



Dr. Wai-Fah Chen

The College of Engineering cordially welcomes new Dean Wai-Fah Chen, a distinguished scholar, professor and researcher.

Prior to coming to UH, Chen taught at Purdue University, where he was a George E. Goodwin Distinguished Professor of Civil Engineering and former Chair of the Department of Structural Engineering in the School of Civil Engineering. He also worked previously as a consultant for Exxon's Production and Research Division on offshore structures; for Skidmore, Owings and Merrill on tall steel buildings; and for World Bank on the Chinese University Development Projects.

Chen holds a doctorate in solid mechanics from Brown University and received his master's degree in structural engineering from Lehigh University. He is originally from Taiwan, where he studied civil engineering at the National Cheng-Kung University as an undergraduate.

In addition to his excellent scholastic and teaching credentials, Chen brings with him extensive research experiences in several areas including constitutive modeling of engineering materials, soil and concrete plasticity, structural connections, and structural stability.

A widely respected author, Chen has authored or co-authored close to 20 books and more than 500 papers in journals and conference proceedings. He is also the editor of several book series.

Chen is the recipient of numerous engineering teaching and research awards. He was most recently elected to the Academia Sinica in Taiwan, awarded an Honorary Membership in the American Society of Civil Engineers in 1997, and elected to the National Academy of Engineering in 1995. In addition, he has received several prestigious awards including the AISC T.R. Higgins Lectureship Award, the ASCE Raymond C. Reese Research Prize, and the ASCE Shortridge Hardesty Award.

Please look for further articles on Chen in upcoming issues of *Quadrangle*.



On behalf of Governor Benjamin Cayetano, Chief of Staff Sam Callejo presented Yuen with a proclamation in which Cayetano proclaimed May 6, 1999 "Dean Paul Yuen Day."

College bids farewell to Dean Yuen

After an illustrious career that spanned nearly four decades at the University of Hawaii, Dean Paul Yuen has retired from the College but remains actively involved with the College's affairs.

To commemorate Yuen's exemplary career as well as his recent retirement, a special event was held last May in his honor. Yuen's family, friends and colleagues gathered at the Honolulu Country Club to celebrate his retirement. Program speakers included UH President Kenneth Mortimer, Chairman of the UH Board of Regents Donald

Kim, Chief of Staff Sam Callejo, and House Representative Lei Ahu Isa.

Yuen's career at the University of Hawaii began in 1961, when he left behind a faculty position at the Illinois Institute of Technology to join the fledgling Department of Electrical Engineering at UH.

"It is never easy for a new department to attract talented and committed faculty," said Mortimer. "It was a stroke of good luck for the University that Paul and his family wanted to come home to the islands at just that

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THE QUADRANGLE



A Newsletter for Alumni and Friends

College of Engineering

University of Hawaii at Manoa

Spring 2000

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Avant! donates multi-million dollar software package

A generous gift made by Avant! Corporation to the University of Hawaii will provide faculty and students of the College with the tools to learn about the latest in integrated circuit (IC) design automation.

Avant! Corporation, a leader in the intensely competitive IC design tool industry, has pledged \$8-10 million worth of support to the University over the next five years. IC design tools are used by companies that manufacture semiconductors, computers, consumer electronics, as well as multimedia and telecommunications products.

Avant!'s initial gift consists of one copy each of the company's 45 software products, which assist design engineers in the physical layout, design, verification, simulation, timing and analysis of advanced integrated circuits. The software will be housed in a new design laboratory, which will receive

additional maintenance support from Avant!.

According to Gerald Hsu, chairman, president and chief executive officer of Avant!, Hawaii's strategic location between the Asian market and Avant!'s California headquarters played a major role in the company's decision to pledge such a gift to the University.

Avant! foresees a promising future for the growth of technology business in Hawaii, and has decided to support UH's efforts in staying at the forefront of new technology development.

"These modern tools will beef up the capability of the University of Hawaii to increase the competitiveness of the State of Hawaii," said Hsu.

According to Mortimer, Avant!'s gift is just the kind of support needed by the University to keep its faculty and students com-

petitive in the development of high technology.

"This donation provides the multi-year support that is crucial to maintaining a first-class facility and it is illustrative of the kind of public-private partnership that characterizes vital universities.

"We are deeply grateful to Gerald Hsu and Avant! Corporation for their confidence in our state and our University," said UH President Kenneth Mortimer. "We mean to repay his generosity by helping to fulfill his hopes for our state's future."

Established in 1995 as the result of a merger, Avant! currently employs more than 1,000 people in 43 sites around the world. The company aims to establish a significant market position as a supplier of design software for the IC design automation market. It is one of the fastest growing companies in a \$4 trillion industry.

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Yuen retires after nearly four decades of service

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moment."

During his 38 years of service at the University, Yuen often went beyond the call of duty, serving wherever his administrative skills were needed. Not only was he professor and dean of the College, he also served as director of the Hawaii Natural Energy Institute, assistant to the chancellor, senior vice president for academic affairs, senior vice president and executive vice chancellor, and even acting president of the University.

"Wherever and whenever his administrative skills were needed, he was ready and able to contribute," commented Mortimer. "We are all grateful."

"Each of the roles he fulfilled, he did so with dedication, with a sense of passion for what he was doing and with a deep commitment to doing the right thing to make the Univer-

sity of Hawaii a great place to learn, a great place to work, and a great place to dedicate one's life," said Kim.

Under Yuen's leadership, the College became one of 14 in the nation recognized as high interest

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Dean Paul Yuen (far right) receives congratulations from UH President Kenneth Mortimer (middle) and Mrs. Mortimer (left) at the retirement party last May.

Congratulations Spring & Summer 1999 graduates

Doctor of Philosophy Mechanical Engineering

Kathleen M. Doherty

Master of Science Civil Engineering

Jaya Das

Chad H. Nakamoto

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Electrical Engineering

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Mark S.S.K. Ching

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Chi Fai Wat

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Mechanical Engineering

Joseph V.C. Barrios

Szu Min Chang

Vernalynn S. Chun

Jason I.M.K. Hall

Philip W.Y. Lee

Baiyang Luo

Dan A. Sakata

Chow Nam Wong

Merilee T. Yoshioka

Yuen retires from College

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schools by TRW and one of 87 named key schools by The Boeing Company. Recruited by leading companies and firms nationwide, graduates of the College have succeeded both on the islands and on the mainland. The College's faculty has achieved excellence in both teaching and research. Several faculty members have won prestigious research awards from funding agencies such as the National Science Foundation and the Office of Naval Research.

According to Kim, it is not Yuen's style to call attention to himself. Rather, Yuen is down-to-earth, approachable, quiet but forceful when necessary, and often leads by example. Indeed, when asked about his accomplishments, Yuen prefers to talk about the faculty and students of the College.

"I am proudest of two things - the faculty and what they are doing and going to do and the students and graduates who are making a name for themselves, which is also because of what the faculty do," Yuen says.

Devin Nakayama, President of the Engineering Council of the University of Hawaii, expressed gratitude to Yuen on behalf of the students and alumni of the College. He reminded Yuen of the significant fact that his dedication and commitment to the students have influenced the lives and professional careers of countless engineering students and graduates who attended the College.

"I'd like to express my sincerest thanks and deepest gratitude and appreciation to Dean Yuen for everything that he has done," said Nakayama. "Dean Yuen will be sorely missed."

Members of the Engineering Alumni Association of the University of Hawaii (EAAUH) have chosen to express their gratitude to Yuen by making substantial contributions to the Paul Yuen/Engineering Alumni Association Enrichment Fund. Currently standing at more than \$18,000, the Fund will support programs to educate students in grades K-12 about engineering and technology, to prepare these students for tomorrow's world today. "While the Association celebrates his retirement with him, we will certainly miss his support and guidance," said EAAUH President Barry Muranaka.

The College wishes to express to Yuen its warmest mahalo for his service and dedication, and to wish him continued health and happiness during his retirement years.

Rainbow mouse solves difficult maze

A difficult maze made for challenging conditions at the 1999 Institute for Electronics and Electrical Engineers Region 6 Central Area Micromouse Competition.

The micromouse is a robot that can solve a maze without any human intervention. It functions with three major components. The infrared sensors act as the "eyes," the motors allow the mouse to move, and the CPU enables the mouse to "think."

'Iole 'Anuenue, the "Rainbow Mouse" built by a group of electrical engineering students at the University of Hawaii, finished second in last year's tough competition. According to Dr. Tep Dobry, advisor of the UH Micromouse Team, the event was particularly difficult due to a newly constructed maze used for the first time in this competition. As none of the 10 mice entered in the

competition was able to solve the maze during the competition, the judging criterion had to be modified as well.

"Instead of fastest time, the number of cells [in the maze] explored by the mouse was used to determine placement," Dobry said.

However, after the competition was over, the UH team made a few changes to their mouse and enabled it to solve the maze. Although 'Iole 'Anuenue's successful search for the center of the maze came too late to secure victory for the UH team at the competition, it nevertheless impressed the crowd.

In addition to 'Iole 'Anuenue, a second micromouse from UH also competed in the event and finished sixth.

"[The sixth place finish was] an impressive performance for a team entering for the first time," said Dobry.

Regardless of the competition results, members of the UH Micromouse Team said that their participation in the micromouse project was a valuable learning experience.

Team member Frank Price III said that the project provided valuable experience in project planning, management, and bringing a conceptual design to fruition in the real world. Most of all, it enabled the team members to work in collaboration.

"[The most memorable aspect of the project] was collaboration with other engineers for the successful attainment of design objectives," said Price.

Na Holokai is the Hawaiian word for "sea travelers." With a flat bottom for easy straight tracking and a skeg on the bottom, Na Holokai resembles a Hawaiian longboard.

CE students turn concrete into canoe

Concrete canoe, a seeming oxymoron, has lost its original sense of contradiction thanks to the determination and efforts of a special group of civil engineering students.

A long tradition of the American Society of Civil Engineers (ASCE) Student Chapter, the annual concrete canoe competition challenges aspiring civil engineers across the nation to build floating vessels out of an unlikely material. Though concrete may never become canoe builders' prime material of choice, it has come a long way.

For a group of about 30 civil engineering students at the College, building a concrete canoe that floats was no cruise. It took months of hard work and dedication. However, the students' efforts paid off as the UH Canoe *Na Holokai* finished fourth out of 16 in the 1999 ASCE Southwest Pacific Regional Conference, held at the University of Southern California last March.

The canoe competition included an oral presentation, a visual presentation and canoe races. According to UH team member Jennifer Chang, attending the conference was an exciting experience. She especially enjoyed meeting CE students from other universities.

"The level of competition was extremely high," said Chang. "I learned that the University of Hawaii was capable of challenging the other universities."

What made it all the more challenging for the UH team was the fact that due to Hawaii's geographical location, the UH team was on a much tighter schedule to finish the canoe.

"We had to ship our concrete canoe [to California] by boat, which took several weeks. The other schools just had to drive their concrete canoes by truck and arrive there the same day.

"As we got closer to our deadline to ship our canoe to California, some students worked overnight to

the next day without any sleep!" Chang said.

Team member Jimmy Lam commented that the most valuable experience he gained from the canoe project was working with other students as a team.

"Many people feel that engineers are anti-social and not really good in communication skills," said Lam. "But through [the project] I learned how to work in a team that consisted of people that I didn't initially know."

"We all had different ideas and opinions," said Chang. "We had to put all these ideas together to complete our common goal of building our canoe."

In spite of all the difficulties and challenges, the team excelled at the conference and the feeling of achievement made it all worthwhile.

"Our paddlers for the year 2000 are so pumped up that they want to paddle the canoe over to the next conference!" said Lam.



A Donor
Report For
Alumni and
Friends

College of
Engineering

University of
Hawaii at
Manoa

1998 - 1999

Mahalo '98-'99 fund drive donors

Thanks to the generosity and continued support of our friends and alumni, the 1998-1999 College of Engineering Fund Drive raised a total of \$935,368. Both the amount of donations and the number of donors show an increase as compared to the last fiscal year. The College is grateful for your contributions and would like to extend a heartfelt mahalo to all of you, on behalf of the students and faculty of the College.

Your generous contributions enabled us to provide scholarships and fellowships to our students, and to support our students' extracurricular activities as well as the professional development of our faculty. In addition, private contributions were also used to provide departmental support and to fund a variety of the College's programs in community outreach and relations.

Thanks to you, 60 of the College's undergraduates received scholarships totalling \$115,728. Several of our student engineering teams continued to excel in regional and national competitions. For example, our Micromouse Teams placed second and sixth in the IEEE Region 6 Central Area Micromouse Competition held in California last April. Our Concrete Canoe Team placed fourth in the 1999

ASCE Pacific Southwest Regional Conference held last March.

Your support also provided the College with the means to host once again TEAMS, or Tests of Engineering Aptitude, Mathematics and Science. This annual event encourages Hawaii's secondary school students to explore their interests in engineering and to start planning for an academic career at the College of Engineering.

Contributions raised through the corporate fund drive will be used to upgrade and enhance engineering instructional equipment. Plans are underway for a new undergraduate laboratory in environmental engineering for the Civil Engineering Department. The Electrical Engineering Department will receive new equipment for its computer, digital electronics, systems and micro-electronic circuits and electronic instruments laboratories. The Mechanical Engineering Department will have new workstations, computer monitors and software programs for its students.

Once again, we would like to thank you for making the 1998-1999 College of Engineering Fund Drive a success. We hope that all of you will continue to support our students and faculty and our efforts in upkeeping the College's tradition of excellence.

Chai rewards teaching excellence

Thanks to former Department of Mechanical Engineering Chairman Hi Chang Chai, the College is now able to honor its outstanding faculty with excellence in teaching awards.

To be presented annually at the spring convocation, the Hi Chang Chai Excellence in Teaching Awards will honor three engineering faculty members each year, one from each department. All tenured, tenure-track or 100 percent FTE faculty members are eligible for the awards. Graduating seniors from the College will vote for winners of the awards.

For the 1998-1999 academic year, the awards went to Drs. Beei-Huan Chao (ME), Tep Dobry (EE) and Ian Robertson (CE).

Chai said that he has established the awards because he believes that teaching is the most important responsibility of professors.

"I'd like to honor those who excel in the teaching of undergraduate courses," Chai said.

In addition to honoring excellent faculty members, Chai also established the awards in order to express his appreciation to the College.

"[I'd like] to practice what my father taught me: to be thankful, to become a person who can assist others, and to serve the society," Chai added.

The College would like to express its sincerest gratitude to Chai for establishing the Hi Chang Chai Award Endowment.

Chai was a full-time faculty at the College from 1963 to 1992, and is currently an Emeritus Professor. During his career at the College, he received the University's Excellence in Teaching award and five American Society of Mechanical Engineers outstanding faculty awards. In addition, he organized the ME honor society Pi Tau Sigma in 1969 and served as its advisor for 17 years.

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Thomas H.T. Young
Todd R.K.W. & Karen L. Young
Wah Chun Young
Ali Yousefpour
Byung Hwan Yu
Ernest T. Yuasa
Howard H.W. Yuen
Kenn W.G. Yuen
Michael R.K. Yuen
Paul C. Yuen
Seung Fa Yuen
Timothy K.S. Yuen
Kyle Y. Yukumoto
Bobby W.K. Yung
Robert T. Yutaka
Christopher K.M. Zane
Clint T. Zenigami
Yu Shan Zhen
Allen Zukemura

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This report acknowledges all donors from July 1, 1998 to June 30, 1999. We have made very effort to report each donor name as accurately as possible. Please inform us of any errors so that we can promptly update our records. Some alumni and friends who support other UH colleges are recognized through publications of those colleges. If you want to support the College of Engineering, please indicate so on your next gift.

TEAMS challenge future engineering students

How do you design a large steel roller coaster that will give a smooth and safe ride to visitors of an ocean side amusement park?

Sounds like an engineering problem? Welcome to TEAMS, or Tests of Engineering Aptitude, Mathematics and Science. Sponsored by the Junior Engineering Technical Society, TEAMS is a unique and

challenging academic competition that stimulates the interest of secondary school students in engineering.

Designed to measure the aptitude of students interested in pursuing a college education in engineering, TEAMS introduces students to an "engineering team" work environment and enables them to discover what engineering is all about. Students who compete in

TEAMS refine their academic skills in multiple areas and gain valuable team-building as well as communication skills.

Last year, students from 18 secondary schools across the state took part in TEAMS, hosted by the College last February at the Campus Center.

Iolani School captured overall and two divisional victories. Top scoring teams in the other divisions included St. Andrew's Priory, Seabury Hall, Kailua High School, Mililani High School, and Kamehameha School.

Four teams placed in the top 10 national rankings for their respective divisions. Divisions are based on the size of senior class enrollment and school admission policy.

A unique feature of TEAMS is the fact that each team is paired up with an industry mentor and sponsor. Last year, 33 industry mentors and sponsors from local engineering firms and engineering societies took part in preparing student teams for the competition. Working closely with the student teams during the intensive preparation for TEAMS, the mentors provided additional insight on how math and science relate to real-world engineering.

The College wishes to thank the following organizations for sponsoring last year's TEAMS:

- American Society of Civil Engineers
- American Society of Mechanical Engineers
- CH2M Hill
- College of Engineering
- Engineering Alumni Association of the University of Hawaii
- GMP Associates Inc.
- Hawaii Water Environment Association
- Hawaiian Electric Company
- Institute of Electrical & Electronics Engineers
- M & E Pacific
- Society of American Military Engineers

Mahalo to Golf Tournament sponsors

- Akinaka & Associates Ltd.
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- Times Supermarket
- URS Grenier Woodward Clyde
- Waikele Golf Club
- Wesley R. Segawa & Associates Inc.
- Wilson Okamoto & Associates Inc.
- The Wisteria Restaurant
- Y. Ebisu & Associates

TEAMS is a three-hour competition that includes 100 multiple-choice questions related to math, biology, chemistry, computer science and visual interpretation of information; as well as in-depth, open-ended engineering problems.

Faculty Highlights

SPECIAL ACHIEVEMENTS

Dr. C. S. Papacostas

CE Professor C. S. Papacostas was elected president of the Hawaii Section of the Institute of Transportation Engineers (ITE) last June. The ITE is an international scientific and educational association, whose members include transportation professionals from more than 80 countries. The organization aims to meet human needs for mobility and safety, and to promote professional development of members through the support of education, research, public awareness and exchange of professional information.

Dr. Patrick Takahashi

CE Professor Patrick Takahashi received the 1999 Stephen D. Bechtel Jr. Energy Award last October at the annual convention of the American Society of Civil Engineers (ASCE), held in Charlotte, North Carolina. Takahashi, director of the Hawaii Natural Energy Institute and vice president for development of the Pacific International Center for High Technology Research, assisted with the writing of the first Ocean Thermal Energy Conversion bill for the U.S. Congress. To date, Takahashi has received more than 30 research, academic and training grants from various energy and space foundations.

RESEARCH HIGHLIGHTS

Dr. Horst Brandes

CE Assistant Professor Horst Brandes received funding support from the Hawaii Department of Transportation (DOT) Highways Division for his research entitled "Hawaii superpave demonstration project: measurement of asphalt mix design parameters using image analysis." The objective of this project is to develop a reliable, cost effective and environmentally friendly method to measure basic volumetric properties of asphalt mixes. Based on image analysis techniques, this proposed method will be used for quality control during all phases of asphalt road construction. The DOT has also awarded continued funding for

another one of Brandes' projects entitled "Creep characterization of residual tropical soils for engineering design." For this project, Brandes is investigating soil deformation on Hawaii's sloping terrain due to complex chemical and mechanical weathering processes. Results from his research will be used to build prediction models, which will help reduce expensive damage caused by soil deformation to man-made structures.

Dr. Mike DeLisio

TRW has awarded EE Assistant Professor Mike DeLisio funding for his project entitled "Advanced quasi-optical architecture." The objective of this project is to investigate novel quasi-optical architectures, including quasi-optical phase conjugation and the elimination of substrate modes.

Dr. Marc Fossorier

EE Assistant Professor Marc Fossorier has received funding from the Channel Coding Group of LSI Logic for his project entitled "Self-synchronized punctured convolutional codes." Punctured convolutional codes provide an attractive error correction method as they make it possible to adjust the code rate with respect to channel conditions without modifying the decoder at the receiving end. The objective of Fossorier's project is to investigate the implementation of punctured convolutional codes in conjunction with synchronization, another important feature in a high-speed decoder realization.

Dr. Lloyd Hihara

ME Associate Professor Lloyd Hihara received funding from TRW for his research entitled "Advanced ceramic films." It has been estimated that one out of five environmentally induced failures in electronic circuits is due to humidity. The development of inexpensive ceramic coatings for hermetic barriers on electronic circuits will lead to lower overall costs and increased reliability of electronic circuits. Hihara will develop, analyze and test ceramic films for coating purposes. Results

from his research will have applications in the automotive, aerospace and marine industries.

Dr. Craig Newtonson

The State Department of Transportation Highways Division has awarded research funding to CE Assistant Professor Craig Newtonson for his project entitled "Evaluation of concrete durability and corrosion resistance of concrete structures in marine environment." Corrosion due to chloride intrusion, permeability and progression of the electrochemical reaction is a common problem for existing structures along Hawaii's shoreline. By conducting both field and laboratory studies, Newtonson will evaluate the effectiveness of various corrosion inhibiting methods. Results from his research will provide a basis of comparison for these methods.

Dr. Peter Nicholson

EE Associate Professor Peter Nicholson received continued funding from the State Department of Transportation Highways Division for his research entitled "Evaluation of static and dynamic properties of calcareous soils from penetration testing." Nicholson is developing methods to identify the liquefaction potential of calcareous soils and to evaluate potential hazards or risks associated with such potential. Liquefaction is a devastating type of soil failure that can cause extensive property damage and loss of lives.

Dr. Chittaranjan Ray

CE Assistant Professor Chittaranjan Ray received funding from the Hawaii Department of Agriculture (HDOA) for his project entitled "Review of registration applications for selected pesticides for use in Hawaii." Each year, the HDOA receives approximately 25 applications for the registration of new pesticides. Each application is rated for the pesticide's potential to contaminate ground water and soil. Ray will review applications for pesticides that exhibit high potentials for contamination.

Dr. Panos Prevedouros

CE Associate Professor Panos Prevedouros received continued support from the State Department of Transportation for his project entitled "Investigation of the effects of limited ramp closures along the H-1 Freeway." Prevedouros is investigating how limited ramp closures at selected locations along the H-1 Freeway contribute to a smoother flow of traffic and reduce travel time for commuters.

Dr. Wayne Shiroma

TRW has awarded EE Assistant Professor Wayne Shiroma continued funding for his research entitled "Three-dimensional solid-state power sources." Shiroma is seeking to make fundamental advances in solid-state power-source architectures for next-generation wireless communication technologies. In addition, Shiroma is conducting another project entitled "Active and reconfigurable photonic-bandgap structures," with support from the Army Research Office. Photonic-band gap structures, a new class of synthetically engineered materials, exhibit electromagnetic wave properties similar to those of electrons in semiconductor crystals. The objective of Shiroma's research is to create novel architectures for high-frequency components such as oscillators, amplifiers and antennas, by incorporating active devices into the photonic-band gap structures.

Dr. Amarjit Singh

The State Department of Transportation awarded CE Associate Professor Amarjit Singh continued funding for his project entitled "Determination of interrelationships between organization system variables during implementation of change." By studying the relationships between various project management system variables, Singh will develop scientific systems to design and implement organizational changes. Such systems will enable the DOT to keep abreast of modern engineering management developments.

Alumni News

1950s

●**Albert Hamamoto** (CE 50) works for Ralph S. Inouye Co. Ltd. ●**Owen Miyamoto** (CE 50) is a self-employed engineering consultant. ●**Mae Nishioka** (CE 50) is retired. ●**Herbert Muraoka** (CE 51) is retired. ●**David Yokoyama** (CE 51) is retired. ●**Tamateru Kodama** (CE 52) is vice president of Ralph S. Inouye Co. Ltd. ●**Wallace Miyahira** (CE 54) is president of Castle & Cooke Inc. ●**Delwin Ching** (CE 57) works part time for Austin Tsutsumi & Associates. ●**Harold Miyamoto** (CE 57) is semi-retired. ●**Calvin Kim** (CE 59) is president of Calvin Kim & Associates Inc. ●**Daniel Sato** (CE 59) is retired.

1960s

●**Peter Patacsil** (CE 60) is an assistant professor of mathematics at the University of Guam. He received the University of Guam Award for Excellence in Teaching in 1999 and is a co-recipient of the Award for Excellence in Col-

legiality from the College of Arts & Sciences. ●**Kenneth Yonamine** (CE.60) works for the Board of Water Supply as land administrator. ●**Richard Esaki** (CE 61) is retired. ●**Malcolm Koga** (CE 62) is chairman of Koga Engineering & Construction Inc. ●**Peter Lee** (ME 63) is a mechanical engineer with the U.S. Army Corps of Engineers. ●**Kenneth Nagatani** (CE 63) works part time for Hawaii Pacific Engineers. ●**Robert Sarae** (CE 63) works in the Department of Design and Construction for the City and County of Honolulu. ●**Benjamin Hung** (CE 64) is a structural engineer with the Pacific Division of the Naval Facilities Engineering Command. ●**Henry Nagatani** (CE 64) is chief of the design branch for the Department of Public Works. ●**Randolph Ouye** (CE 64) works for Gentry Homes Ltd. ●**Robert Ishida** (CE 65) works for Stanley Yim & Associates as a civil engineer. ●**George Shintani** (ME 66) is a

mechanical engineer at the Pearl Harbor Naval Shipyard. ●**Keith Higuchi** (CE 67) is a construction engineer with Engineers Surveyors Hawaii. ●**Reginald Kunimitsu** (ME 67) works at the Pearl Harbor Naval Shipyard as an engineer. ●**Gary Link** (EE 68) is retired. ●**Michael Umemoto** (ME 68) is a mechanical engineer at the Pearl Harbor Naval Shipyard. ●**Michael Yamasaki** (CE 68) works for Dames & Moore as a geotechnical engineer associate. ●**Dennis Hanatani** (CE 69) is president of Dennis Hanatani Inc. ●**Daniel Miyasato** (CE 69) works for Sato & Associates Inc.

1970s

●**Melvin Takafuji** (CE 70) is a mechanical engineer at Pearl Harbor Naval Shipyard. ●**Dennis Okazaki** (CE 73) is vice president of Koga Engineering & Construction Inc. ●**Carl Shimazu** (CE 73) is a program manager with the Pacific Division of the Naval Facilities Engineering Command.

●**Rodney Nohara** (CE 74) is president of Jayar Construction. ●**Ken Ferreira** (EE 74) works at the Navy Public Works Center as an electrical engineer. ●**Bert Toba** (CE 74) is vice president & manager of Sato & Associates Inc. ●**Art Yoshimura** (EE 74) works for American Savings Bank as a project leader. ●**Wesley Segawa** (CE 75) is a principal with Wesley R. Segawa & Associates Inc. ●**Howard Yoshimura** (CE 75) works for the U.S. Army Corps of Engineers. ●**Glenn Okada** (CE 77) is a civil engineer with the State Department of Accounting & General Services. ●**Wesley Chun** (CE 78) is a principal with Engineering Solutions Inc. ●**Ranold Fujioka Jr.** (CE 78) works at the Navy Public Works Center as a supervisory environmental engineer. ●**Stephen Green** (ME 78) is chief field engineer of water & wastewater utility operations for West Hawaii Utilities. ●**Greg Kim** (CE 78) is a civil engineer with the U.S. Army Corps of Engineers. ●**James Sone** (EE 78) works for GTE Hawaiian Tel as a project designer. ●**Bert Yamamoto** (CE 78) is an engineer with EDP Hawaii. ●**Gerald Ota** (CE 79) is a project manager with the Pacific Division of the Naval Facilities Engineering Command. ●**Jon Young** (CE 79) works for Gentry Homes Ltd. as a construction manager.

1980s

●**Eric Nakagawa** (ME 80) works for Randolph H. Murayama & Associates as a project engineer. ●**Tim Higa** (EE 81) is an associate with Ronald N.S. Ho & Associates. ●**Dickson Ma** (CE 81) is a civil engineer with the U.S. Army Corps of Engineers. ●**Paul Yong** (CE 81) is a vice president at UNOCAL. ●**Malcolm Cortez** (CE 82) is a civil engineer for the Irvine Ranch Water District in Irvine, Calif. He and wife Rumelia have a son named Noah. ●**Brian Kunioka** (CE 83) works for Koga Engineering & Construction Inc. as the chief estimator. ●**Aaron Okí** (EE 83) is acting manager for TRW's Microelectronic Products and Technology Development

ENGINEERING ALUMNI UPDATE

Name _____

Address _____ Phone Bus () _____

City _____ State _____ Zip Code _____ Phone Res () _____

Employer/Company _____

Job Title/Description _____

Year Graduated (BS) _____ Major (CE, EE, ME?) _____ Graduate degrees _____

News about children, marriages, promotions, hobbies, travel, etc.

Please share what you are doing with your classmates. Send your news to : Newsletter Editor, College of Engineering, 2540 Dole Street, Holmes Hall 240, Honolulu, HI 96822.

If you want to join the Engineering Alumni Association or pay your 2000 dues, you may also use this form. Annual membership rate is \$10/year. Annual membership rates for the University of Hawai'i Alumni Association are as follows: OAHU: single - \$50, couple - \$60. NEIGHBOR ISLANDS: single - \$25, couple - \$45. MAINLAND/INTERNATIONAL: single - \$25, couple - \$35. Rates for single and couple life members are \$750 and \$1,000, respectively. There is a special Life Membership rate of \$175 for alumni who graduated in or before 1949. \$10 of whatever category you choose will go to the Engineering Association for dual membership. Contact any of the officers listed on the last page of this newsletter for further information.

continued on back cover

Alumni News

continued from page 15

Department. ●**Barry Usagawa** (CE 83) works for the Board of Water Supply and is in charge of the Board's long range planning. ●**David Booth** (ME 84) works at the Pearl Harbor Naval Shipyard as a nuclear engineer. ●**Ayman El-Swiayf** (ME 84) is a CADD/GIS manager at the Navy Public Works Center in Yokosuka, Japan. ●**Waylen Wataru** (EE 84) works for Spawar Systems Activity as an electronics engineer. ●**Frank Yamada** (EE 84) works for TRW Inc. ●**Darryl Yokoyama** (CE 84) is a civil engineer with the Navy Public Works Center. ●**Norman Kaneshige** (CE 85) is a civil engineer with the U.S. Army Corps of Engineers. ●**Keith Uemura** (CE 85) works for Paren Inc. dba Park Engineering as a project manager. ●**Carl Wakeland** (EE 86) is a senior design engineer with E-mu Systems. ●**Russell Arakaki** (CE 87) is a civil engineer with Paren Inc. dba Park Engineering. ●**Den-nis Toyama** (CE 87) works for the City & County of Honolulu as a civil engineer in the Department of Public Works. ●**Darwin Uesato** (ME 87) works at the Pearl Harbor Naval Shipyard as a computer specialist. ●**Elton Saito** (CE 88) is an environmental engineer with

the Navy Public Works Center at the Pearl Harbor. ●**Robyn Tabata** (ME 88) works for Randolph H. Murayama & Associates as a project engineer. ●**Rick Wagatsuma** (CE 88) is president of RW Supply. ●**Benjamin Simao** (EE 89) is an engineer with the U.S. Army Corps of Engineers. ●**John Tamanaha** (EE 89) works at the Pearl Harbor Naval Shipyard as a nuclear engineer. ●**Keith Terada** (CE 89) is a civil engineer with the U.S. Navy Public Works Center at the Pearl Harbor.

1990s

●**Henry Kennedy** (CE 90) works for the State Department of Transportation as a project manager. ●**Dina (Ueoka) Lau** (CE 90) is a civil engineer with the State Department of Transportation. ●**Terilyn Shibata** (CE 90) works for Paren Inc. dba Park Engineering as a project engineer. ●**Teri Moritomo** (ME 91) is an estimator with the Hawaiian Dredging Construction Company. ●**Timothy Trang** (CE 91) works

Upcoming EAAUH Event

The EAAUH is planning a tour to the Pacific Missile Range Facility on Kauai in early Spring 2000.

For more information about this event, please call 956-2286.

for the City & County of Honolulu's Department of Public Works. ●**Xiaocun Xu** (EE 91) is a senior technical analyst with CommercialWare Inc. He married Victoria Hsu last May and spent three weeks in Turkey for honeymoon. He holds a master's degree in electrical engineering from the University of Illinois at Champaign-Urbana. ●**Tony Lau** (CE 92) is a staff civil engineer with Hawaii Pacific Engineers. ●**Robert Morelos-Zaragoza** (EE 92) works for LSI Logic Corporation as a staff engineer. ●**Corey Shibata** (CE 92) works for the State Department of Health as an environmental engineer. ●**Reid Tokuhara** (CE 92) works for the State Department of Transportation as a civil engineer in the Highways Division.

ENGINEERING ALUMNI ASSOCIATION OFFICERS

President Diane Kodama
M & E Pacific
1001 Bishop St., Pauahi 500
Honolulu, HI 96813
Tel. 529-7252, Fax. 524-0246

Vice President Terilyn Shibata
Park Engineering
567 S. King St., Suite 300
Honolulu, HI 96813
Tel. 531-1676, Fax. 536-5996

Secretary Kely Ota
Board of Water Supply
630 S. Beretania St.
Honolulu, HI 96819
Tel. 527-5229, Fax. 527-6195

Treasurer Jamie Hikiji
M & E Pacific
1001 Bishop St., Pauahi 500
Honolulu, HI 96813
Tel. 529-7249, Fax. 524-0246

UHAA Representative Shawn Tasaka
Hawaiian Dredging Construction Co.
614 Kapahulu Av.
Honolulu, HI 96815
Tel. 735-3211, Fax. 735-7416

Director Lloyd Lee
County of Maui
Department of Public Works
200 High St.
Wailuku, HI 96793
Tel. 243-7745, Fax. 243-7975

Director Michael Magaoy
A-1 A-Lectrician Inc.
2849 Kaihikapu St.
Honolulu, HI 96819
Tel. 839-2771

Director Randy Murayama
R. Murayama & Associates
1267 Young St.
Honolulu, HI 96814
Tel. 593-9360, Fax. 591-9362

Director Wayne Nakamura
KAI Hawaii, Inc.
705 S. King St., Suite 106
Honolulu, HI 96813
Tel. 533-2210, Fax. 533-2686



UNIVERSITY OF HAWAII AT MANOA
COLLEGE OF ENGINEERING
2540 Dole Street • Holmes Hall 240
Honolulu, HI 96822

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