports limited Photo Speed Enforcement, when:
 - used at specific locations that have been documented to have a history of accidents;
 - used at specific locations that have been documented to have traffic that travels significantly higher than the speed limit, which was established by the community considering the 85th percentile speed as a major factor;
 - used in School or Hospital zones;
 - and when used continuously at those clearly marked locations.
- EAH supports the limited use of Photo Red Light Violation Enforcement at clearly marked intersections that have been documented to have a history of red light violations and accidents, provided the intersection's timing signals have been reasonable adjusted and set and are not subject to arbitrary re-adjustment by the Enforcing Organization.
- EAH supports a Speed Zone Review Panel to set and review speed limits consisting of members from the Department of Transportation, Local Police, City and County Representatives, and Local Community Representatives.
- EAH supports and recommends a pilot project for Electronic Variable Speed Limits on Hawaii's Interstate and Rural Highways.

1. Explanation on Position Statement 1

Speed Zone Standards: The following is from the Washington State Department of Transportation:

- American law follows the basic idea that most people are reasonable and laws exist to control the few who are unreasonable or inconsiderate.
- The posted speed zones follow the same idea.
- Studies show that traffic moving at a speed

that is reasonable for the road and weather conditions results in fewer accidents.

- Drivers are more patient because a reasonably uniform speed allows progress with less passing, less delay, and fewer rear-end collisions.
- Many people believe that lowering posted speeds will mean fewer accidents, but studies do not prove this.
- Unrealistically low speeds frustrate many drivers, resulting in numerous speeding violations and unsafe driving, actually causing more accidents.
- Some motorists may try to make up time by taking a shortcut through residential or other areas that are not suited to higher speeds and increased numbers of cars.

But, if you lower the speed limit, people drive slower. Right? The answer is No. Just as people don't automatically drive faster when the speed limit is raised. These are common misconceptions, along with the mistaken belief that speed limit signs will decrease the accident rate and increase safety, and highways with posted speed limits are safer than unposted highways.

What if the majority is driving too fast? What's actually more dangerous is when motorists are traveling at varying speeds. With speed limits set at the 85th percentile speed, the speed differential - or range of travel speeds - is reduced so that more vehicles are traveling at near the same speed, with fewer vehicles traveling at extremely high or low speeds. Statistics show that roadways with speed limits set at the 85th percentile speed have fewer accidents than roads where the posted speed limit is above or below what the majority naturally travels.

You mean motorists influence the speed limit? Yes, because speed limits that reflect the behavior of the majority - keeping in mind that the majority drive in a safe and reasonable manner - are more likely to be obeyed. Speed limits that reflect the behavior of the majority are determined by what engineers call the "85th percentile speed," or the speed that 85 out of 100 cars travel at or below. This method is based on the principle that reasonable drivers will consider road conditions when selecting their speed of travel. Studies have consistently demonstrated that there are no significant changes in the 85th percentile speed following the posting of revised speed limits.

But if people don't obey the posted speed, they get a ticket. Right? The police can't be in all places at all times. They rely on realistic speed laws to control the unreasonable speeder whose driving behavior is clearly out of line from the majority of the traffic flow.

What do you mean by "realistic" speed laws? Realistic speed laws are desirable for a number of reasons:

- They invite public compliance by conforming to the behavior of the majority and by giving a clear reminder to the nonconforming violators.
- They offer an effective enforcement tool to the police by clearly separating the occasional violator from the reasonable majority.
- They tend to minimize antagonism toward police enforcement of unreasonable regulations.
- They inject an element of logic and reason into an otherwise arbitrary and often emotional issue.

2. Explanation on Position Statement 2

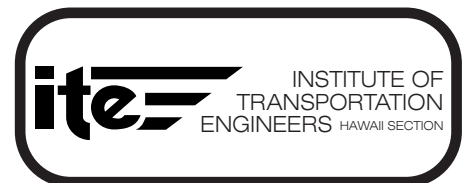
If intersection controls are properly engineered, installed and operated, there will be very little violation of the traffic control devices, deliberate or accidental. EAH supports the limited use of Photo Red Light Violation Enforcement at intersections that have been

documented to have a history of red light violations and accidents in order to document the effectiveness of the Red Light Photo enforcement system.

3. Explanation on Position Statement 3

EAH supports the establishment of a community Speed Zone Review Panel similar to panels in other states. If a city, county or community think the speed for a particular street or highway should be changed it can make a request to DOT for a review and investigation. DOT initiates an investigation to determine if a speed zone should be changed. DOT conducts an investigation using procedures in

(continued on page 11)



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January Meeting Highlights

The January luncheon meeting was held on January 14, 2001 at the Prince Jonah Kuhio Kalaniana'ole Federal Building in Honolulu. President Wayne Kawano reported that Engineers Week would be the week of February 16-23. Gordon Lum, Executive Director of the Oahu Metropolitan Planning Organization (OMPO), reported that the Citizen's Advisory Committee (CAC) would be meeting on January 16, 2001 to discuss the Aiea-Pearl City Livable Communities project and the revisions to the "Guide for Public Development" publication.

The featured speaker was Matt Nakamoto from the University of Hawaii at Manoa who presented his thesis entitled "Highway Inventory System Using GIS with Data Integration for Inventory and Maintenance." Matt explained that his thesis originated from a request by the Department of Transportation's Highway Maintenance Office (HWY-O). The project entailed the creation of an inventory and log based maintenance system using GIS that was able to perform queries with a graphical user interface. This system would enable HWY-O to locate and track maintenance done to light poles, overhead signs, roadside signs, guardrails, and culverts. Currently, HWY-O maintains three separate databases with detailed information regarding existing light poles, guardrails, and overhead signs. The new inventory/maintenance system would use these existing databases in conjunction with newly created databases for roadside signs and culverts to provide the HWY-O with a comprehensive inventory database. In addition, the system would maintain a maintenance database for each facility to allow the HWY-O to track the maintenance history of each facility. One drawback of the system is that each facility is identified based on the State's existing method utilizing a route and milepost number which can be confusing and/or inaccurate. A possible solution to this problem would be the use of a unique physical ID system.

March Meeting Announcement
See ASCE Meeting Notice

Dr. Paul Yuen, from page 1

Dr. Yuen took leave from his Dean's position to be the Senior Vice President for Academic Affairs of the University of Hawaii at Manoa from 1989 to 1992. He was the Acting University President during the 1992-1993 academic year, returning to the position of Senior Vice President and Executive Vice Chancellor in 1993. In 1994 he returned to the College as Dean and served in that position to his retirement in 1999. He currently volunteers his time as an Emeritus Professor.

Dr. Yuen has written over 100 technical papers, either as sole or co-author, on atmospheric dynamics, renewable energy and high technology. He has also given numerous oral presentations to technical meetings and community groups on these topics and on higher education. He is a member of various committees, boards and technical groups, and served as technical adviser and consultant to the Republic of China. Dr. Yuen is also a proposal reviewer for the National Science Foundation, Energy Research and Development Administration, and Department of Energy.

Dr. Yuen has received numerous awards, including the Hawaii Engineer of the Year in 1983. He was awarded the IEEE Centennial Medal and is a member of Sigma Xi, Eta Kappa Nu, Tau Beta Pi, American Society of Engineering Education, Marine Technology Society, IEEE and International OTEC/DOWA Association.

Dr. Yuen was nominated by the Hawaii Section of the Institute of Electrical and Electronic Engineers. In their letter, they note, "Dr. Yuen is noted as a champion for education of our college students and young engineers. He has published numerous papers and has been recognized with many honors and rewards. He is continually involved with Hawaii's industry and works tirelessly to provide for educational programs which match private and governmental sector requirements. As a member of our engineering community, Dr. Yuen is an upstanding and proud example for all of us to follow. He is an engineer who ventured beyond his technical boundaries to give back to the community in a most meaningful and memorable way."

Wesley Segawa, from page 1

His other civic contributions include holding Board of Director positions in the Kiwanis Club of East Hawaii, YMCA Waiakea Settlement, Malama Na Wahine Hapai and the Japanese Chamber of Commerce and Industry.

It is with great pleasure that the Hawaii Society of Professional Engineers award its 2002 Engineer of the Year to Mr. Wesley R. Segawa.

Tony Lau, from page 1

chaired by Tony, has grown from 26 attendees in 2000 to 48 in 2001 with a passing rate of at least 11 percent above the national average.

As a Project Engineer for Hawaii Pacific Engineers in Honolulu, Tony is primarily responsible for production of civil, public works, utility infrastructure and planning design documents. He has more than nine years of design experience including work on roadways, site development, utility infrastructure, drainage and public works related projects. Civil design documents include construction drawings, specifications, basis of design, construction cost estimates, drainage reports and site engineering investigation reports. Tony also has more than three years of environmental experience. Environmental reports that he has written include non-storm water discharge characterization studies, non-domestic wastewater discharges studies, and storm water pollution control plans.

And if that isn't enough, Tony has been active as a community volunteer giving his free time to support the Ronald McDonald House of Hawaii, Muscular Dystrophy Association of Hawaii, Children's Miracle Network, and the Honolulu Marathon.

Clearly deserving of this award, Tony Lau is an outstanding young engineer with many extraordinary and significant contributions for an individual his age. He is a role model for other young (and old) engineers!

Nguyen Phan, from page 1

Professionally, Wen continued to work at Adtech during the academic year his for four years; progressing from schematic capture and board testing to the specification, design, fabrication and testing of his own printed circuit boards used in the company's products. During the summers, Wen did internships in the Solid State Microwave division of Raytheon Electronic Systems Company, and in the Broadband Business Group at ON Semiconductor. By the time he graduated, Wen already had significant hardware design experience under his belt.

In the classroom, Wen consistently excelled earning an overall GPA of 3.9 in his arduous engineering curriculum, as well as a 4.0 GPA in his Speech minor. His leadership and personal communications skills were further evident when he acted as a facilitator in an introductory EE course as a sophomore, and as the Teaching Assistant in another engineering freshman seminar course as a senior.

In addition to his academic and professional achievements, Wen has consistently gone above and beyond in his service to the department and the college. Besides numerous presentations at recruiting and outreach events for the college, Wen was selected to represent the

student body in testifying before the State Legislative Committee on Higher Education, which resulted in a \$1 million allocation to the College of Engineering for the Hawai'i Center for Advanced Communications. He was one of the featured student speakers at the College of Engineering "friend raising" event in April 2001. Wen also took the lead of the EE Department's first ever Student Advisor Board established to help the department prepare for the next ABET accreditation visit.

Besides these activities, Wen constantly interacted with his fellow students, faculty, and staff throughout the college.

Wen graduated with his Bachelor of Science degree in EE in December 2001 and has accepted a job with the Digital Products Division of TRW in Redondo Beach, California. With his natural skills, and those he developed at UH, Wen is sure to do outstanding things as an engineer and leader in the future. He is truly a Student Engineer of the Year.

EAH, from page 10










accordance with nationally accepted traffic engineering standards. Factors taken into consideration are accident history, roadside culture, traffic volumes, and roadway alignment, width and surface. A major factor is establishing speed zones is consideration of the 85th percentile speed. This is the speed at or below which 85 percent of the vehicles are traveling. This is used as an indication of the speed most drivers feel is reasonable and safe.

When the investigation is complete, a report with photographs detailing the existing conditions and proposed changes is prepared. The report is sent for review. If the city, county or community agrees with the recommendation, the new speed zone is established. If DOT and the local road authority cannot reach agreement on the setting of a speed zone, the speed zone request would be referred to the Speed Zone Review Panel. The panel would be comprised of representatives from the Department of Transportation, Local Police, City and County Representatives, and Local Community Representatives. The panel hears DOT's recommendations and testimony from the local authority and makes the final decision.

4. Explanation on Position Statement 4

Traffic conditions vary through out any day and impact safe driving speeds. Fully Automated Variable speed limits have been developed and are in use in New Jersey, Tennessee, Washington, New Mexico as well as the Netherlands, Germany, Finland, and England have been shown to improve traffic through put and traffic congestion. The speed limits would be automatically controlled based on traffic flow, speed, time of day, and road conditions, such as fog, rain, construction, accidents, and congestion.

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