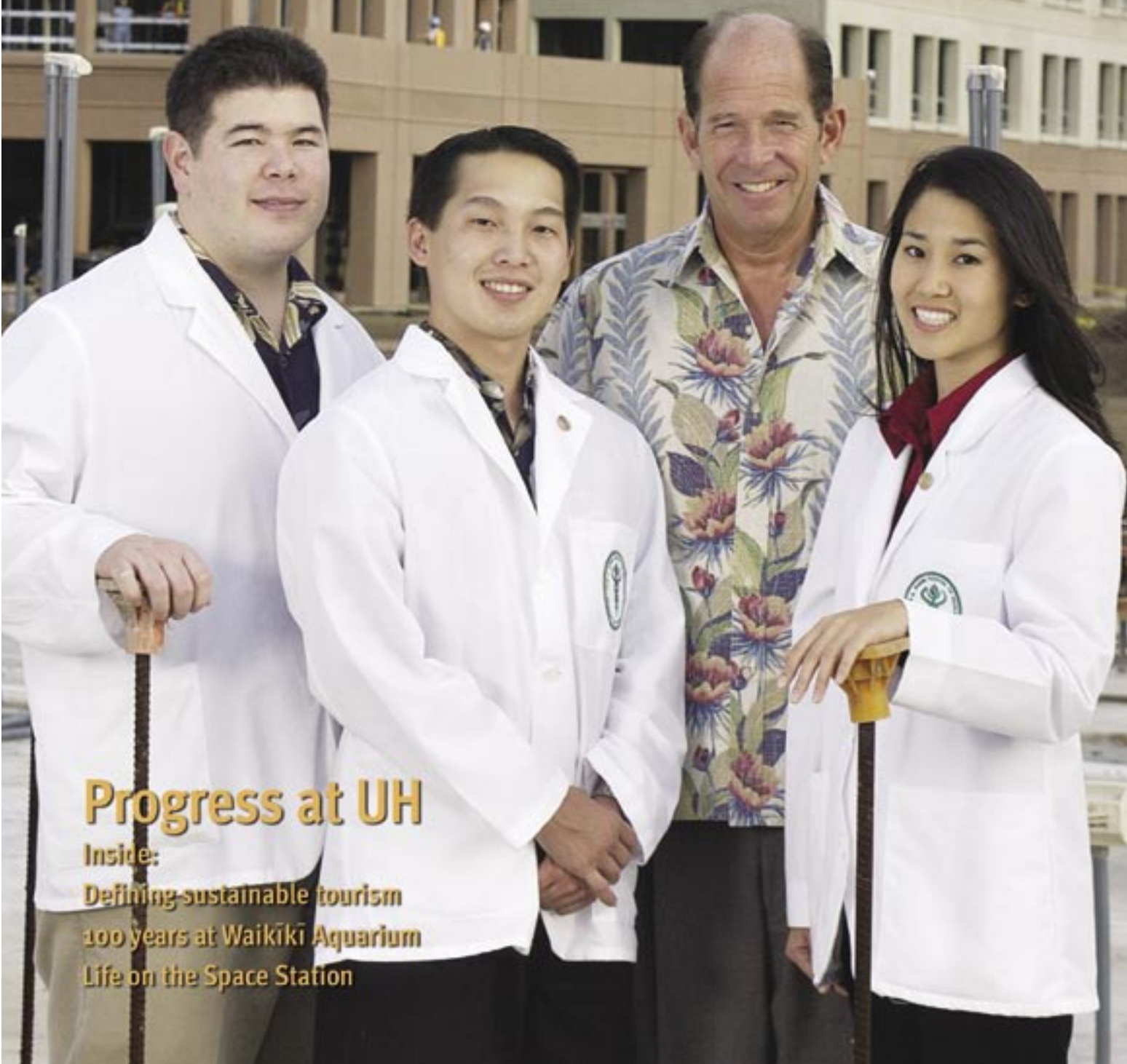


mālamalama

THE LIGHT OF KNOWLEDGE

The magazine of the University of Hawai'i System

Volume 29, Number 1 February 2004



Progress at UH

Inside:


Defining sustainable tourism

100 years at Waikīkī Aquarium

Life on the Space Station

Step into your future...

with a University of Hawai'i MBA, MAcc or MHRM degree

A man in a purple patterned shirt and light blue pants, carrying a briefcase, walks alongside two women in business attire on a rooftop. They are looking out over a sprawling cityscape with numerous skyscrapers and green spaces, with a body of water and distant hills visible in the background.

Discover how easy it is to be a student again. Apply online or call 956-8266 for information. Now accepting applications for Fall 2004.

www.cba.hawaii.edu

- ✓ *Hawai'i's only AACSB accredited school*
- ✓ *Ranked in "Top 25" schools for international business*

UNIVERSITY OF HAWAII AT MĀNOA
COLLEGE OF BUSINESS

Executive Editor

Paul B. Costello

Editor

Cheryl Ernst

Art Director

Rowen Tabusa (BFA '79 Mānoa)

Photographer

Bob Chinn

Associate Editor

Tracy Matsushima (BA '90 Mānoa)

Contributing Alumni Editors

Emily Fay

Maureen Field

University of Hawai'i President

Evan S. Dobelle

Board of Regents

Byron W. Bender

James J. C. Haynes II (BBA '65
Mānoa)

Ted H. S. Hong (BA '81, JD '83
Mānoa)

Trent K. Kakuda (BA '00 Mānoa)

Charles K. Kawakami

Duane K. Kurisu (BBA '76, MBA '80
Mānoa)

Kitty Lagareta

Patricia Y. Lee (JD '79 Mānoa)

Walter Nunokawa

Alvin A. Tanaka (BBA '66, MBA '68
Mānoa)

Jane B. Tatibouet

Myron A. Yamasato (BBA '73
Mānoa)

Mālamalama is published three times a year by External Affairs and University Relations at the University of Hawai'i, Bachman 109H, 2444 Dole St., Honolulu, HI 96822. UH is an equal opportunity/affirmative action institution. This publication is available in alternate form for people with print disabilities.

Address correction? Contact UH Foundation—*Mālamalama*, P. O. Box 11270, Honolulu, HI 96828-0270; phone 808 956-8829; or e-mail addressupdate@uhf.hawaii.edu

Online subscription? To receive the magazine electronically, e-mail ur@hawaii.edu with "subscribe" in the subject line. Please include your name and address in the message.

Comment or story idea? Contact Cheryl Ernst, 1627 Bachman Place BA2, Honolulu, HI 96822 or e-mail ur@hawaii.edu.

Want to advertise? For information, call 808 956-8856 or e-mail ur@hawaii.edu.

Neutrinos and faculty boost the Hawai'i economy

The University of Hawai'i System is more than an academic institution. It's a key economic engine for the state of Hawai'i. Each week, a multitude of



new grants, endowments or federally funded projects are announced throughout the UH System. A recent announcement is telling. NASA confirmed that Mānoa Associate Professor of Physics and Astronomy Peter Gorham is in the final stages of securing a five-year Explorer Program Missions grant worth approximately \$35 million. When completed, this grant would become the largest single allocation of research dollars ever received by UH.

Professor Gorham's high energy neutrino astronomy research is clearly a mainstream interest for NASA. His ANITA project (Antarctic Impulsive Transient Antenna) views the Antarctic ice sheet from horizon to horizon. A sophisticated array of antennas "listens" for sharp bursts of radio waves (what amounts to mini bolts of lightning) emitted by cosmic high energy neutrinos or subatomic particles that only rarely interact. This kind of work moves us closer to understanding the nature of the building blocks of our universe.

A respected faculty member, Peter Gorham, right, is also a UH alumnus. Arriving from California more than two decades ago aboard a 44-foot sailboat, he was attracted by the university's groundbreaking neutrino experiments and Hawai'i's surfer-friendly climate. His graduate degree from UH paved the way for his pioneering efforts in neutrino research and gamma-ray astrophysics on the mainland. Hawai'i was never far from his heart, however, and he returned in 2001 as a teaching faculty member at Mānoa. He says returning to UH was an opportunity to give something back to the institution that helped shape his career while exploring research interests that launched the ANITA project.



Besides the direct dollars such a research program generates, Peter sees a whole range of less tangible economic benefits. Undergraduate students hired as technicians gain exposure and experience valued by employers who would otherwise look outside the state. Technologies are developed that can be licensed to local companies. University infrastructure, such as a test chamber he is developing for antenna calibration, can be used for wireless technology testing by the community outside of UH.

Dr. Gorham feels an institution is as important as the projects and people involved, and I couldn't agree more. Research and resources invested in Hawai'i through UH are substantial and continue to grow every year because the people at the heart of this institution—individuals like Peter Gorham—make the difference.

Paul B. Costello

CONTENTS

FEATURES

Different Paths9

Three community college faculty members find their way to teaching

Progress Report..... 10

President Evan Dobelle discusses university accomplishments and goals

◀ Cruising..... 12

Undergraduates get a first-hand look at what life is like for ocean scientists

◀ Sustainable Tourism 14

Can a travel destination retain its environmental, social and cultural integrity? UH helps policy makers find answers

Global Perspective..... 16

Scholars and researchers from all 10 campuses do work around the world

Aquarium Centennial 18

Waikīkī Aquarium, the country's third such facility, turns 100

◀ Space Station20

Former astronomy faculty member describes life aboard the International Space Station

DEPARTMENTS

Campus News3

Research and Scholarship6

◀ Alumni..... 23

Foundation30

Sports 31

Mālamalama.....32

On the cover: UH President Evan Dobelle with School of Medicine class presidents, from left, Greg Sakamoto (BS in biology '99 Mānoa), third year; Ronald Kuroda (BA in speech '99 Mānoa), second year, and JulieAnn Iinuma, (BS speech pathology and audiology '01 Mānoa), first year, at the Kaka'ako site of the new medical school. Other UH alumni from various construction firms working on the project can be seen in the background.

SUBSCRIBE

Help us offset rising mailing costs with a voluntary subscription to *Mālamalama* magazine. Suggested donation, \$10. Mail to Mālamalama, 1627 Bachman Pl. BA2, Honolulu, HI 96822. Or skip postal delivery and e-subscribe to the online magazine. Send e-mail to ur@hawaii.edu. Put "subscribe" in the subject line and include your name and address in the e-mail.



Guess who is reading Mālamalama?!

More than 162,000 college-educated people with strong ties to Hawai'i.

Advertising to this audience is more affordable than you might think.

Find out more
www.hawaii.edu/malamalama
ur@hawaii.edu
(808)956-8856

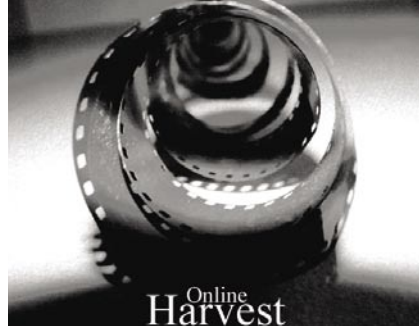


9-11 memorial yields culinary resources

More than 800 books and videotapes have been provided for use by UH community college culinary students system-wide in memory of an acclaimed pastry chef who died in the Sept. 11, 2001, World Trade Center terrorist attack. Heather Ho, a former Hawai'i resident, was pastry chef at Windows on the World. The gift in her honor, valued at more than \$30,000, was made by the Honolulu chapter of Les Dames d'Escoffier, a professional organization of women in culinary-related fields. Examining the books provided for Leeward's culinary collection are, from left, Professor of Food Service Fern Tomisato and Librarians Dave Coleman and Diane Sakai.

Youth wellness program expands

A free program that promotes a holistic approach to prevention and wellness will be able to serve more Waimānalo children, thanks to a five-year, \$1.5 million federal grant to the John A. Burns School of Medicine's Native Hawaiian Center of Excellence. Hui Mālama o ke Kai provides services to more than 40 5th and 6th graders after school, when young adolescents are most at risk for exposure to drugs, alcohol and violence. The community-initiated program uses Native Hawaiian values to foster mental, physical and spiritual growth.



Leeward students publish online

Leeward CC's popular and award-winning student literary and arts magazine, *Harvest*, is now available online. Produced by students in the college's magazine editing and production class, the publication includes poetry, essays, photography, paintings and digital media. View the current issue at <http://emedia.leeward.hawaii.edu/harvest/>.

UH joins statewide Hawai'i Arts Season

The UH System has joined other cultural and arts organizations in the state's promotion of the first Hawai'i Arts Season, Feb. 27–May 2. The goal is to consolidate existing arts and cultural events within a defined time period for marketing to visitors looking for experiences beyond sun and surf. UH-sponsored events, from Leeward CC's *Dance Quake* to Kennedy Theatre's latest kabuki production, are included in the arts season calendar found at www.gohawaii.com/arts. The effort is being backed by Hawai'i Tourism Authority and Hawai'i Visitors and Convention Bureau. Mānoa's College of Arts and Humanities and UH External Affairs and University Relations spearheaded UH involvement.

Sustainable exchange involves Costa Rica

In its first such agreement in Latin America, UH has joined Costa Rica's Earth University in a partnership focused on entrepreneurship and agricultural sustainability. Maui CC will host Earth University interns in Hawai'i and extend exchange opportunities to UH students system-wide. The College of Tropical Agriculture and Human Resources at Mānoa will foster community interaction through outreach programs with the support of UH alumnus David Cole, president and CEO of Maui Land and Pineapple Co.



Spring commencement schedule

Ceremonies are scheduled on the following dates. For details, check with the campus or look for an announcement at www.hawaii.edu in early May.

Mānoa	May 16
Hilo	May 15
West O'ahu	May 15 (tentative)
Hawai'i	May 14
Kaua'i	May 14
Kapi'olani	May 13
Leeward	May 14
Honolulu	May 14
Maui	May 16
Windward	May 16 (tentative)
UH Center in West Hawai'i	May 15

Conflict resolution training offered in Thailand

Peace centers in Thailand and Hawai'i have joined forces to train Thai military, police, government, education and community leaders in conflict resolution techniques. Vanchai Vatanasapt, of the Center for Peace Promotion at Thailand's King Prajadhipok's Institute, visited Hawai'i in November to observe school-based peer mediation programs and talk about the joint effort with the Program on Conflict Resolution at Mānoa's Matsunaga Institute for Peace.

Major grants enhance education at home and abroad

- * Nearly \$2 million in federal funds will help UH West O'ahu expand academic and student **services for underrepresented populations**, especially Native Hawaiian and Filipino students. Plans include pre-college workshops, career development activities and expanded distance education offerings.
- * Native Hawaiian high school students on six islands will be encouraged to pursue **natural and environmental studies** and provided the necessary math and science preparation under a three-year federal grant of more than \$2 million to be administered by UH Hilo's Nā Pua No'eau program.
- * The Center of Disability Studies in Mānoa's College of Education received \$800,000 in federal funds to train teachers so Hawai'i school **children with disabilities** can spend more time in the regular classroom.
- * Mānoa's School of Nursing and Dental Hygiene received \$1 million in federal funds to enhance its **primary healthcare nurse practitioner** track.
- * A \$420,000 Atlantic Philanthropies grant will build Vietnam's English language capacity through a UH Inter-University Center in Hanoi, specialized workshops in Hawai'i and graduate scholarships for Vietnamese students to pursue Mānoa's certificate in **second language studies**.

It's a wash

How important is hand washing? Twenty seconds with soap and hot water can reduce the risk of infections by half and gastrointestinal illness by 80 percent. So Mānoa's College of Tropical Agriculture and Human Resources, together with two state agencies and five trade associations, has created a sticker to remind food handlers (in 14 languages) to "wash your hands with soap before handling food and after using the toilet." The sticker is available free to restaurants, schools, wholesalers, farms and other food-related establishments. Visit any Department of Health Sanitation Branch office or call 808 586-8000.

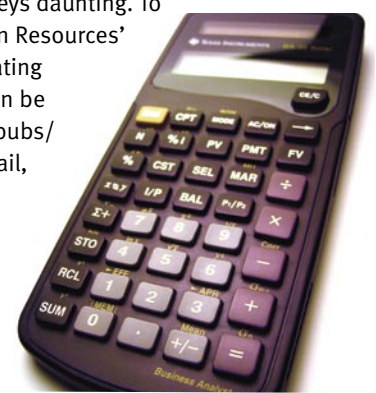


West O'ahu hosts Aussie colleagues

A November symposium involving faculty from UH West O'ahu and the University of Western Sydney College of Law and Business set the stage for wide-ranging collaboration between the two institutions. Presentations on topics ranging from pay equity to sick building syndrome suggest areas for future joint research and faculty/student exchanges.

How to: Use a financial calculator

A financial calculator is a valuable tool in figuring out the amount of installment loan payments, length of time needed to pay down a revolving charge account or impact of different down payments on monthly payments and total interest. But many people find all those coded keys daunting. To help, the Mānoa College of Tropical Agriculture and Human Resources' family economics specialist has created "Financial Calculating for Home and Business." The free demonstration guide can be downloaded as a pdf from www.ctahr.hawaii.edu/oc/freepubs/pdf/FCL-2.pdf or ordered by phone, 808 956-7046, or e-mail, ctahrpub@hawaii.edu.





College class offers youngsters a glance at dance

As part of a dance education outreach program, Mānoa students spent six weeks teaching creative movement to elementary students like those at Star of the Sea Elementary, above. Working with classroom teachers, the UH students incorporated state and national curriculum standards in literature, science and movement to create performances that delighted young performers and their parents. The program is part of a series of dance classes focused on activities for youngsters, elders and disabled individuals. Some of the UH students will join Assistant Professor Kristi Burns in describing the experience at the 2004 Governor's Conference on Arts Education, scheduled March 6 at Windward CC.

Lease expands Moloka'i presence

Maui CC will use 28 acres within the Moloka'i Agricultural Park for classrooms, offices, a greenhouse and storage facilities under a lease with the state approved in November. The college's Moloka'i Agricultural Program offers an array of credit and noncredit courses for island residents. Farmland will also be used by the Maui program and for UH agricultural research and extension activities.

Senior secretary retires

The University of Hawai'i has been an integral part of Harriet Yamamoto's life. She found her career, husband Richard and an education for her children on the Mānoa campus. The McKinley High School graduate joined the UH staff at age 19 as the campus' second traffic clerk and served as executive secretary to the administration's second-in-command. She was believed to be the university's senior-most staff member at the time of her retirement from the Mānoa chancellor's office at the end of 2003. The campus has changed a great deal in her more than four decades—including construction of the Stan Sheriff Center, where she works out every morning and avidly cheers the Mānoa volleyball teams—but the historical problem of under-funding persists, Yamamoto observes.



Big Island writing conference

Hawai'i CC is hosting The Heart and Soul of Writing: the Second Big Island Writers Institute on Feb. 14 in conjunction with the Hawai'i Island Writers Association. The popular institute features workshops with master writers, including UH Hilo's Shepherd Bliss, who will lead a workshop on the oral tradition and performing poetry and prose. Contact 808 974-7531 or bergknut@hawaii.edu for information.

Windward Web site wins national award

An interactive Web site on surfing created by participants in Windward CC's Upward Bound Program received a gold medal and was named Best of Contest in the TRIO ThinkQuest national competition. The site, called Wipe Out and located at <http://dev.triothinkquest.org/TTQ03040/>, features surfing history and personalities as well as tips and a guide to Hawai'i surf spots. It was developed by high school seniors Chantal Aquino from Kailua and Carlie Salomons from Kahuku. Coach Michelle Hite (AA '97 Windward; BA '00 West O'ahu), an Upward Bound staff member, credits Windward with teaching her everything she knows about computers. The program helps students acquire skills and motivation needed to succeed in college. See <http://upwardbound.wcc.hawaii.edu>.

**First image:
Galaxy NGC 891
in the Andromeda
constellation**

Team teaches old telescope new tricks

The new 16-megapixel infrared camera mounted on UH's 2.2 meter telescope makes the 30-year-old instrument the best infrared imager in the world. The camera was developed by Institute for Astronomy staff with Honolulu business GL Scientific and Rockwell Scientific Company under a \$7 million NASA grant. It provides 16 times the sky coverage and much higher sensitivity than previous models. Similar cameras will boost the imaging capability of larger telescopes on Mauna Kea and in Chile, and will be incorporated on NASA's James Webb Space Telescope. The project, coordinated by IfA's Donald Hall, has been nominated for NASA's highest technical award.

Partnerships bring resources

- * UH Hilo has signed a five-year agreement with the U.S. Geological Survey's Pacific Island Ecosystems Research Center to create a Hawai'i Cooperative Studies Unit on the Big Island campus. The unit will administer cooperative research, educational development and technological collaborations with a focus on Hawai'i, other Pacific Islands and similar ecological areas.
- * The International Pacific Research Center at Mānoa received an additional \$3 million from the Japan Marine Science and Technology Center to continue work on how ocean, land and atmosphere interactions cause climate change.

Memorial rededicated for lost researchers

A memorial garden on the Diamond Head side of Mānoa's Hawai'i Institute of Geophysics building has been rededicated in honor of UH scientists Michael Allen, Robert Harvey and Gary Niemeyer, who were lost at sea with seven other people aboard the research vessel *Holoholo* in December 1978. Gold trees that had been planted in their memory were damaged by construction of the POST building next door. With funds from friends and colleagues and donated labor by Mānoa groundskeepers, a new garden was created for the 25th anniversary of the tragedy, and families of the scientists invited to a formal rededication in January.



Oceanographer Joyce Miller places a lei

Explaining bubbles in the crust

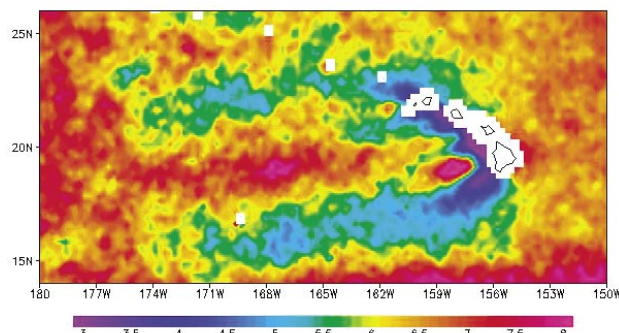
Steam rising through lava in underwater eruptions creates bubble-like holes in the seafloor, some of which measure up to 82 feet deep, according to UH research reported in the Nov. 6 issue of *Nature*. The discovery, by a nationwide group of scientists including Mānoa graduate student Jennifer Engels and her advisor, Margo Edwards, suggests vapor formation plays an important role in creating the collapse features that characterize much of the upper oceanic crust. Analyzing seafloor samples and mapping data, Engels found that bubbles of steam may interact chemically and physically with lava at depths of 2,500 meters or more—providing a new piece in scientists' picture of volcanic processes and oceanic crustal formation.

New subatomic particle discovered

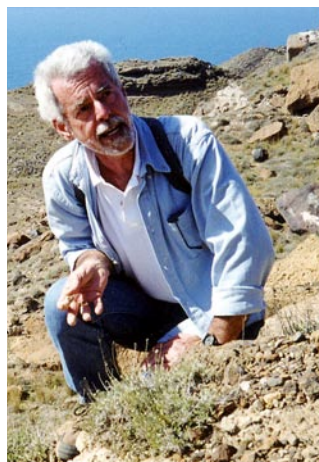
Mānoa's High Energy Physics Group has discovered a new and unusual elementary particle, dubbed X(3872), that may be the first example of a new type of subatomic particle. Using Japan's KEKB accelerator and Belle Detector, UH Professor of Physics Stephen Olsen and a Korean colleague observed peculiar behavior in the short-lived particle, which weighs about the same as a single atom of helium. X(3872) has unique decay patterns and appears to be the first in which more ordinary particles stick together the way atoms do to form molecules, the team reported in *Physical Review Letters*. The U.S. Department of Energy has renewed the High Energy Physics Group's grant of nearly \$1.6 million a year for three more years.

Hawai'i creates a big wake

From space, the Hawaiian Islands are barely visible. But data from satellite-based microwave radar has scientists taking a closer look. The islands' high mountain topography over a four-degree latitudinal spread blocks trade winds, creating an air-sea wake that stretches 1,600 miles to the west and drives a counter current of warm water from Asia. The wake defies aerodynamic theory and far exceeds any others so far observed. Mānoa meteorologist Shang-Ping Xie, whose international team discovered the anomaly, says the wake illustrates the strong interaction between ocean and atmosphere and must be considered in climate prediction models. A fuller discussion appears on NASA's Earth Observatory page, <http://earthobservatory.nasa.gov/Study/Wake/>



Volcano brought civilization's downfall



McCoy seeks evidence of tsunami, earthquake and ash fall related to a late Bronze Age eruption in the Aegean

Indonesia—whose ash blocked sunlight, causing failed harvests in the United States, Europe and Russia. McCoy and colleagues have revived the theory that the Thera eruption contributed to the demise of the enlightened Minoan civilization. The theory lost favor when ash discovered in Greenland ice samples dated the explosion 150 years before the Minoans' collapse. But scientists suggest that long-term effects on agriculture, maritime trade and social structure may have doomed Crete, which fell to Mycenaean Greek invaders in 1450 B.C.

The eruption of the Thera volcano roughly 3,500 years ago was much more powerful than previously thought, Windward CC Associate Professor of Geology Floyd McCoy believes. McCoy continued four decades of sleuthing on the volcano and its impact during summer research in the Aegean. Geologic evidence indicates that 50-foot waves generated by the eruption smashed ports and destroyed fleets. Ashfall, 10 feet deep at Anafi 20 miles away, was widespread, traced to the Greek mainland, bottom of the Black Sea and the Nile delta. Tree ring analysis in Turkey suggests climate change occurred in the years immediately after the eruption.

Collectively, the evidence supports a Volcanic Explosivity Index of 7.0, 10 times more powerful than the deadly Krakatau eruption of 1883 and matched only by the 1816 eruption of Tambora in



Modern Santorini island rings Thera's caldera



Tea time in Hawai'i?

Move over coffee and macadamia nuts. Hawai'i's next specialty crop could be *Camellia sinensis*—tea. Three-year-old test plantings of the venerable beverage plant in Volcano and Mealani show promise for productivity and quality. The research is being done by Mānoa's College of Tropical Agriculture and Human Resources and Hilo's College of Agriculture, Forestry and Natural Resource Management with the U.S. Department of Agriculture. For the CTAHR publication "Small-scale Tea Growing and Processing in Hawai'i," visit www2.ctahr.hawaii.edu/oc/forsale/teafler.pdf or call 808 956-7036.

The economic tourist

Does tourism offer a magic answer for economic development or constitute a looming threat to human and natural environments? People interested in the debate should cruise through Mānoa economist James Mak's thought-provoking and very readable new book, *Tourism and the Economy: Understanding the Economics of Tourism*, from University of Hawai'i Press. Mak examines both the benefits and pitfalls of tourism. One thing is for certain, he observes: Tourism is one of the fastest growing industries in the world, representing 10 percent of global gross domestic product and employing 8 out of every 100 people. The book contains a compendium of fascinating facts about tourism around the world and provides a glimpse at the future of tourism in the post 9-11 world.



Illustration by
Kelly Hironaka

Lessons from the geckos

Like some other lizards, the *Lepidodactylus lugubris* species of geckos can create a duplicate set of chromosomes and produce eggs without fertilization by males. According to Hilo psychologist Susan Brown, the resulting clones appear to be more resistant to disease than species that reproduce by sexual means.

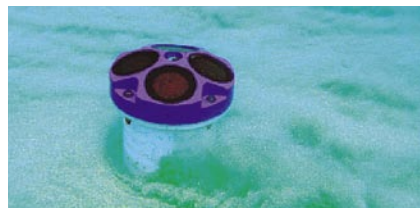
In examining why this is so, Brown has observed protective behaviors. Unisex geckos lick their eyes more often (most geckos do not have eyelids), avoid fresh feces and avoid other species.

So why do unisex species decline when bisexuals move in? It's not male dominance—*L. lugubris* are exceedingly aggressive toward larger males of bisexual species. Nor is it indirect competition for food since there's plenty of insect meals to go around. Their preference for solitude doesn't appear to be a factor, but in experiments with her colony of 30–50 geckos, Brown has discovered that pheromones may play a role. Unisex geckos become less aggressive and lay fewer eggs when exposed to the chemicals, even when males aren't actually present.

Brown's research is mostly based on curiosity about a species little studied when she began her work two decades ago. But it could contribute to questions related to the effect of chemicals on mammalian behavior, role of genetics in disease resistance and the evolutionary advantage of sex. While clones afford greater protection against specific diseases, introduction of a new disease agent could wipe out the entire population, she observes. Sexual reproduction creates variations in individuals' genetic code that could afford some protection against new disease threats.

A wave of research

Coral is rough enough to warrant the respect of boaters and surfers. But ocean engineers need a more specific gauge if they are to accurately understand the dynamics of waves that flow over the reef. A Mānoa team led by Assistant Professor of Ocean and Resources Engineering Geno Pawlak is developing detailed measures of roughness through surveys using echo sounder, acoustic current profiler and GPS readings.



Acoustic Doppler current profiler on sandy seafloor

In another wave project, geochemist Frank Sansone and oceanographer Mark Merrifield will use dye and fiber optic fluorometers to quantify chemical exchanges between sediments and the water column as waves move over the sandy seafloor.

Cancer mortality rates declining in Hawai'i

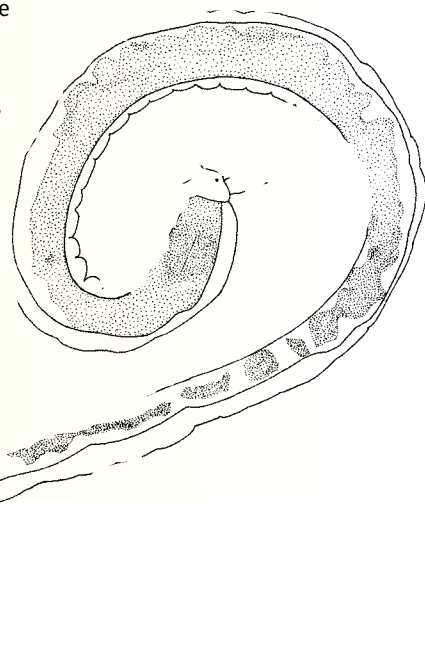
Hawai'i's death rate from cancer has fallen almost 20 percent in the last two decades, according to a new report released by UH's Cancer Research Center of Hawai'i in conjunction with the American Cancer Society and state Department of Health. According to data collected by the center's Hawai'i Tumor Registry, the rates of cancer deaths decreased 17 percent among men and 19 percent among women in 1995–2000 compared to 1975–79. However, with the state's aging population, the number of individuals diagnosed with and dying from cancer increases each year.

While Hawai'i has low rates of cancer incidence and mortality overall compared to other states, certain ethnic groups here have the highest incidence and mortality rates for major cancers—Japanese men, colorectal; Caucasian men, prostate; Hawaiian women, breast; Hawaiian men and women, lung—and Filipino men have increasing rates of lung and colorectal cancer.

New sea worm species reported

Each day, around 1,000 people tromp in and out of the water at Hanauma Bay, intent on viewing the colorful fish. Literally underfoot, grasping tight to grains of sand, a new species of saccocirrids has been identified. The tiny polychaete sea worm and two other new species, found in coarse sands of Māmala Bay, Mōkapu and Honolulu Harbor and deeper water off Wai'anae, Waimānalo and Hilo, are described in the October issue of *Pacific Science* journal. Smaller than polychaetes found elsewhere, the hardy Hawaiian worms appear to thrive in high water motion and disturbed habitats, according to researchers in Mānoa's Water Resources Research Center and Sea Grant Extension Program.

***Saccocirrus alanhongi* is named for City and County of Honolulu employee Alan Hong, lifelong caretaker of Hanauma Bay**



Reporting by student writers
Ari Katz, Mānoa, and
Theresa Pitts, Windward

The road not taken

Few children list college professor as the job they want when they grow up. So it shouldn't be surprising that gifted teachers started out on different tracks. Here's a quick look at three who inspire students in UH community colleges.

On stage with Ben Moffat

After earning a bachelor's degree in English from New York's Vassar College, Ben Moffat joined Mānoa's MFA program in theater, attracted by its expertise in Asian theater, puppetry and masks. "I



just wanted to work in theater because I loved it so much. I knew that if someone had to make a living at it, it might as well be me," he says. He still performs, with stilts and masks in a group called Monkey and the Waterfall that is developing *Still on My Back III*, for performance in the summer. His fascination with masks fills his home as well; he has more than 200 that he describes as intriguing and mystical. A near drowning while rafting the Colorado river taught him the fragility of life, so he pushes students at Windward CC to take risks, daring them to perform in front of each other. "Sometimes extreme experiences are our best teachers," he says. "I've watched my students grow and become more confident after taking my course. Theater gives people a sense of possibility in the world. It's all about taking the risk."

In tune with Robert Wehrman

The first student to receive a doctorate in music from UH Mānoa intended to be a full-time composer.

His mother recalls his fascination with music from a tender age. "She says common nursery rhymes never



satisfied me, and I would always make up my own," Maui CC Instructor of Music Robert Wehrman recalls. Over the years he mastered several instruments, but it was the synthesizer that spoke to his creative spirit. Wehrman became a national expert on MIDI (musical instrument digital interface) and digital music composition, wrote for *Keyboard Magazine* and worked for electronic musical instrument manufacturers. Eventually, he recognized his affinity for showing people how to do things. "I chose music, but teaching chose me," he says. He's now an advocate for arts education. "The humanities helps the average student relate to people and makes them more of a whole person," he explains. Wehrman's radio show, *Mirror of the New*, airs Sundays at 8 p.m. on Hawai'i Public Radio, 88.1 KHPR in Honolulu, 90.7 KKUA in Wailuku and 91.1 KANO in Hilo.

Behind TV with Robert Hochstein

The hard, dangerous life of coal miners and steelworkers held no appeal for Pennsylvania native Robert Hochstein.

A high school stint as a radio announcer led to a stage career that paid for his col-



lege education. Hochstein worked in TV as news anchor and in production jobs that included program director for Dick Clark Productions. It was financially rewarding, but Hochstein says he felt "an enormous need to give something back." So for the past 15 years, he has developed and taught in Leeward CC's television production program, earning the UH Regents' Medal for Excellence in Teaching, the state's Outstanding Postsecondary Vocational Education Program award and a National Institute for Staff and Organizational Development Excellence Award. Long an advocate for creating a film school at UH, he hopes to collaborate on the proposed system-wide Academy for Creative Media. But he won't neglect the Leeward students. "I couldn't trust this program in the hands of anybody else. I mean, I literally gave birth to it," he says.

Changes Bring Progress



Research and training dollars are up 53 percent over two years ago

Changes are clearly visible in the third year since Evan Dobelle became president of the UH System. In Kaka'ako, a new home for the John A. Burns School of Medicine's teaching and research center is scheduled to open in fall 2004. Long delayed renovations and capital improvements totaling \$59 million in fiscal 2004 continue on UH campuses at Hilo, Maui and Windward O'ahu. Historic Hawai'i Hall has been reconstructed at Mānoa, and renovation is planned at Frear Hall. For the first time in the university's history, UH campuses are organized to function as a cohesive whole, sharing enrollment and financial aid systems and collaborating on strategic planning. As a result, UH received the first ever accreditation review of a university system by the Western Association of Schools and Colleges and positive campus reviews. UH enrollment rose in fall 2001 for the first time since the mid-1990s and has steadily increased to more than 50,000 credit and 29,000 non-credit students. The university received \$324 million in contracts and grants during fiscal year 2003, a 53 percent increase over fiscal 2001. A restructuring of UH Foundation and Alumni Relations offices are producing strong results. *Mālamalama* discussed these developments with President Dobelle.

***Mālamalama:* How did the process for change begin?**

Dobelle: Year one was about reinvigorating the environment throughout the system and getting a team in place. The UH community wanted and needed a strategic plan that spoke to its core values and potential. Reorganization of the system was critical to encourage new solutions to long standing issues; it reflected goals the university community specified through the strategic planning process. We simply followed through on the highest priorities enunciated by the front line—faculty and students.

What is different in the reorganization?

Most importantly, students are better served. That is key. In addition, communication and coordination across the system is enhanced. Each community college is an independent campus, led by a chancellor who reports directly to the president. The Council of Chancellors—the leaders of Mānoa, Hilo, West O'ahu and the seven two-year colleges—meets monthly to coordinate the resources of the entire system. There are also regular meetings with the faculty and student leadership of all 10 campuses.

I'm a great believer in accountability, and the reorganization has created clear lines of responsibility. The vice president for academic affairs oversees all issues concerning instruction, with a senior colleague responsible for all non-academic areas. Other senior system individuals are accountable in the critical areas of research and international education. Mānoa now has its own chancellor to focus on specific campus issues as well as work closely with the other chancellors to ensure the best educational opportunities for all our students. Long term budget planning now stems from agreed-upon priorities.

For change to take hold, it must reflect the needs of a community and come from that community. I'm so proud of the many students and faculty members who participated in the process of change.

Which accomplishments make you the most proud?

I'm gratified when I hear from students, faculty, legislators and taxpayers that they see changes that help advance their goals. It's a thrill to read e-mails in which a student or faculty member describes how a specific action we have taken has had a positive impact in their life. I firmly believe there is a growing sense that even more things are possible when people realize it's not all talk.



Students benefit from a system-wide information system and innovative programs



Record giving from alumni supports student opportunities and enhances facilities

You've heard the expression, "You can't solve a problem using the same thinking that created it." People began to think that because there was no money, there was no possibility for change, no options, no hope. It's a leader's job to remind people that the ideas come first, then money will follow.

Public-private partnerships are critical to maximize resources and provide significant opportunities to enhance the university and the community at large. Often these take several years to produce results, but great progress is apparent in specific programs. I am especially pleased with the Biomedical Complex at Kaka'ako, the West Hawai'i project in Kona and the potential at West O'ahu.

Consider: The medical school isn't just about training doctors; it's also about medical research that diversifies the economy and improves the lives of Hawai'i's citizens. Researchers at the Cancer Research Center bring in \$10 in outside grants for every \$1 of state funding they receive. The Kaka'ako center is also about making education and technology the driving force behind community revitalization. Presented with a plan for Kaka'ako, former Gov. Ben Cayetano and the Legislature funded construction of the medical center. It took real courage after 9/11 to not take a defeatist attitude. Eleven months later, we had the foundation for a facility that I hope will someday house Hawai'i's first Nobel Prize winner.

Sometimes it's hard to predict which initiatives will get a lot of play in the media.

Some of the most monumental changes seem the least interesting to the media. Many are viewed as inside baseball and having no impact upon the community at large. For instance, I don't think it is widely understood how reorganization has improved our ability to address long-standing issues that have frustrated the university

community. It will be easier to advance new programs, provide useful budget information, solve articulation issues and more fully support faculty efforts to secure grants. The reorganization and strategic plans generated very positive visits from our accrediting agencies last year and have enabled us to initiate long term budget planning based on our stated priorities.

Also this past year, we undertook the largest (\$26 million!) software project in our history, creating a system-wide student information system. Students can now register for classes at multiple campuses via the Web. They receive a single bill for tuition and fees from all campuses and have financial aid calculated based on their complete enrollment picture. It's not as exciting as bringing Olympic gold medalist Herman Frazier on as Mānoa's athletic director or securing constitutional scholar Avi Soifer as our law school dean, but for the student day-to-day, it is incredibly important.

What's been the hardest part of the job?

Not being able to provide all the resources to accomplish all that is needed. I truly hope that the state's economic situation will improve to the point that we can deliver a new contract to our faculty and pay them what they deserve. In our last round of negotiations with the faculty union, we came to agreement in 21 of the 22 outstanding issues. Many had been unresolved for a decade. Salary was the 22nd issue. As this goes to press, we are in discussions with Gov. Lingle's chief negotiator and optimistic that we can come to an agreement that appropriately recognizes the value of our faculty. Of all the goals set for this institution, this is the most important one—absolutely number one in my mind.

Continued on page 22



Students find science smooth sailing

Story by Chris Measures

Photos by Eric De Carlo and Chris Measures

When students in Mānoa's new Global Environmental Sciences program say college is a cruise, they're not talking about easy lessons or light workloads. For 23 intensive hours in October, 16 students had a hands-on look at life as a marine scientist. Oceanography graduate students Andreas Andersson and Joseph Shacat proposed the cruise to expose students from the department's undergraduate and graduate programs to state-of-the-art sampling techniques used at sea by School of Ocean and Earth Science and Technology research oceanographers. The students were accompanied aboard UH's newest research vessel, *Kilo Moana*, by three faculty advisors with significant seagoing experience—oceanography professors Chris Measures and Eric De Carlo and post-doctoral researcher Karen Selph. SOEST provided funding, and the *Kilo Moana* crew embraced the educational activity.

Immediately after leaving Honolulu harbor, the global environmental sciences students met Captain Gray Drury, mustered for a Coast Guard-mandated safety drill on emergency procedures and divided into four teams, each led by a graduate student or faculty member. At Station 1, half a mile off Puu O'o along the Wai'anae coast, the lessons in sampling began. Team 1, headed by De Carlo, helped Selph deploy a fine mesh net for sampling the upper ocean's plant and animal life. After being towed for about 20 minutes at 1–2 knots, the net was brought aboard, and the contents taken into the laboratory so organisms could be identified under the microscopes.

Team 4, headed by GES senior Maxime Grande, sprang into action, helping handle the tag lines as a deep-sea water sampling system was

Cruise participants muster for the mandatory abandon-ship drill, left

For 23 intensive hours in October, 16 students had a hands-on look at life as a marine scientist

lowered over the side. As the system descended, the package's sensors relayed data on temperature and salinity of the water column back to the ship. Working from the shipboard computer system, students helped me close the sampling bottles remotely as the assembly reached assigned depths on the way back up. Once the sample bottles were back on board, students carefully collected water samples and preserved them under the watchful eye of De Carlo.

While Team 2 took their water samples into the lab to determine the amount of oxygen and salt in each, the shipboard technical support group attempted the first ever piston coring from *Kilo Moana*. The piston core collects sediments from the bottom of the ocean. After some slight modifications to the triggering mechanism, a sediment core was collected and brought back onto the ship. Eager students whisked samples of the sediment to the lab, where they were sieved into different size fractions and studied under microscopes. Others sealed the ends of the core in its plastic liner for return to shore. It will be used to help understand the history of underwater sediment landslides that occur along this part of O'ahu.

After an excellent dinner in the ship's mess and a spectacularly colorful sunset, two of the four teams were sent "off watch" while the others continued the lab and deck work. As the ship sailed toward our deepwater offshore station, students watched *Kilo Moana's* multibeam seismic imaging system paint a three-dimensional picture of the ocean floor.

Arriving at Station 2, Team 1 deployed the water sampling system

once again. With a depth of 2,700 meters to plumb, it was 1 a.m. before the system reached the bottom—time for the night watch to wake up and come on duty, relieving the other teams so they could sleep. The new team took over triggering the closing mechanism on the water bottles as the sampling package was brought back to the surface. Once that was recovered, it was time for another net tow. The night haul was quite different, sampling animals that migrate into the upper waters only during the night. An impromptu, real-time feeding experiment occurred when a curious student added one of the small fish caught in the net to a dish containing a jelly predator. The fish was swallowed whole, under the microscope, for all to see.

By 3 a.m., the net tow was completed, and the ship headed back to port. Work continued, however, as the night watch team processed samples. By dawn, the ship approached the sea buoy outside the harbor, ready to return to its berth at Snug Harbor. Although the hour was early and the night had been long, all the students were up to watch the arrival. They helped offload equipment onto the dock so the ship could prepare for its next research cruise.

We heard one student say she wanted to live onboard the ship. Others asked to repeat the experience next year. No wonder—this cruise engaged bright young undergraduates from Japan to France and communities around Hawai'i in the challenges of scientific research on a world class research vessel. 🍹



Student scientists Zach Eisenberg and Andrea Rivera, foreground, prepare a water sample for tests to determine the amount of dissolved oxygen



The student cruise used Mānoa's new, state-of-the-art, twin-hull research vessel *Kilo Moana*



A concentrated itinerary provided a spectacular sunset for Marissa Daniels and Heather Kikkawa, along with a hands-on look at an oceanographer's life



Proud members of the ship's technical support group, from left, Gabe Foreman, Steve Poulos and Dave Gravatt, display the first piston core sample of the ocean bottom to be collected from *Kilo Moana*

Sustainable

The effect of tourism on the history, economy, culture and environment of the Hawaiian Islands is pervasive and ongoing. The industry impacts everything from transportation systems to water supplies, job opportunities to community development and, ultimately, Hawai'i's future. Some UH faculty have long discussed the cleaner and more community-friendly model of business known as sustainable tourism.

Stewards for the future

At its core, sustainable tourism attempts to ensure that a destination can benefit from tourism but still preserve its environment, culture and social structure. Current models of mass tourism have the opposite effect. Without taking sides, the university works to develop and disseminate knowledge and skills so that individual stakeholders can be well-informed decision-makers.

Sustainability has been a theme in the work of newly installed Mānoa School of Travel Industry Management Dean Walter Jamieson for the past 15 years. (See page 22.) "Any form of tourism can be sustainable—adventure, ecological, cultural, farm. I have a list of 23 kinds of tourism that can all be sustainable if done right," he says. "There is no argument that some are more sustainable than others, it's just a

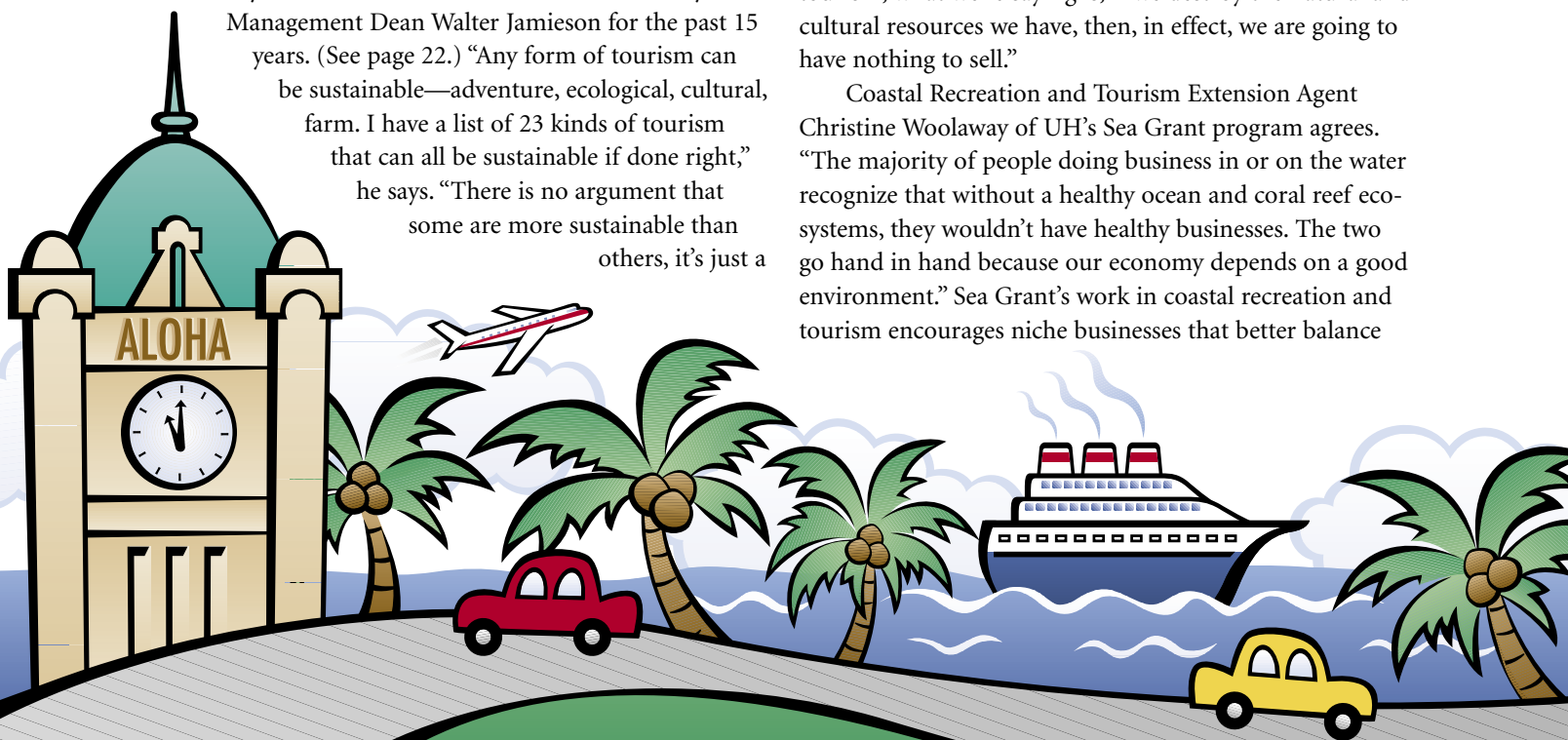
matter of how they are carried out."

Sustainable tourism can mean just about anything to anyone, he observes. "Whether it's low-flow showerheads or a cultural program, businesses tend to pick and choose which aspects of sustainability they use and promote." While there is a small but growing demand on the part of tourists for certain types of sustainable practices, with more substantive policy-level changes, Jamieson hopes the industry will embrace the changes needed to ensure the long-term preservation of our island environment and the tourism industry built upon it.

Sustainable tourism is good business

"There is a misconception that sustainability means higher costs and less profit and is therefore not economically viable," Jamieson says. "My view is the opposite: we can't afford not to be sustainable if we are taking a long-term view. Sustainability means thinking about long-term benefits and impacts, it means the environment that we turn over to our children is in at least as good of condition as when we took over, if not better." Still, a purely environmental appeal isn't going to convince capitalist interests. "We're not talking about stopping growth, we're not talking about stopping tourism, what we're saying is, if we destroy the natural and cultural resources we have, then, in effect, we are going to have nothing to sell."

Coastal Recreation and Tourism Extension Agent Christine Woolaway of UH's Sea Grant program agrees. "The majority of people doing business in or on the water recognize that without a healthy ocean and coral reef ecosystems, they wouldn't have healthy businesses. The two go hand in hand because our economy depends on a good environment." Sea Grant's work in coastal recreation and tourism encourages niche businesses that better balance



by Jeela Ongley
illustration by Kelly Hironaka

Tourism

resource protection with economic development and community needs. But they are not the only ones. Through the Pacific Business Center in the Mānoa College of Business, former residents of Bikini Atoll are being helped to create a revenue stream that will eventually pay for the resettlement of the 3.4-square-mile atoll used to test U.S. atom bombs. Although the land remains contaminated, Bikini Atoll boasts some of the world's best dive conditions.

"Sustainable small-scale tourism can generate revenue without high capital investments or destruction to the environment," maintains Michelle Clark, institutional resource manager and business development specialist at Pacific Business Center. "All Bikinians get a say in how the tourism operation should be developed. It was the Bikinians who voted to open their lands to tourists, and approval to expand operations must be granted by the people." Each of the 3,300 Bikinians gets an even share of the profits, and the eventual goal is to have the dive operations managed and operated completely by Bikinians.

Sustainable tourism is community-based

Academia, the private sector, nonprofit organizations and the government are all vital stakeholders in the quest for sustainable tourism. But sustainable tourism remains a pipe dream without another crucial element: community.

"You can see the stress and strain when communities do not feel like they have been engaged," says Woolaway. "Of course you can't please everyone, but the idea is to start with the community. That is really important." TIM's Pauline Sheldon puts it even more strongly. "You can't do sustainability without resident buy-in. It's impossible, because then you get a rift, and it's not sustainable socially or culturally. There has to be resident involvement, resident agreement, resident enthusiasm."

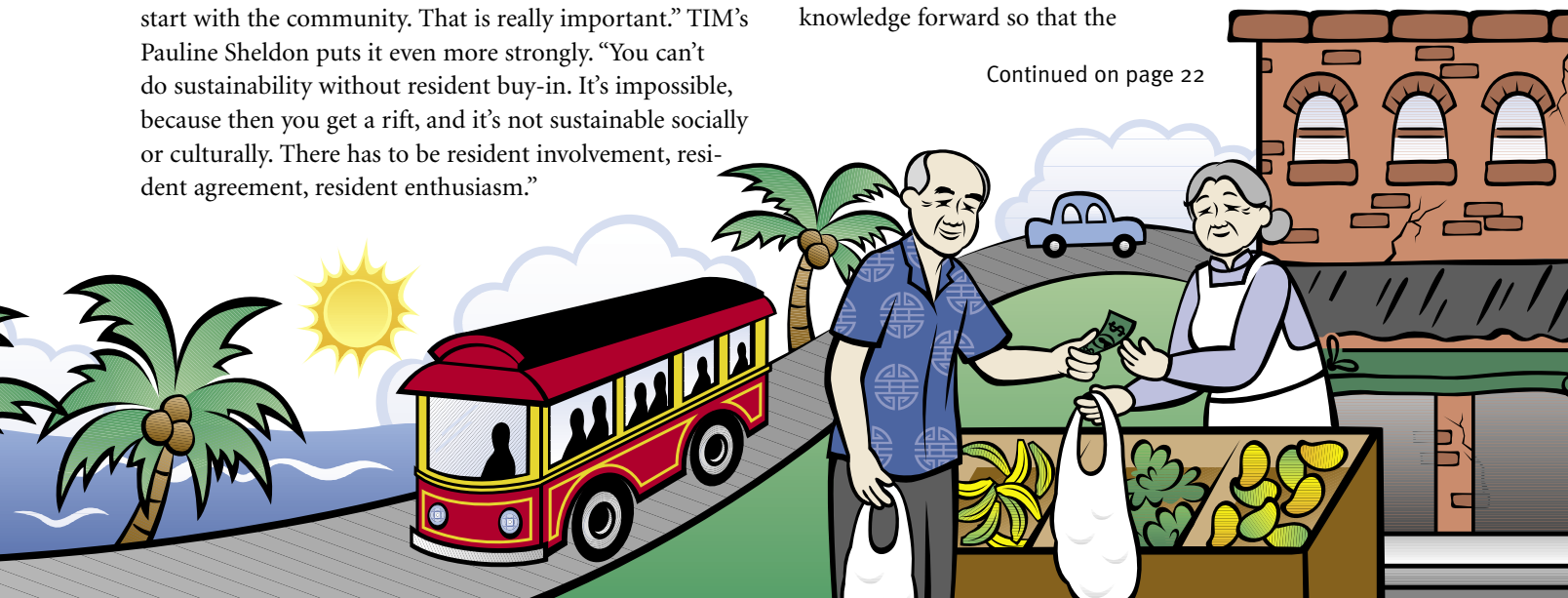
Sheldon's work with the state's Sustainable Tourism Study Group integrates the university's knowledge base with the interests of key stakeholders, all of whom are aware of the need to give the community a voice but admit that it's easier said than done. Barriers to community involvement include centralized and special-interest decision-making, as well as questions of education, money or stereotyping. Still, Jamieson and others at the university remain confident that they can provide opportunities for members of the community to take control.

"A part of becoming a really effective component of the tourism system would be that the community itself tells the visitor about its story—who they are, what makes them different, what values they hold dearly, what traditions are important to them," Jamieson says. "I am particularly concerned about how the university can help the community do that, ensure that they can develop a tourism product that's authentic but, at the same time, helps them create economic development opportunities for the community and be in control of what's going on."

Sustainable tourism is a process

Moving from rhetoric to practice can be eased by the strengths of the UH System. Commitment, knowledge resources and an inclusive educational system all play a role. "TIM is very, very passionate about the idea of sustainable tourism," says Sheldon. "Any way that we can bring training in those ideas, push the field of knowledge forward so that the

Continued on page 22



East to west and pole to pole

Where in the World are UH

Scholarly and scientific research takes faculty members from all 10 campuses around the globe. Here is a sampling of locations for recent faculty endeavors.

1 Rapa Nui Mānoa anthropologist Terry Hunt studies settlement, ecological and human impact on Easter Island.



2 Tahiti Mānoa oceanographer Tony Clarke examines clouds as nature's atmospheric chemistry factories.

3 Dutch Harbor, Kwajalein, Kiritimati Meteorologist Steven Businger and Mānoa colleagues study thunderstorm over the Pacific Ocean via a lightning detection network (Ed Treiber pictured in Alaska).



4 Gulf of Alaska Geophysicist Brian Taylor leads School of Ocean and Earth Science and Technology cruises to conduct ship-board oceanographic and tsunami research.

5 Puget Sound, Washington Mānoa ocean engineer Geno Pawlak conducted field experiments on the formation and evolution of tidal headland eddies, which will help determine dispersal of pollutants and biota.

6 Anvers Island, Central Pacific, off New Zealand Mānoa oceanographer Craig Smith studies sea-floor communities and ecology on the Antarctic ice shelf and ocean floor.



7 Liberty, Missouri Hilo economist David Hammes traced the eco-

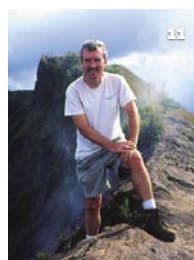
nomic impact of the James Gang's first bank robbery (the first daylight bank robbery in the U.S.), which resulted in the closing of one of the town's two banks.

8 Ohio Jean Johnson, of Mānoa's Center on Disability Studies, is developing a protocol for identifying hearing loss in infants in a project that also takes her to Kansas, Connecticut, New York, Rhode Island and Florida.

9 Washington, D.C. Mānoa Professor of English Valerie Wayne uses Folger Shakespeare Library resources to prepare an edition of the bard's *Cymbeline* for publication.

10 Florida Hilo Librarian Linda Marie Golian-Lui examines learning style differences in providing library services.

11 Costa Rica, Nicaragua, Bali Mānoa planetary scientist Peter Mougins-Mark's recent research has taken him to Poas, Masaya and Batur (pictured) volcanoes, respectively.



12 Virgin Islands Hilo marine scientist Jim Beets develops fish monitoring and conservation strategies in the Caribbean and at Palmyra Atoll.

13 Ecuador and Kenya (pictured) Rainer Bussmann, Lyon Arboretum science director, integrates scientific and cultural considerations of plant biodiversity, regeneration and management in tropical mountain cloud



forests.

14 Brazil Mānoa Botanist David Duffy seeks natural agents to control miconia and other invasive weeds threatening Hawai'i.

15 Argentina Benjamin Brooks, Hawai'i Institute of Geophysics and Planetology, uses



GPS data to understand how earthquakes are generated.

16 Azores Marine biologist Kim Holland and Mānoa colleagues document movement of fish species.

17 Nares Strait Hawai'i Institute of Geophysics and Planetology software engineer Roger Davis mapped the seafloor off Greenland from aboard a U.S. Coast Guard icebreaker.

18 Iceland Mānoa oceanographer Chris Measures determines dust's delivery of iron to the ocean's surface and its impact on biological production.

19 Ireland Hilo's Keola Donaghy examined the state of the Irish language and efforts to perpetuate it.



20 St. Petersburg Ruth Dawson, professor of women's studies at Mānoa, conducted research on Russian Tsarina Catherine the Great at the State Hermitage Museum and Russian National Library.

21 Moscow Mānoa historian Louise McReynolds researched murder in late impe-

Faculty?



rial Russia.

22 France, Belgium and Austria Kathryn Hoffman, Mānoa French professor, scoured 18th- and 19th-century museums to document historical imagery of the human body.



23 Hungary Leeward oceanographer Tony Russo studies freshwater plants and seaweeds.

24 Croatia Oceanographer Pierre Flament uses high-frequency radar to map ocean currents and tides in the Adriatic Sea; Mānoa colleague Philip Moravcik does similar work in Italy.

25 Italy Professor of Law Denise Antolini is examining international environmental law.



26 Turkey West O'ahu's Christopher Conybeare is exploring press freedoms in transitional democracies.

27 Israel Mānoa political scientist Kathy Ferguson records the effects of militarism on society.

28 Nairobi Mānoa linguist Kamil Ud Deen studies the acquisition of Swahili language skills by Kenyan children ages 2–4.

29 Mauritius Mānoa plant scientist John Griffis promotes greenhouse-based amenity horticulture.

30 Antarctic Mānoa's High Energy Physics Group detects neutrinos from a balloon circling the Antarctic and conducts particle research in Japan and China.

31 West Antarctic Ice Shelf Michael Bevis, Hawai'i Institute of Geophysics and Planetology, measures ground movement changes in the bedrock of the ice sheet.



32 Indonesia Kirstin Pauka, Mānoa, immersed herself in martial arts and Randai theater of the Minangkabau ethnic group of West Sumatra.

33 India Mānoa Geologist John Mahoney searches for the major feeder dike swarms of the Deccan flood basalt.

34 Afghanistan-Pakistan border Leeward historian Abdul-Karim Kahn explores the resurgence of Al-Qaeda and Taliban forces in tribal areas.

35 Krasnoyarsk Barbara Dougherty, Mānoa professor of education, is creating an elementary mathematics curriculum based on Russian research.

36 Siberia Mānoa pediatrician Ric Yanagihara tracks hantaviruses in the Korean field mouse.

37 Mongolia Mānoa computer scientist Dennis Streveler consults on the use of information technology to improve healthcare delivery.

38 Myanmar David Wong, Asian studies professor at Honolulu, examines incomplete murals for clues to the Mongol invasion.

39 Thailand Mānoa anthropologist Bion Griffin trained as mahout (elephant driver) to conduct ethnographic research on elephant use in Cambodia.



40 Thailand Mānoa geographer Lyndon Wester's visits to Buddhist monks in forest reserves reveal a link between spiritual renewal and forest restoration.

41 Cambodia Windward botanist Ingelia White documents edible and medicinal orchids and other plants.

42 Vietnam Director David Hipple, Mānoa's Second Language Teaching and Curriculum Center, studies language instruction.

43 Shanghai Mānoa philosopher Graham Parkes is documenting the role of rock in the classical Chinese scholar's garden.



44 Taiwan Robert Cheng, Mānoa, is revamping the *Guoyu Cidian*, the 10-volume standard reference on Chinese language.

45 Okinawa Mānoa scientists Robert Kinzie and Kenneth Kaneshiro conduct reef and land ecology projects.



46 Korea Mānoa Professor Judy Van Zile researches Korean dance and dance-drama in Korea and Hawai'i.

47 Tokyo Jean Ippolito, Hilo art professor, examines Japanese artists' use of computer technology in the creative process.

48 Northeast of Guam Gregory Moore, Mānoa, uses seismic reflection and refraction to study the structure of the Mariana Island arc system.

49 Belau Jane Moulin, Mānoa professor of ethnomusicology, documents Pacific music.

50 Lake Joyce Mānoa geochemist Eric De Carlo analyzes trace elements in water samples from Antarctica.



51 Tonga Mānoa botanist Don Drake examines the recovery of the forest and flying foxes after Cyclone Waka.

52 Samoa UH Sea Grant Extension Agent Darren Okimoto is helping develop an aquaculture industry.

53 Solomon Islands Mānoa botanist Will McClatchey explores cultural interactions with the environment and traditional healthcare methods and related studies.

54 Midway A Mānoa oceanographic team explores the ways the ocean affects climate.



A Century by the Sea

UH's busiest visitor attraction has garnered praise and made history for 100 years in Waikīkī

by Jennifer Crites

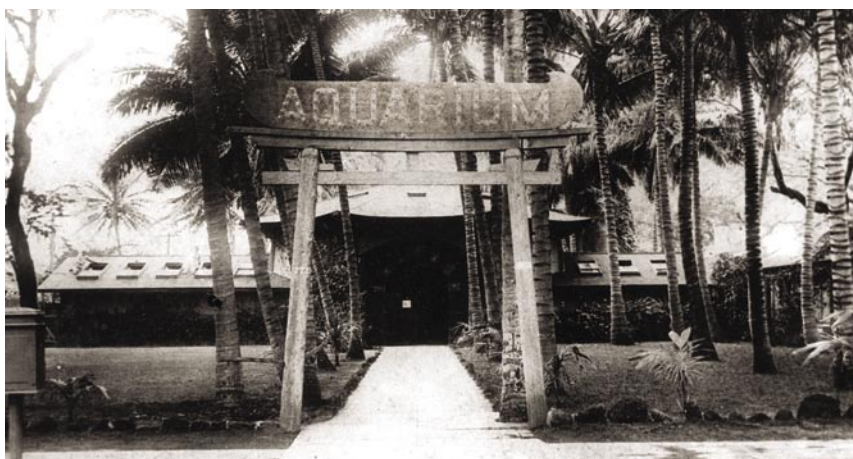
On March 19, 1904, a crowd gathered on Waikīkī Beach to celebrate the grand opening of the Honolulu Aquarium. It was the third public aquarium built in the United States and one of only a dozen worldwide at the time. Noted lawyer and U.S. presidential candidate William Jennings Bryan enthused, “No visitor to Honolulu should fail to see the aquarium.” Author Jack

London called it a “wonderful orgy of color and form” from which he had to tear himself away after each visit. More recent visitors, including Japan’s Crown Prince Akihito (now emperor) and actors Christian Slater and John Travolta, have been equally impressed. *The Lord of the Rings’* Sean Astin called it “cool.”

The aquarium was the brainchild of Honolulu Rapid Transit Company Director Charles M. Cooke, who contributed \$8,000 of its \$12,800

cost. It was originally conceived as a Kapi’olani Park attraction and trolley stop that would lure riders to the “suburbs,” as Waikīkī was then known.

Renamed the Waikīkī Aquarium following its reconstruction in 1955, this ocean observatory still draws both tourists and residents. With 329,000 visitors, the aquarium was 12th on the *Pacific Business News* 2003 ranking of Hawai’i visitor attractions, ahead of Sea Life Park, the U.S.S. *Bowfin* Submarine Museum and 13 other attractions. Visitors are wowed by such seagoing inhabitants as archerfish that spit water to catch bugs, a whip-tailed zebra shark, piranha from the Amazon (donated by Hawai’i authorities who confiscated the illegal imports), cat’s-eye and bubble corals, sea dragons, venomous scorpionfish that camouflage themselves as rocks and pulsating sea jellies so clear you can see what they’ve been eating. And that’s just a sampling of the 420 species of aquatic



Only the third such facility in the country when it opened in Kapi’olani Park, Waikīkī Aquarium as it was then, left, and today, above

animals and plants on display.

Throughout its history, the aquarium has aimed at excellence in both research and exhibitry. “We can’t be as big as aquariums on the mainland,” says former Director Bruce Carlson, “but we’ve done things they couldn’t do.” A West Coast researcher insisted that no one could keep giant clams alive in an aquarium; Carlson proved him wrong, nurturing several—the largest now 170 pounds and 26 years old. “We were the first aquarium in the U.S. to hatch a nautilus embryo and to grow coral,” Carlson notes. Such achievements have earned respect and accolades from aquarium organizations worldwide, including two recent MACE Award grants for conservation education excellence in aquatic exhibits and two Edward H. Bean Awards, one for pioneering methods of growing live corals and sharing more than 2,600 coral cuttings with other facilities and the other for research on the chambered nautilus, which scientists call a living fossil.

There have also been a few surprises, such as a hijacked crocodile (retrieved a few hours later when it washed up on Waikīkī Beach) and what staffers call the coral wars. “By day the brain coral has no visible tentacles,” recalls former Director of Education Carol Hopper, “but during one of the popular aquarium after dark classes, we saw six-inch sweeper tentacles come out and kill other corals that had encroached into its growth space.” Carlson rearranged the tank to give the killer brain coral more room.

Besides the coral battles, the aquarium has survived two World Wars and the Gulf Wars, the Great Depression, Hawai‘i recessions and other societal upheavals. Crowds are expected to gather in Waikīkī once again to celebrate as the aquarium

enters its second century. For a list of activities during the yearlong celebration—not to mention marine classes, guided reef and shoreline explorations, snorkel trips to Pacific Island destinations, behind-the-scenes tours and other popular aquarium offerings—call 808 923-9741. 📞

by Jennifer Crites (AA ’90 Windward, BA ’92 UHWO), a Honolulu-based freelance writer/photographer

Historical Highlights

1904 The aquarium opens March 19 with 35 exhibits and 400 marine organisms. Potter’s angelfish is named for Director Frederick Potter, a former Honolulu Rapid Transit Company clerk.

1912 C. M. Cooke Estate funds a marine biology laboratory, launching the aquarium’s research tradition under the islands’ first professionally trained zoologist, Charles Edmondson.

1919 The aquarium becomes part of the University of Hawai‘i.

1940 Zoologist and author Spencer Tinker is appointed director. He is the namesake of Tinker’s butterflyfish.

1955 The new facility opens 100 yards from the original site

1975 Ichthyologist Leighton Taylor becomes director. He develops the first exhibits master plan and launches the aquarium’s education department, volunteer program and friends group. Taylor’s goby fish is named for him.

1990 Bruce Carlson is named director. He focuses on naturalistic exhibits featuring aquatic life and habitats of Hawai‘i and the western Pacific. Carlson’s damselfish is named for him.

2000 Coastal America Partnership names the aquarium a Coastal Ecosystem Learning Center.

2004 Appointment of the fifth director is pending at press time.



Waikīkī was the first aquarium to successfully display several Pacific species, including the giant clam, above

Getting there

We launch from the Baikonur Cosmodrome on a Russian spaceship called a *Soyuz TMA*—latest in a series based on the design of the spacecraft that the first man in space, Yuri Gagarin, flew into space over 40 years ago. At the launch pad, I flash the shaka sign. The *Soyuz* is your basic no frills reliable ship. It was designed to fly humans to and from an orbiting space station, which takes two days. The space station looks like a huge mechanical insect with appendages and solar array wings sticking out. With a thud, we dock.

Learning to fly

We fly around inside the station. I thought I was pretty good after two shuttle flights, but I have a lot to learn. I move along handrails, leaving a cloud of debris. When flying across the module, you continue in a straight line until you grab onto something or hit the far wall. If you don't push through your center of mass, you end up doing flips or rolls across the room. Eventually, you don't think about the mechanics of flying any more than you do about the mechanics of walking.

Dining at Cafe ISS

I actually like the food. The only utensil we use is a spoon. Food that has some sort of sauce or moisture to it naturally sticks to the spoon. This is the same effect that allows drops of water to stick to windows. Russian drink packets are clear plastic with a one-way valve, where you add water, and a built-in straw. If you aren't careful, they leak. The same property of liquids that lets them stick to your spoon also makes liquids stick to your face. I know this from experience. But you don't have to worry about food spilling out of the can if it turns upside down. We have dehydrated foods, such as tvorog (a sweet Russian cottage cheese with nuts—my favorite breakfast item). I chose some Chinese foods (like sticky rice with sweet bean paste), beef jerky from Hawai'i and dried calamari.

Supplies from home

The *Progress* freighter brings supplies, spare parts, water, food and goodies from home. Before opening any hatch, you have to equalize the air pressure. We open a

Letters from the Space Station

Ed Lu was a postdoctoral researcher with UH's Institute for Astronomy when he was tapped by NASA for space flight. He was science officer on the International Space Station Expedition 7, April 25–Oct. 27, with Commander Yuri Malenchenko. Here are excerpts from his e-mails home. Photos courtesy of NASA



Astronaut and former UH postdoc Ed Lu

valve to let air flow. We could immediately smell apples. Last night we celebrated by making space bruschetta. I put the tomato in a plastic bag and hold my hand inside the bag with the knife. I manage to keep most of the tomato inside the bag. We add some garlic paste and olive oil, mix well and serve it on tortillas. Delicious!

We continue to unbolt and pull out the equipment inside *Progress*. After that we'll load the garbage we've collected over the last month and a half. When *Progress* is full, we'll close the hatch and send it on its way. It will vaporize like a shooting star as it reenters the atmosphere.

Orbiting every 90 minutes

The section of Earth you can see at any one time is about 2,000 miles across, almost enough to see the entire United States at once. It isn't seeing the Earth like a big blue marble, it's more like having your face up against a big blue beach ball.

One of my favorite orbit tracks starts over the equator southwest of Hawai'i. The large runway at Honolulu International Airport is easy to pick out against the blue of the water. We head northeast. San Francisco, Oakland and San Jose have a grayish color. In the bay near Fremont (where my parents live) are huge maroon ponds; this color is from bacteria growing in the ponds where they evaporate water to collect salt. We continue northeast over the Rocky Mountains. Thunderhead clouds look like flattened cauliflower heads. Southern Canada is covered with a myriad of small lakes. You can see airplane contrails, white condensation trails, converging on Chicago. We pass over the St. Lawrence River, Newfoundland and out over the Atlantic. As we head southeast, we see the red deserts of the western Sahara. As we round the southern tip of Africa, we see the lights of Cape Town. The southern Indian Ocean is a great place to watch thunderstorms. Lightning flashes illuminate the clouds from within and ripple through the storm systems. As we near Australia, we see the aurora, glowing green curtains that move upward from the top of the atmosphere. The orbit crosses over the Great Barrier Reef and various South Pacific islands ringed by coral reefs. The most

striking thing is the bright almost iridescent aquamarine green color of the water.

Weighing in on gravity

The trick to being in orbit is going fast enough (18,000 mph) to go all the way around the Earth in the time it takes gravity to turn your direction around. A common misconception is that we are weightless because we are beyond Earth's gravity. In fact, we are in orbit because we are being pulled downward by gravity. We are weightless because the entire ship is being pulled in exactly the same way. It is the same feeling that you get in a roller coaster going over the top—light in your seat for a moment because the seat is falling out from under you.

As far as your muscles and bones are concerned, life is effortless. Muscle loss occurs if muscles aren't being used. Astronauts also lose bone density during long space flights. We rotate through four main pieces of exercise equipment. The treadmill is loosely suspended inside a pit in the floor. A big gyroscope inside stabilizes it to isolate vibrations so they don't shake the station. We wear a harness connected to the treadmill with bungee straps. Two bicycles face the largest windows. The equipment I use most goes by the acronym RED (resistive exercise device). Resistance is provided by a stacked series of disks with rubber spokes inside two canisters connected to the spiral pulley that unwinds as you pull a cord out.

Daily routine

We live on Greenwich mean time. We can't live by the daylight cycle since we get 16 sunrises/sunsets a day!

The toilet is operated by air pressure. A fan does the work that gravity does on the ground. Next up is breakfast, followed by our daily 8 a.m. planning conference with the control centers in Houston, Moscow and Huntsville. There is a host of experiments, from medical investigations with us as the subjects to experiments on magnetized fluids and ultraviolet observations of lightning storms. We have general housekeeping activities—like cleaning filters, inspecting emergency equipment, sampling our water supply for contaminants, vacuuming out the air ducts, etc.



International Space Station



Space jam session with Yuri



Exercise in zero G



Sunset every 90 minutes

After sweating on the treadmill or bike, it is time to clean up. We use no-rinse soap and shampoo and a towel.

We break for lunch around 1 p.m., then get back to work. In the afternoon we have another exercise session, then another short conference. Following dinner, we have a few hours of free time. I work on science experiments of my own, send and read e-mails and take photographs out the window. There is also a small electronic piano I like to tinker on. The other night was amateur barber night. I have a sleeping compartment, about the size of a phone booth, in the Laboratory Module, and Yuri has one in the Service Module. I have no trouble falling asleep.

Stargazing

The view is close to what you might see on a very dark mountaintop on a very clear night. Only better. The Milky Way is incredibly distinct. Mars has been a great sight recently. We aren't significantly closer than you are on the ground, but without the atmosphere to look through, it is clearer and brighter.

I've been taking photographs of sites visited by the explorers Lewis and Clark. This year is the 200th anniversary of the start of the Lewis and Clark expedition. These guys surveyed thousands of miles of territory on foot, horseback and canoe over three years. Now that was real exploration! Hopefully, what we are doing here will someday help us explore deep space as we revisit the moon, explore asteroids and one day settle on Mars. The advent of ocean-going ships in the 1400s was a huge boon to science, not because we did scientific experiments on the ships, but because the ships took us to places never dreamed of and opened new settlements and trade routes. I think we will reap additional benefits of the space station when we use it to help learn how to send people to the far reaches of the Solar System. 🌌

Complete Musings from Space:

<http://spaceflight.nasa.gov/station/crew/exp7/luletters/index.html>

Lu's Biography:

www.jsc.nasa.gov/Bios/htmlbios/lu.html

Sustainable tourism from page 15

industry here and in Asia-Pacific can learn more about how to do it, that's really part of our mission." She continues, "Sustainability is a process that requires certain levels of infrastructure. It's not just the private sector and individual firms that need to buy into this. Of course they need to, but so does local government."

Jamieson brings international view

The School of Travel Industry Management's new dean is a self-described "cultural tourist" who prefers educational activities to outdoor adventure and is strongly committed to principles of sustainable and responsible tourism. Walter Jamieson was drawn to UH by TIM's reputation as one of the top three travel schools in the English-speaking world, Mānoa's proven track record in the Asia-Pacific region and excellent resources within the rest of the UH System. Now he courts two constituencies. At home, he trumpets TIM's world-class hospitality program with leading edge emphasis in tourism and travel management. Abroad, he assures stakeholders that the school is flourishing despite the retirement of legendary former Dean Chuck Gee and expanding research and teaching in tourism destination and resort planning and management.



Walter Jamieson

Jamieson has worked as advisor and consultant to a half-dozen organizations, including the United Nations, World Tourism Organization and Cambodian Ministry of Tourism. He spent the past five years in southeast Asia, directing tourism initiatives throughout the region, and he received Canada's 2003 Queen's Jubilee Medal.

The new dean plans to guide TIM in effective partnerships in Hawai'i and the Asia-Pacific region, making the best use of available knowledge for a sustainable future. "I'm passionate about ensuring that tourism doesn't have negative impacts on communities in general, so I'm concerned about environmental impacts, cultural impacts, social impacts and how our planning and management ensures that we're doing the kinds of things we should be doing in the industry for the long term." He also seeks to collaborate with community college programs like Kapi'olani CC's culinary arts and Interpret Hawai'i, which train the industry's skilled workers. "Some people think we're in competition. We're not. UH has this almost seamless set of skill and knowledge development, from front-end entry level training to the master's degree. This gives us a unique advantage."

To help stakeholders understand sustainable practices, the school must share knowledge with the larger community. The university has a responsibility to develop knowledge and make it useable. "That's the only time that sustainability, from my perspective at least, is going to happen here in Hawai'i and other places," Jamieson insists. "If it stays in our libraries and computers and bookshelves, it's useless. We have to translate it. Unless we can package the information and get it out, it ain't gonna work." 📖

For more information

UH Mānoa School of Travel Industry Management
DBEDT Planning for Sustainable Tourism in Hawai'i
Hawai'i Sea Grant
Bikini Atoll Tourism

www.tim.hawaii.edu
www.hawaii-tourismstudy.com
www.soest.hawaii.edu/seagrant
www.bikiniatoll.com

Jeela Ongley (BA '97 Mānoa) is Web content coordinator and copywriter in External Affairs and University Relations

Changes bring progress from page 11

What are your hopes for UH in the coming years?

Many people are involved in efforts to further initiatives to provide the best possible resources for our citizens. With everyone's efforts, progress will continue on programs that had been talked about for years, such as building the biomedical complex and forming an Academy of Creative Media (Asia-Pacific film school). It is a particular pleasure to work closely with educational and community leaders on the vital issue of coordinating public education from preschool through graduate education. With so many people of talent and goodwill coming together, we will see a real difference in public education at all levels. Soon a community colleges baccalaureate degree will help neighbor islands meet their own needs, such as "home growing" public school teachers. Enormous progress has been made to support our Native Hawaiian programs, but much more needs to be done. Continued

efforts are needed to seek support for more educational resources for the students of West O'ahu; a college town environment in Mō'ili'ili; more dormitories at Hilo, Maui, Mānoa and Kaua'i and finalization of plans for the Cancer Research Center site.

Whenever I travel, I devote significant time to telling alumni about the strength this university has in its students, faculty, researchers and programs. Now an integral part of the reinvigorated UH Foundation, Alumni Relations has made communication with alumni a priority, and the alumni have responded with record giving rates—a nearly 23 percent increase this past year alone!

There are, of course, many needs on every campus, but I am encouraged to see the efforts of so many people working cooperatively to make significant change. 📖

I am encouraged to see the efforts of so many people working cooperatively to make significant change

Living *the* Dance

Alumna Cheryl Flaharty directs
the Iona Contemporary Dance Theatre

by Stacy Yuen Hernandez

Photo by Carl Hefner

Most artists spend a fair amount of time studying the creative process fueling their craft. Cheryl Flaharty, founder of the Iona Contemporary Dance Theatre, has made it a lifetime pursuit. “Life is dance. Dance is life,” she muses, passion evident in her face and voice. Officially, Flaharty is creative director. In reality, her many roles include choreographer, grant writer, executive director and costume designer.

As choreographer, Flaharty (BA in dance '81 Mānoa) envisions physical movement embodying the hybrid dance form Iona is famous for. She describes it as “a cross between the Japanese avant-garde dance form Butoh and modern dance, with a strong new-age focus and a little performance art.” The group’s productions are undeniably unique. A *Los Angeles Times* review called an Iona performance “a visual coup de theater... (that) casts a genuine spell.”

Art is a life process, Flaharty says. “If you go back and look at the source, it brings you to where you are today.” Born in Xynea, Ohio, but raised in Hawai‘i, she first staged dance presentations featuring neighborhood children on the lānai of her family’s Foster Village home. Her father was an Air Force bomber pilot, and her mother, disabled by rheumatoid arthritis, designed dresses in her head. Flaharty’s love of dance persisted into college. “I’ll never forget my first choreography class with Carl Woltz. He taught us the importance of meditating before starting something.” UH made it possible for her to have a career in dance, she says. A majority of Iona’s dancers are UH graduates or students.



Photo by Sergio Goes

Cheryl Flaharty, above, is the creative force behind Iona. In *Vision of Angels*, dancers like Lena Ang (BA '91 Mānoa), top right, inspire audiences through outreach to prisons, hospitals, senior centers and youth programs






*Anything done
with consciousness
is dance* —Flaharty

The road for an arts organization can be rough in a place like Hawai'i. "We're in competition with other things. Still, we've created something loved by a large chunk of people," she reflects. "It's hard to grow beyond Hawai'i, but we have a national and international presence as well." A goal this year is to create a for-profit arm. Fortunately, Flaharty has a solid business brain to accompany her creative side. "I try to continue my art but look at market development," she says. She also hopes to find a permanent home for the company—costumes and props overflow the modest Kailua rental it calls home base.

There, volunteers are busy building extraordinary costumes for a coming performance. Flaharty displays a piece of fabric, her eyes lighting up as she explains what she plans to do with it. Trained as a dancer, she excels in costume design, redefining the word "lavish" as it applies to dancers' apparel. She has transformed a dancer into an ornate tree and painted nearly nude dancers silver. "I see it as one—dancing and visual art. Anything done with consciousness is dance," she says. "I like the moment an idea moves to the physical form. Where you actually tell the dancers 'now take this and do that.'"

Improvisation is key to Iona performances, and perhaps the same could be said for the audiences. You never know what to expect but leave with something personal. "I try to create something visual, auditory, kinesthetic, intellectual and spiritual so everyone has something," she says.

Iona performs *Hawaiian Myths & Legends* Friday, April 2nd and Saturday, April 3, 2004 at the Hawai'i Theatre Center, www.hawaiiitheatre.com, (808)528-0506. For more information and additional performances, visit the Iona Contemporary Dance Theatre Web site at www.iona360.com or e-mail info@iona360.com. 

Stacy Yuen Hernandez is a Honolulu freelance writer



Reconnect to UH— Kevin Takamori did!

Current Position: Associate vice president for alumni relations, University of Hawai'i Foundation

Previous Position: Director of travel study, Harvard Alumni Association, Cambridge, Mass.

Recent Achievement: 2003 Harvard Hero Award for outstanding work in alumni affairs and development

Hawai'i Education: Pearl City public schools, '82 'Iolani School, BA '88 UH Mānoa

Guilty Pleasure: Chili plate and strawberry slush from Rainbow Drive In

Kevin Takamori strongly believes the UH System is *our* university. As alumni, we have benefited and continue to benefit from its resources, and we are responsible for its ongoing excellence and success.

"As a local boy and UH alumnus, I feel incredibly proud and grateful to have received an excellent education here. That's why I recently left a great job at Harvard to move back to Hawai'i and serve our great institution," he says. "In my new role at the UH Foundation, I look forward to partnering with the UH Alumni Association across our 10 campuses to create meaningful programs and services for all alumni."

There has never been a more exciting time to join UHAA and participate in the many exciting programs and activities planned in the Islands, on the U.S. mainland and in Asia.

Make the connection

Name (last, first, middle/prior last name)

M / F Circle

Mailing address

City

State

Zip

Country

Telephone (home, work, fax)

E-mail

UH Campus(es) attended*

UH degree(s)

Graduation year(s)

Name of spouse/significant other

M / F Circle

UH Campus(es) attended*

UH degree(s)

Graduation year(s)

Please select alumni chapter on reverse side

ANNUAL MEMBERSHIP (check one)

- ☐ \$50 Single, O'ahu
- ☐ \$60 Couple, O'ahu
- ☐ \$25 Single, Mainland/Neighbor Island/International
- ☐ \$35 Couple, Mainland/International
- ☐ \$45 Couple, Neighbor Island

Circle one: New member Renewal

LIFE MEMBERSHIP (check one)

- ☐ \$750 Single
- ☐ \$1,000 Couple
- ☐ \$175 (1949 graduate or prior/age 70 and over)

METHOD OF PAYMENT (check one)

- ☐ Check or money order enclosed (payable to UHF/UHAA)
- ☐ VISA ☐ MasterCard ☐ AmEx

Credit card no.

Expiration date

Signature

*Please include degree and campus information from all UH campuses attended (example: Kapi'olani CC & UH Mānoa)

Please return this form to:

UHF/UHAA, 2440 Campus Road Box 307
Honolulu, HI 96822-2270

Fax: 808 956-6380

Phone: 808 956-ALUM (2586) **Toll free** 1-877-UH-ALUMS

E-mail: alumnews@hawaii.edu

Become part of the club

When you join the UH Alumni Association (application on reverse) you can choose from any one of the active alumni chapters listed below. Alumni chapters unite alumni by region, campus, special interests or college/major. Each chapter offers a unique mission and special benefits to the university and UHAA members. Call toll free 1 877 UH-ALUMS for more information on chapters.

CAMPUS CHAPTERS

- ☐ Association of Alumni & Friends of UH Hilo
- ☐ Association of the Kaua'i CC Alumni
- ☐ Hawai'i CC Alumni Association & Friends
- ☐ Honolulu CC Alumni Association
- ☐ UH West O'ahu Alumni Association

UH MĀNOA CHAPTERS

- ☐ Colleges of Arts and Sciences Alumni Association
- ☐ College of Business Administration Alumni & Friends
- ☐ College of Education Alumni Association
- ☐ College of Tropical Agriculture and Human Resources Alumni Association
- ☐ Department of English as a Second Language
- ☐ Dental Hygiene Alumni Association
- ☐ Engineering Alumni Association
- ☐ Alumni Association of the John A. Burns School of Medicine
- ☐ Journalism Alumni Association
- ☐ Nursing Alumni Association
- ☐ School of Architecture Alumni Association
- ☐ School of Library & Information Sciences Alumni
- ☐ School of Public Health Alumni Association
- ☐ School of Social Work Alumni & Friends
- ☐ Travel Industry Management International
- ☐ William S. Richardson School of Law Alumni Association
- ☐ Army ROTC Alumni
- ☐ Ke 'Anuenue Alumnae Association
- ☐ UH Founders Alumni Association
- ☐ Te Chih Sheh

REGIONAL CHAPTERS

- ☐ UHAA-Arizona
- ☐ UHAA-Beijing
- ☐ UHAA-East
- ☐ UHAA-Greater Midwest Region
- ☐ UHAA-Hong Kong
- ☐ UHAA-Las Vegas/Southern Nevada
- ☐ UHAA-Los Angeles/Orange County
- ☐ UHAA-Maui Club
- ☐ UHAA-National Capitol Region Chapter
- ☐ UHAA-Pacific Northwest
- ☐ UHAA-San Diego
- ☐ UHAA-San Francisco Bay Area
- ☐ UHAA/EWCA-Florida Chapter
- ☐ N.I.C.E. Alumni Association (Japan)

UH 'Ohana

From Seattle to Tokyo, alumni in 30-plus chapters reunited with old friends and celebrated their association with UH this fall. "We are thrilled so many UH graduates attend events in Hawai'i where so many live," observes Christine Kondo, president of the UH Alumni Association. "We're also pleased to see increasing numbers of alumni getting involved across neighbor islands, the U.S. mainland and internationally." Alumni Relations Director Kevin Takamori adds, "We plan to build worldwide alumni programming that will appeal to graduates from all 10 campuses."

Mainland

About 2,000 West Coast Warriors fans enjoyed the San Jose State pre- and post-game fairs organized by the San Francisco Chapter in November. Pacific Northwest alumni met in early November to listen to guest speaker Gail Stronger, former emcee for the Makaha Sons concert at the Benaroya Hall and owner-manager of the Seattle Hawai'i general store. The chapter plans its annual winter stew and rice gathering in February.

Neighbor Island

More than 40 alumni descended on the Westin Maui hotel for a UHAA-TIM chapter reception. Paul Yokota (BBA '79 Mānoa) provided a spontaneous guitar and vocal performance. Several alumni reunited the following week at the Maui Invitational game to cheer the UH men's basketball team to victory against University of Santa Clara.

International

UH Foundation President Betsy Sloane and Director of Corporate Relations Caroline Ingersoll met with alumni living and working in the Tokyo area. Events included a reception for nearly 100 co-hosted by the College of Business Administration at Dentsu Headquarters.

Save the Date!

UH Alumni Association Distinguished Alumni Award Presentation and Dinner

Thursday, May 20, Sheraton Waikīkī Hotel

Since 1987, the UH Distinguished Alumni Award has recognized extraordinary alumni achievement.

Presented by UHAA in partnership with the UH Foundation Office of Alumni Relations

For information and reservations
call 1-877-UH-ALUMS (toll-free)
e-mail alumnews@hawaii.edu



Campuses: UH Mānoa, Hilo and West O'ahu; Hawai'i, Honolulu, Kapi'olani, Kaua'i, Leeward, Maui and Windward Community Colleges

2000s

Byron Shibata (JD '00 Mānoa) is a JAG officer in Alaska.

Ian Hilawati (JD '02 Mānoa) is with Torkildson Katz Fonseca Moore & Hetherington in litigation and labor/employment.

Emi Morita Kaimulua (JD '02 Mānoa) married Kamakana Kaimulua on Sept. 6.

1990s

Ihsia Hu (BA zoology '96, MLIS '97 Mānoa) and **Carlos Fernos** (BA Spanish '98 Mānoa) reside in Damascus, Md. Their daughter, Clara Xuanyun, turned 1 in August. Ihsia is a librarian/cataloger at the National Library of Medicine. Carlos is pursuing his MLS degree.

Tricia Marciel (BA '95, MA '98 Mānoa) played Roxie in Diamond Head Theatre's *Chicago*, for which she was nominated for a Po'okela award as leading actress in a musical. She starred as Eliza Doolittle in the Windward CC's production of *My Fair Lady*.

Michelle Pethel (BA '99 West O'ahu) is studying at St John's University Rome for a master's degree in political science.

Tammy Thompson (AA '92 Leeward; BFA '02 Mānoa) writes from Anchorage. Even though the climate is different, there are a lot of locals and you can still get a good plate lunch.

Jong Wang (PhD Chinese '96 Mānoa) received the American Biographical Institute Hall of Fame award.

1980s

Richard Burns (MA '80, MLIS '87 Mānoa), branch manager of Kapolei Library on O'ahu, was named 2003 public librarian of the year for his success as Waimānalo branch manager in securing funding to expand hours and developing an award-winning native plant garden.

Al Mamaril (BA '80, MEd '85, MLIS '92 Mānoa) and wife, **Elaine** (MLIS '80 Mānoa), have lived and worked in Minnesota since 1992. Al is a tenured faculty librarian with the Minnesota State Colleges and Universities system. Elaine is supervisor at Columbia Heights Public Library and serves as a substitute reference librarian in the Anoka County Library system.

Hing Sham (PhD '80 Mānoa), together with two colleagues, was named a hero of chemistry by the American Chemical Society for developing an antiretroviral agent to treat HIV. Hing is director of



metabolic disease research, Pharmaceutical Products Division, Abbott Laboratories.

1970s

Noa Emmett Aluli (MD '75 Mānoa) was honored for his lifetime contribution to the Hawaiian community by Kamehameha Schools, receiving the order of Ke Ali'i Pauahi. Noa is an assistant clinical professor in the department of family practice at UH's John A. Burns School of Medicine and is known for his efforts to improve the health of Moloka'i and Lana'i communities.



David Cole (BA '76 Mānoa) has been appointed CEO of Maui Land and Pine. He previously served as chief executive at the database software company Ashton-Tate and president of AOL's Internet Services Co. and New Enterprises Group.

Roger Dell (MA '70 Mānoa) is in charge of an innovative collaboration between a private museum, the Fitchburg Art Museum, and the local public school system in Massachusetts. Middle school students take their classes in the museum galleries all day, every day. The program has received national attention and became the only Lincoln Center Institute Focus School located outside of New York City. Roger has also taught at Harvard University Graduate School of Education and lectures widely on art history, arts education and museums.



Greg Gardner (BBA '76 Mānoa) retired as Kansas's state adjutant general in command of the Kansas Air National Guard, the Kansas Army National Guard and the Division of Emergency Management on Oct. 31. Kansas Gov. Sebelius praised the "exceptional job" Greg did during the past four years.

Fred Magdalena (PhD sociology '77 Mānoa) is back at Mānoa as a visiting fellow after 25 years teaching at Mindanao State University in the Philippines.

Kent Nakamura (BA '74 Mānoa) is vice president-regulatory and deputy general counsel of Nextel Communications.

Mark Perkins (AA '77 Leeward; BA '80, MLS '81 Mānoa) co-edited a Civil War reminiscence written by a veteran of that war. *Lone Star Confederate: A Gallant and Good Soldier of the Fifth Texas Infantry* was published in April 2003.

Pamela Sanderson (BA history '71, MA political science '72 Mānoa) is Chancellor's Professor



Steve Lyons

Nothing but blue skies

Claim to fame: Widely broadcast weather expert

Degrees: BS '76, MS '77, PhD '81 in meteorology, Mānoa

Extracurricular: Attended UH on a track scholarship

Home: Roswell, Ga., shared with wife and two children

Favorite Hawai'i surfing spot: Laniākea on the North Shore

Steve Lyons left Huntington Beach, Calif., for Mānoa more than 30 years ago intending to become a physician. But the track star/surfer soon changed his plans. "I didn't miss any questions on a meteorology exam," he says. "I called my parents to tell them I was changing my major." His father asked him if he would be able to find a job. Lyons wasn't sure, but confidently replied that many opportunities awaited a future meteorologist.

Fortunately, his forecast was correct. Before joining The Weather Channel in 1998, Lyons enjoyed many jobs, including researcher, ocean wave forecaster and professor. Still, 95 million people worldwide know him best as The Weather Channel's tropical weather expert. The cable station, in its 21st year, is not yet available in Hawai'i, but it's where mainlanders turn when nature's fury approaches. During hurricane season, Lyons works around the clock providing information to viewers.

"Everything I know about weather, I learned at UH," Lyons says. "It's possible to help people and save lives. And, the best thing about my job is that I can go outside anytime and look at it."

—Stacy Yuen Hernandez, a Honolulu freelance writer

UHAA Activities

See www.uhf.hawaii.edu/uhalumni/calendar.htm.

Feb 15 Scholarship Brunch and Craft Fair, Leeward CC; 877 UH-ALUMS

Feb 18 UHAA Life Members Luncheon, 11:30 a.m., Wai'ālae Country Club; 877 UH ALUMS

Feb 19 CASAA Breakfast and Annual Meeting with Mānoa microbiology researcher Maqsudul Alam, 7:30 a.m., Pacific Club, RSVP required; 808 956-4051

Mar 3 School of Architecture Alumni screening of *Gattaca*, 6:30 p.m., Mānoa Architecture Auditorium; 808 550-0503

Mar 27 Las Vegas Chapter Sixth Annual Stew Dinner; hevveh@aol.com

Apr 3 Pacific Northwest Chapter reception with Mānoa Dean of Social Sciences Richard Dubanoski, Anthony's Pier 66, Seattle; den@kerlee.com

Apr 3 Hawai'i CC Alumni and Friends Ninth Annual Chancellor's Golf Tournament, 6:30 a.m., Naniloa Country Club; 808 974-7368 or yamaner@hawaii.edu

Apr 7 School of Architecture Alumni screening of *North by Northwest*, 6:30 p.m., Mānoa Architecture Auditorium; 808 550-0503

May 1-2 Las Vegas Chapter booth at Lei Day, California Hotel Parking Lot, Las Vegas; hevveh@aol.com

May 5 School of Architecture Alumni screening of *My Architect* by Nath Kahn, Mānoa, Architecture Auditorium; 808 550-0503

May 20 UHAA Distinguished Alumni Awards Dinner, Sheraton Waikiki; 877 UH-ALUMS (842-5867)

of Law and Information Management at UC Berkeley. She delivered the William S. Richardson School of Law Distinguished Lecture in November.

Jess Taisague (AA Hawai'i '78; BA arts and sciences Hilo '81) was appointed president of Saipan University in the Northern Marianas.

Darryll Wong (BA '72 Mānoa) is brigadier general and chief of staff at Hawai'i Air Guard headquarters at Diamond Head.

1960s

Ed Imamura (BA '65 Mānoa) is, at age 81, still enjoying weekly golf, tai chi, walking, line dancing and hula.

Patricia Y. Lee (BA French '65, JD Law '79 Mānoa) is an estate and trust attorney, Hawai'i's honorary French consul and chair of the UH Board of Regents. She was featured as "The face of France in Hawai'i" in the Oct. 1, 2003 issue of *Midweek* newspaper.

Theodore Martin (MBA '69 Mānoa) was elected to the Board of Directors of C.R. Bard Inc., a leading multinational developer, manufacturer and marketer of medical technologies.

Joyce Tsunoda (BA '60 'PhD Mānoa) retired from the University of Hawai'i in December 2003 but not from education. The former chancellor of community colleges will split her time between Hawai'i and Japan, where she plans to teach and study. A November dinner in her honor raised more than \$400,000



toward an endowment to fund community college leadership activities.

1940s

Isabella Aiona Abbott

(BA '41 Mānoa) was honored for her lifetime contribution to the Hawaiian community by Kamehameha School, receiving the order of Ke Ali'i Pauahi.

Isabella is known for her groundbreaking work in the scientific study of seaweeds, other traditional Hawaiian plants and their uses.



In Memory

Wah Fai Dang (BS '42 Mānoa) died May 15. He spent 53 years working in the sugar industry, beginning on Kaua'i and retiring at age 75 when O'ahu Sugar closed in 1995. He maintained fruit trees and had a passion for tennis and travel, visiting China, Australia, New Zealand, Europe and the Panama Canal and driving across the North American continent.

Richard Tadatoshi Sakuoka (MS '68 Mānoa) died Dec. 1. The Waialua native managed and expanded the College of Tropical Agriculture and Human Resources' seed program after joining the Mānoa horticulture faculty in 1969.

Send Class Notes information and photos to alumnews@hawaii.edu or *Mālamalama*, 2444 Dole St., BA 2, Honolulu HI 96822. Please include the campus(es) you attended and year(s) you graduated, and indicate if your name has changed.



Moon over the Midwest

The UHAA Greater Midwest Chapter and guests celebrated the birthday of founding Chapter President **Piliāloha Richardson** on Nov. 22 at Evanston's Prairie Moon Restaurant and the home of current President **Karen Mendyka Huff**. From left, **Kevin Chang**, **Jim Hagstrom** ('BA '77, JD Mānoa), **Corilyn Pang**, **Bob Capioni**, **Richardson** (BA '70 Mānoa), **Paul Dillinger**, **Huff** (BEd '65 Mānoa), **Mary Ada Dillinger** (MLISC '79 Mānoa), **Paula Cohen** (MSW '65 Mānoa), **Kay** and **Herbert** (BA '53 Mānoa) **Yamashiroya** and new chapter member **Steven Chun** (BBA '85 Mānoa).

Music inspires alumna's art

Sculptor **Jan-Michelle Sawyer** (MA '92 Mānoa) worked from photos to create the likeness of Israel Kamakawiwo'ole in 2001, but she felt his presence. Two years later, she celebrated the installation of her tribute to the popular singer/composer in the presence of his family and hundreds of fans. The three-quarter size

bronze bust memorializing "Bruddah Iz" resides outside the Wai'anae Community Center thanks to a fundraising drive supported by fans in Hawai'i and California. Dedicated to honoring those who have contributed to Hawaiian music (her bust of virtuoso slack key guitarist Gabby "Pops" Pahinui graces the entrance to the Waikiki Shell), Sawyer donates her time as a gift to Hawai'i. She began her training in sculpture at Mānoa while studying communication. She maintains Jan-Michelle Sculpture in Honolulu and Nevada City, Calif., and writes about her craft online at www.hawaii.rr.com/leisure/reviews.



Jo Ann Schindler New state librarian

UH degree: BA in psychology, '70
Mānoa

Recent read: *The No. 1 Ladies' Detective Agency* by Alexander McCall Smith, borrowed from the local library

Non-reading pastime: Watching science fiction movies (especially *Aliens*)

Family: Husband Mark, a Honolulu CC physics professor

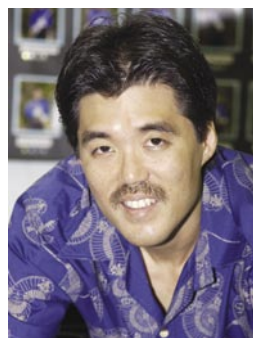
Honors: 1999 Library System Employee of the Year, MCI Hawai'i Cybrarian of the Year

Two alumni receive \$25,000 Milken

UH graduates are recipients of the coveted Milken Family Foundation National Educator Awards in at least two states. The \$25,000 prize is awarded to just 100 teachers in the country for inspiring students, colleagues and the community and contributing to their profession. The teachers will be honored in Washington, D.C., in May.

In Hawai'i, **Elden Seta** (BEd '87 Mānoa) was honored for 16 years of building the music program at Moanalua High School. Strict but popular, he has expanded enrollment by 40 percent and taken performing groups to Carnegie Hall and Rose Bowl parades and will direct students in Japan's International Band Festival in March. Moanalua students have voted him Outstanding Teacher of the Year three times.

In Nevada, **Joanne E. (Otoshi) Ho** (BEd '76 Mānoa) has taught at Clark High School for 14 years, serving as English department chair the last six. She works with at-risk students and helped create a team-taught, cross-curricular character education program with adult advocates. "My early experiences at Mānoa introduced me to my most influential educators and role models and on-site experiences," says Ho, who is active in the UH Alumni Association with husband Stanton, a 1990 recipient of UH's Distinguished Alumni Award.



Hawai'i's new state librarian takes a dual approach to challenges. Jo Ann Tanouye Schindler plans to improve technology and train staff to use it. She hopes to increase the materials budget but encourages staff to be creative where funds aren't available. She certainly knows her way around a library. After earning a master's at UC Berkeley, she worked in libraries in San Francisco and Los Angeles before returning to Hawai'i as a Maui CC librarian in 1977. She worked as branch manager at Kamuela, reference librarian in Pearl City, head of research and evaluation for the state system and section head at the Hawai'i State Library, where she was director for one year. In October she accepted responsibility for a 50 branch, 500 employee, \$25 million system with 800,000 card-carrying patrons. Described by colleagues as personable, intelligent and an excellent communicator, Schindler's first act as acting state librarian in July was to survey staff system-wide on possible library initiatives.

Support the UH of today... and tomorrow

Each time I walk through any of the university campuses, I'm reminded of the important role alumni and friends have played and will continue to play in securing our vision for the UH system. On behalf of the



UH Foundation, thank you for your continued support.

Today, no university can attain and sustain academic excellence without a healthy balance of public and private funds. The reality is that private giving drives the quality and growth of the University of Hawai'i at a time when state funding is in decline. Fundraising will yield

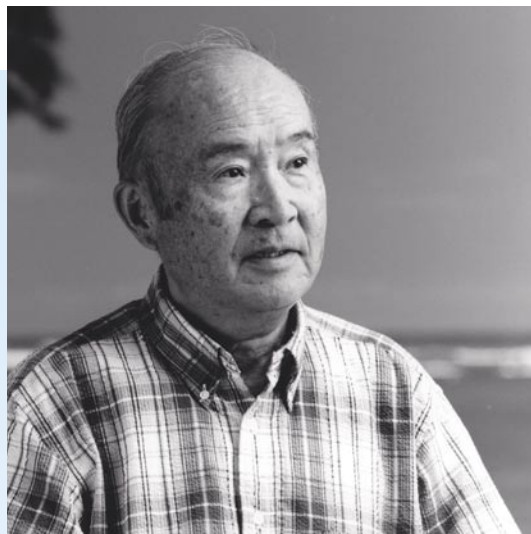
tangible dividends for the people of Hawai'i by assuring access to quality public higher education and through investment in the state's growing and changing economy.

Achieving our vision will require fundamental, permanent gains in quality. A healthy endowment helps make this possible by providing flexibility in the face of unpredictable financial markets and, in the case of public universities such as ours, increasing reliance on private support. Current state funding is at the level of 1992. The proportion of state support has dropped from 80 percent to 46 percent in a few years. Our current endowment of approximately \$100 million is inadequate for an institution of our size and stature.

In the months ahead, you will hear about ambitious new efforts to increase our endowment. It's a tall order. As always, it is a mission that can only be accomplished in partnership with you. Your ongoing support, generosity and legacy have brought us to where we are now. We look forward to working together to support the UH of today...and tomorrow.

Betsy Sloane, President

University of Hawai'i Foundation



Philanthropist Paul S. Honda

From strands of pearls to opportunities for students

Paul S. Honda's life story reads like the script for a Hollywood movie, complete with international intrigue, foreign locations and a happy ending here in Hawai'i.

Born in Manchuria and raised in Tokyo, Honda dreamed of studying abroad. In 1945, he returned to the land of his birth as the youngest exchange student ever at the National University of Manchuria. With the defeat of Japan and the end of World War II, the Russian army took control of Manchuria and Honda was ordered to attend Moscow University. When he refused, he was sent to a labor camp. He escaped and made his way to Dalian where he worked as a Russian-Chinese-Japanese interpreter until his repatriation to Japan.

Unable to continue his studies in Manchuria, Honda turned to America, where he entered the University of Denver's MBA program. Short of funds, he sold seven strands of pearls that his mother had given him for such a purpose, and started Honda and Company. Thus began a highly successful career in international trading.

Honda's visionary approach to philanthropy led to the creation of the Honda Foundation, which has supported more than 50 non-profit organizations. That and a lifelong affinity for international affairs resulted in a \$1 million endowment to establish the Honda International Opportunities Fund, which benefits students attending University of Hawai'i community colleges. One of the largest endowment funds ever established for the UH community colleges, the fund enables students in liberal arts and technical fields to participate in international study programs at institutions in Asia, the Pacific and Europe. Honda's gift reflects the varied and interesting life he continues to live.

Blow the fans down

Dad-daughter duo boosts the volleyball band spirit

The Wahine Volleyball Team had just won the regional playoffs and Lily Kahumoku was running the circumference of the Stan Sheriff Arena brushing high fives with fans. When she came to the corner containing the Pep Band, she stopped, pumped both fists in the air and emphatically cheered the enthusiastic musicians who infuse the arena with energy. “Lily is always like that. She says, ‘You guys kick a**!’” laughs Assistant Band Director Gwen Nakamura. Members of Mānoa’s marching band rotate through appearances at men’s and women’s basketball games, but the 30 or so who play at volleyball games are dedicated volunteers.

Which begs the question: What’s the deal with those hats?

For the past few years, Nakamura has

appeared at volleyball games in fantastical balloon headgear that dwarfs her diminutive frame as she dances, plays the tambourine and cues the band. Each hat is crafted in the arena before the game by Russell Hiranaga, a season ticket holder since 1995 who travels from Maui for nearly every game and has attended four “final four” tournaments. Rainbows, dogs, flowers, a watermelon, you name it and Hiranaga has made it. He and his brother-in-law taught themselves balloon art to carry on the tradition started by some anonymous UH students. “They made balloon hats and gave them out to kids, but they stopped coming to games. I guess they graduated,” Hiranaga says.

Such spirit is hereditary. A fledgling intermediate school flutist when she first accompanied her dad to the games, Angela Hiranaga found herself watching the band. She learned to



Assistant Director Gwen Nakamura, above, leads spirited volunteers in the Wahine volleyball band. Photos by Russell Hiranaga, a season ticket holder, balloon-hat maker and proud band dad

play sax in part so she could be part of the volleyball band. By her junior year at Maui High School, encouraged by Band Director Kerry Wasano (BA ’96, MEd ’98 Mānoa), she was determined to attend UH Mānoa. “I play at the games every chance I get. I’ve been waiting a long time to play in that band, and I enjoy every minute of it,” she says. Even one-time adolescent angst about her father’s conspicuous balloon blowing has given way to admiration. “It’s super cool. I wouldn’t trade it for anything,” she says.

And the fate of the hats?

Nakamura gives them to a youngster in the crowd at the conclusion of each game. Well, all except the elaborate Christmas tree complete with ornaments that she took home as a prop for her holiday picture. 🎄





Sculptures by John T. Koga (BFA '88, MFA '92 Mānoa)
clay, wood and watercolor
to 20" tall

Koga, chief preparator at The Contemporary Museum in Honolulu, is revisiting beauty as a freelance artist. Commissioned works appear in Hawai'i, Japan, Texas and Florida and he has exhibited in Honolulu, New York, Los Angeles, London and Tokyo.

Landmark Legacy for Marine Biology



At age 99, Erica Karawina Hsiao, accomplished stained glass artist and widow of the late UH Professor of Zoology,

Dr. Sydney Hsiao, left a legacy gift to the University of Hawai'i Foundation, for the College of Natural Sciences at the University of Hawai'i at Mānoa. With her bequest, the University will endow a professorship to support the College's new program in Marine Biology.

The Foundation and the University are extremely grateful to Mrs. Hsiao for helping us to perpetuate stewardship of our ocean resources.

You, too, can help the University to shape the future of our communities by including a gift, large or small, to the University of Hawai'i Foundation in your will or trust.

If you have already named the UH Foundation in your estate plan, please notify us so that we may express our gratitude and welcome you to our Heritage Society.

For assistance, in confidence, please call Susan Lampe at (808) 956-8034, e-mail giftplanning@uhf.hawaii.edu, or return the coupon at right.



-
- ☐ I would like information on making a bequest to the University of Hawai'i Foundation for the benefit of any of the 10 campuses of the University of Hawai'i system.
 - ☐ I have already included the University of Hawai'i Foundation in my ☐ will or ☐ trust.
 - ☐ Please send me information about the Heritage Society.

Name

Address

Daytime Phone (optional)

E-mail (optional)

RETURN TO: University of Hawai'i Foundation, Office of Gift Planning, P.O. Box 11270, Honolulu, HI 96828. Note: Please consult your advisor about such a gift.

.....



arts etc.



CONCERTS

- Feb 21** Miami Wind Quintet, Mānoa Orvis Auditorium 808 956-8742
- Feb 27** Misako Ito, violin; Tosiaki Hayashi, cello; Yukako Hayashi, piano, Mānoa Orvis Auditorium 808 956-8742
- Feb 28–May 2** Various performances by the Mānoa Music Department, 808 956-8742 or www.hawaii.edu/uhammusic/schedule.htm
- Mar 5** The Amsterdam Loeki Stardust Quartet recorder consort, Mānoa Orvis Auditorium 808 956-8246
- Mar 27** Classical guitarist Sharon Isbin, Kaua'i CC 808 245-8311
- Apr 2–4** Carmina Burana, Mānoa Chamber Singers join the Honolulu Symphony and Symphony Chorus, Blaisdell Concert Hall 808 956-8742
- Apr 10** Baaba Maal, music of Africa, Leeward CC 808 956-8246
- Apr 16** The Colorado Quartet with mezzo soprano Mary Hessinger. Mānoa Orvis Auditorium 808 956-8246
- Apr 18** Leeward CC Guitar Concert, 808 455-0385
- STAGE**
- Feb 22, 25** Silk Road, Chinese, Irish, Brazilian music and more; Feb 22 at Leeward CC 808 455-0385; Feb 25 at Kaua'i CC 808 245-8311
- Feb 28, Mar 6** David Ward's Dance Quake IV, Feb 28 at Leeward CC 808 455-0385; Mar 6 at Hilo 808 974-7310
- Mar 5–14** Annual Dance Concert, Mānoa Kennedy Theatre 808 956-7655
- Mar 13** Ballet Jazz de Montreal, Leeward CC 808 455-0385
- Mar 31–Apr 4** *Ashes to Ashes* and *Far Away*, Mānoa Earl Ernst Theatre 808 956-7655
- Apr 2–10** Sondheim songs and a quirky ensemble chorus, Hilo 808 974-7310
- Apr 23–May 2** *Nozaki Village*, traditional kabuki performed in



Apr 30–May 1

May 5–9

SCREENINGS

Mar 4–Apr 15

English, Mānoa Kennedy Theatre 808 956-7655

Dance Festival, Leeward CC 808 455-0385

Spring Footholds dance concert, Mānoa Kennedy Theatre 808 956-7655

Cinema from Africa and the Diaspora series:

Mar 4 *Taafe Fanga* (Skirt Power); Mar 18 *Faat Kine* tribute to everyday heroism of



African women; Apr 1 *Dôlè*, a Gabonese perspective on the global crisis facing today's youth; Apr 15, *Ndeysaan* (The Price of Forgiveness); Hilo UCB 100 808 974-7524

EXHIBITIONS

Thru May 14

Work by art faculty through Apr 8 and by graduating BFA students beginning Apr 25, Mānoa Art Gallery 808 956-6888 or galley@hawaii.edu

Thru Apr 9

2004 *Pacific States Biennial National Print Exhibition*, Hilo Campus Center Gallery www.uhh.hawaii.edu/~art

LECTURES

Feb 24

Sculptor Chakaia Booker on her work with worn and ruptured tires, Mānoa Art Auditorium 808 956-8474

Mar 16–17

Gordon Unialiloa Lahanau-o-Kalakaua on crafting Hawaiian weapons, Mānoa Art Auditorium 808 956-8474

Mar 16

Ian Wilmut, biologist and sheep cloner, Mānoa Campus Center Ballroom 808 956-9405 or bakerd@hawaii.edu

Apr 26

Writer activist Barbara Ehrenreich on *Nickel and Dimed: On (Not) Getting by in America*, Mānoa Campus Center Ballroom 808 956-9405 or bakerd@hawaii.edu



MISC

Feb 21

American Institute of Architecture Students' 27th Annual Great Hawaiian Sandcastle Esquisse, Kailua Beach Park, (808) 956-3461 or aias@hawaii.edu

Apr 18

5th annual Institute for Astronomy open house, Mānoa IfA 808 956-8566 or www.ifa.hawaii.edu

