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A satellite image of a hurricane, showing a distinct eye and spiral cloud bands. A grid of latitude and longitude lines is overlaid on the image. Latitude lines are marked with numbers 12, 16, 20, and 24. Longitude lines are marked with numbers 140, 144, 148, and 152. The hurricane is centered around 16 degrees latitude and 148 degrees longitude.

Hurricane! Will Hawai'i get hit?

New nurses and pharmacists Theatre duo bows out
Distinguished Alumni 2011 The new aquaponics



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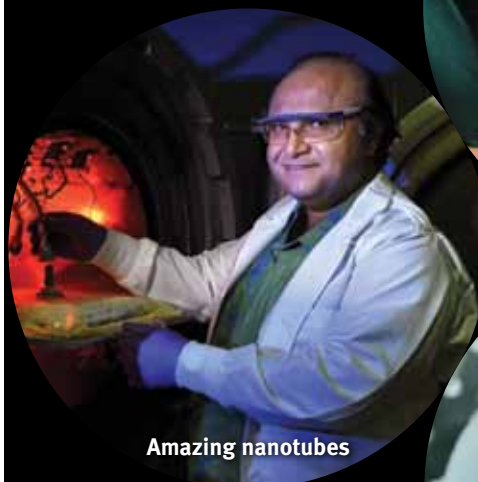
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Didn't see the January issue of Mālamalama Online?

Here's what you missed—



Amazing nanotubes



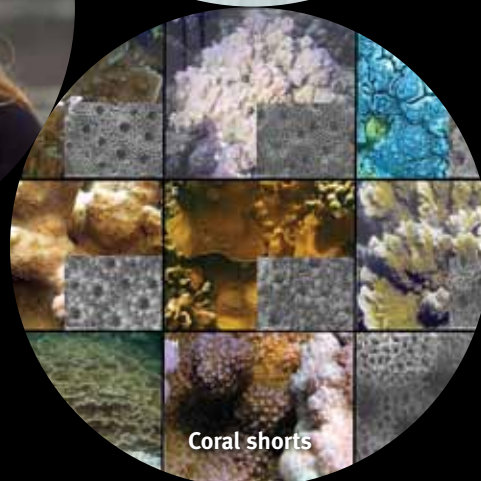
UH space race



Plastics from waste



Alumni genius



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On the Cover: Studying Hurricane Felicia (photo courtesy of NOAA) and other storms, UH meteorologists are beginning to unravel the making of a tropical hurricane, allowing them to improve models that will generate more accurate predictions. Read more on page 16.

Mālamalama Online: Tour historic Hawai'i theatres and learn how to make a backyard aquaponic system in *Mālamalama* videos.

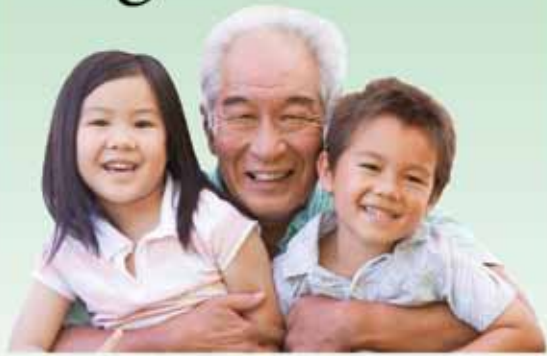


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Alaska partnership joins UH to develop telehealth

Alaska and Hawai'i share similar healthcare challenges, including service delivery in remote settings and native peoples who suffer from disproportionate rates of serious illness. So the John A. Burns School of Medicine and College of Social Sciences at UH Mānoa have joined the Alaska Federal Health Care Partnership to develop telehealth technologies to provide preventive, promotive and curative aspects of healthcare. Building on a decade of experience in telemedicine and a department dedicated to the health of Native Hawaiians, the medical school's Telehealth Research Institute will leverage a three-year, \$980,000 federal grant to establish the Pacific Basin Telehealth Resource Center.



Spring 2011 commencement ceremonies scheduled

For details see the UH System calendar at www.hawaii.edu/calendar.

Friday, May 13

Hawai'i	7 p.m., Edith Kanaka'ole Stadium, Hilo
Honolulu	5:30 p.m., Waikiki Shell, Honolulu
Kapi'olani	6 p.m., Kapi'olani campus Great Lawn
Kaua'i	6:15 p.m., Kaua'i campus Performing Arts Center
Leeward	5 p.m., Leeward campus Tuthill Courtyard
UH Maui Center	5:30 p.m., Maui Beach Hotel, Kahului

Saturday, May 14

UH Hilo	9 a.m., Edith Kanaka'ole Stadium, Hilo
UH Mānoa	9 a.m. baccalaureate, 3 p.m. advanced degrees, Mānoa campus Stan Sheriff Center
Windward	1 p.m., Windward campus Palikū Theatre
UH West O'ahu	5 p.m., Neal Blaisdell Concert Hall, Honolulu

Sunday, May 15

UH Maui College	1 p.m., Maui Arts and Cultural Center, Kahului
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UH West O'ahu to share facilities with Tokai College

Under a memorandum of understanding signed in January, UH West O'ahu will share dormitory space at its new campus in Kapolei with Hawai'i Tokai International College. The new West O'ahu campus is expected to open in fall 2012. HTIC, the only American campus of the private Tokai University Educational System, plans to move next door.

Under the arrangement, students from Japan and Hawai'i will live in the same dormitories and take advantage of shared programs and other facilities. "By placing one of Japan's outstanding institutions of higher education alongside our newest and most modern university campus, we will offer opportunities that benefit both campuses," says UH President M.R.C. Greenwood. Students who complete their two-year liberal arts degree at HTIC will be able to pursue bachelor's degrees at UH West O'ahu.



Kawasaki chapter proposed

The John A. Burns School of Medicine physician who first identified Kawasaki disease outside of Japan and continues to study the mysterious, life-threatening illness hopes to start a Kawasaki Disease Foundation chapter in the state. More than 2,000 people in Hawai'i have had the disease, which involves serious inflammation of blood vessels; 60–120 new cases are diagnosed here annually, most often in children under age 5 like Hoyt and Ryder, above, says Professor Marian Melish, an infectious disease specialist.

The cause is not known and there is no specific test for diagnosis. Unless diagnosed in the first seven days, Kawasaki disease can result in death or heart attacks during recovery and later in life. The disease is about 16 times more common among Japanese and Koreans, but is found in all ethnic groups. Symptoms include fever lasting five or more days; a rash, often worse in the groin area; bloodshot eyes without drainage or crusting; bright red, swollen, cracked lips; "strawberry" tongue; swollen hands and feet and redness of palms and soles; and swollen lymph nodes in the neck.

The first international meetings on Kawasaki disease were held in Hawai'i, and successful treatment—which slashed rates of heart damage—was developed in the state. Still, cases are often misdiagnosed or overlooked. A KD Foundation chapter will create awareness among the public and doctors, provide improved educational materials and support continued research, Melish says. For information on the nonprofit organization see www.kdfoundation.org; for information on the Hawai'i chapter, call Laura Bonilla at 808 983-8873.

—Helen Altonn



Program teaches kids to save

Michael Cheang turns \$25 into a savings adventure and valuable lesson for Hawai'i children. "Research shows that those who learn to save as children tend to be better at managing their finances" as adults, says Cheang, an assistant professor of family and consumer sciences in the UH Mānoa College of Tropical Agriculture and Human Resources.

He began his Kids Savings program in 2008 with a Hawai'i Community Foundation grant that provided \$25 per child to open a savings account. It has grown to 17 public elementary schools, including 11 on the neighbor islands. "It is quite phenomenal to think that about 1,000 kids, mostly from low income families, have been able to save about \$106,000 since we began," he marvels.

The University of Hawai'i Federal Credit Union was the first institution to partner with Cheang. Tellers set up in the cafeteria at participating schools each month to handle transactions. "It's very encouraging to see the children develop savings habits that will positively impact their financial future," says Branch Operations Manager AshLee Mahelona, impressed by the students' enthusiasm.

Families who hadn't thought of saving or didn't believe they could afford it are now regular savers, and appreciative parents have opened their own accounts, Cheang adds. "They report how their kids are now making smart money choices and how it has improved their family dynamics."

—Kymber-Lee Char

CARING FOR KŪPUNA: Alicia Towler, left, Cecilia Gregory and fellow graduate students in Mānoa's Myron B. Thompson School of Social Work recently organized the first Papakōlea Community Health Fair for elderly residents and their families. "We wanted to help kūpuna

access services that are available to them, but that they may not know about," says Gregory. In addition to information on services like Meals on Wheels, the fair included activities to promote a healthy lifestyle—such as exercise options, cooking demonstrations, diabetes education, alternative health practices and tips on reading food labels. UH pre-medical students provided information on smoking cessation and local nurses did blood pressure checks. The event also included live music, hula performances and a farmers' market. "It was such a success, we already have the date for next year and will partner with Lincoln Elementary School to do it bigger and better," says Adrienne Dillard, executive director of Kula no na Po'e Hawai'i community group. Slide show at www.hawaii.edu/malamalama.



Spring enrollment soars, summer tuition drops

Spring enrollment increased for the fourth straight year, reaching an all-time high of 56,716 for the 10-campus UH System in January, up nearly 23 percent from 2007. Honolulu Community College posted the biggest gain, with 301 more students.

As an incentive for those students to attend summer session, nine of the campuses are instituting a one-time reduction in resident summer tuition to \$248 per credit hour. That's \$68 per credit hour below the current tuition schedule for UH Hilo and UH West O'ahu and \$35 per credit hour less for the community colleges. Hilo students can also take advantage of discounted summer housing rates in the Hale 'Ikena apartment complex. Information at <http://hilo.hawaii.edu/housing>.



Hilo plans one-stop services center for students

UH Hilo broke ground Jan. 15 for a new, one-stop Student Services Center fronting the Performing Arts Center. The 35,000-square-foot structure will allow students to enroll, register and pay for classes under one roof, as well as take advantages of support services including financial aid, advising, career development, counseling and health promotion. The center "will reduce the run-around and enable us to deliver important services in a more timely manner," says Vice Chancellor for Student Affairs Luoluo Hong. Opening is anticipated in 2012. The existing Student Services Building will house the College of Business and Economics.



Mini Mānoa satellite wins award and flight time

Ho'oponopono, a satellite built by UH Mānoa engineering students, has received national honors and a place aboard NASA rockets scheduled to launch in 2011 and 2012. The satellite was designed and built by a 30-member team of electrical and mechanical engineering students mentored by Professor Wayne Shiroma and industry engineers. The team placed third in the nation and earned the Most Improved award in the 2011 University Nanosatellite Program competition held in January in Albuquerque. Mānoa was one of 11 schools selected to compete and awarded a \$110,000 grant from the Air Force Office of Scientific Research.

A CubeSat about the size of a shoebox, *Ho'oponopono* takes its name from the Hawaiian term “to make right.” Its mission is to provide calibration for radar stations around the world. The primary satellite currently performing that function is 30 times larger than the UH model and 16 years past its expected lifespan. The Mānoa team is assisting in ground station tracking of the first CubeSats to be flown in NASA's Educational Launch of Nanosatellites mission early this year.



Read about UH students' role in designing, fabricating and launching satellites and rockets at www.hawaii.edu/malamalama/2011/01/space-flight

Law and orders: professor promotes legal rule in Iraq

Mānoa Adjunct Professor James Pietsch recently received the Secretary of the Army Award for Public Service

for extraordinary contributions as a volunteer with the Law and Order Task Force for Multinational Force–Iraq in Baghdad. A retired Army Reserve officer, he was granted study leave by William S. Richardson School of Law after being invited by U.S. officials to assist with the establishment of the task force during summer 2007.

Hitching a ride to Iraq with elements of the Hawai'i-based 25th Infantry Division, he served as chief of the task force's research, education and training branch. He helped organize a secure complex for judges, prosecutors, defense counsel and prisoners held for trial under Iraqi law. He returned in 2008 to help the U.S. State Department and Iraqi Bar Association establish Iraq's first legal aid clinic for detainees. The structure of the clinic at the Rusafa Detention Facility and its operational manual were based on his experience establishing the UH Elder Law Program. The model is being replicated in other detention facilities in Iraq.

Although Pietsch says he always felt safe, the citation notes that “he willingly subjected himself to the considerable threat present in the operational environment in Baghdad.” It lauds his “passionate commitment to the rule of law and thorough professionalism.”

A U.S. Pacific Command representative who heard Pietsch talk about his experiences in Iraq invited him to assist with rule of law initiatives in the troubled young country of Timor-Leste in 2010. His pro bono work continues through the Hammurabi Legal Forum, www.hammurabilegalforum.com, which allows UH law students to conduct legal research for governmental and non-governmental organizations and law schools in Iraq, Afghanistan and Timor-Leste.

—Kymer-Lee Char



LEEWARD PUBLICATION RETURNS: After a year's absence, *Ka Mana'o* is back as a magazine featuring news and creative work produced by Leeward students. The March issue includes pieces on the campus Filipino Phrase of the Week podcast and retirement of longtime faculty members as well as travel photos, poetry and speeches. Follow the magazine on Facebook at <http://tinyurl.com/4sktwwj> or Twitter http://twitter.com/Ka_Manao.



Gene shown to affect bone growth in mice

Mānoa researchers have made strides in understanding the role of a specific gene in bone formation. When Associate Professor of Animal Sciences Jinzeng Yang and UH colleagues partially depressed the activity of growth differentiation factor 11, or gene GRD11, in mouse eggs, the resulting mice developed extra bone growth and higher bone density on one vertebra. Their paper on the federally funded study was the cover story of the November 2010 issue of *Molecular Reproduction and Development*. Unraveling the gene's role could contribute to development of treatments that prevent osteoporosis and skeletal deformities.

Polynesian colonization was sudden and swift

New research indicates human colonization of Eastern Polynesia took place much faster and more recently than previously thought, Mānoa anthropologist Terry Hunt reports. Polynesian ancestors settled in Samoa around 800 BC, colonized the central Society Islands between AD 1025 and 1120 and dispersed to New Zealand, Hawai'i and Rapa Nui and other locations between AD 1190 and 1290.

Hunt was part of an international team that applied improved radiocarbon dating techniques and equipment to more than 1,400 radiocarbon dates from 47 islands. Their model considers factors such as when a tree died rather than just when the wood was burned and whether seeds were gnawed by rats, which were introduced by humans.

Improved vessels and favorable winds resulting from frequent El Niño conditions probably contributed to the unusually rapid spread to hundreds of islands across an ocean area the size of North America, the team writes in the Feb. 1 *Proceedings of the National Academy of Sciences*. Late and rapid dispersals explain remarkable similarities in artifacts such as fishhooks, adzes and ornaments across the region. The condensed timeframe suggests that assumptions about the rates of linguistic evolution and human impact on pristine island ecosystems also need to be revised.

Hunt first recognized how indiscriminate samples excavated on Rapa Nui (Easter Island) could skew radiocarbon dating results. His summer field schools on the island are featured in the January 2005 issue of *Mālamalama*, available at www.hawaii/malamalama.

Marine reserves spawn distant fish stocks

Larva from fish in marine reserves can replenish fish stocks outside the reserve, reports a Hilo researcher who conducted genetic studies of yellow tang in and around nine protected areas along the Big Island's Kona coast. The reserves were created because populations of the popular aquarium fish have been in decline.



Professor James Beets and mainland colleagues found healthy juveniles that were spawned by parents in protected areas 114 miles away. The study provided the first direct observation that marine reserves can potentially sustain fisheries far beyond their borders, they write in the Dec. 21, 2010, online journal *PLoS One*.

Physicists find penguin decays in Japan collider

The first observation of a new class of rare "penguin decays" of high energy particles called beauty quarks is the topic both of Mānoa student Kurtis Nishimura's doctoral dissertation and his paper published in the Dec. 10, 2010, *Physical Review Letters*. Nishimura and Mānoa faculty and student colleagues analyzed b quarks produced in the Belle experiment at the KEKB particle accelerator in Japan. Now a postdoctoral researcher in the physics department, he continues to be part of the Mānoa team involved in the international collaboration that is continuing with the Belle II upgrade experiment expected to begin in 2014.

Taller ships blow trade wind findings in new direction

Meteorological data from the past 60 years suggested that tropical Atlantic trade winds have grown stronger. That is, until researchers Hiroki Tokinaga and Shang-Ping Xie corrected for a quirk in the observations. Ships that traverse the Atlantic are the primary source of historical wind data. As ships have gotten taller, their anemometers measure wind at correspondingly higher altitudes.

Recalculating the data to adjust for the changes and factoring in observations from other sources, the International Pacific Research Center scientists found that trade winds over the Atlantic have weakened significantly. At the same time, the pattern of ocean surface temperatures has changed, resulting in significantly more rain to the equatorial Amazon and Guinea coast and less rain in the Sahel region of Africa, they report Feb. 6 in *Nature Geoscience* online. In addition, upwelling of cold, nutrient-rich water that supports marine life has declined in the eastern tropical Atlantic.

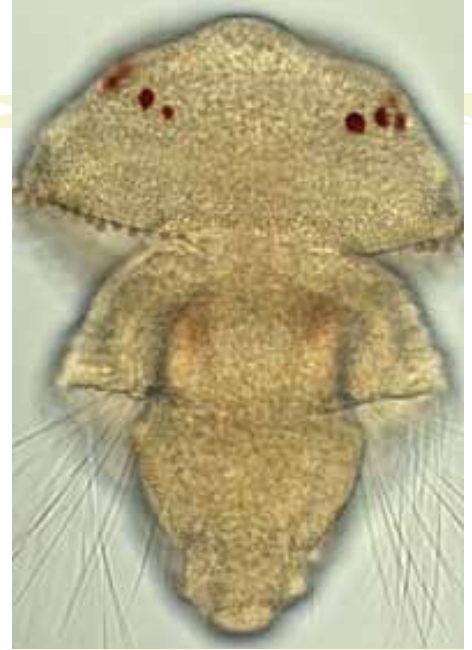
New website tests vog forecasts

Mānoa's School of Ocean and Earth Science and Technology has launched a webpage with the goal of making accurate vog dispersion forecasts for Hawai'i. Vog forms when invisible sulfur dioxide gas emitted by volcanic vents reacts with oxygen and moisture in the air to produce sulfate aerosol haze, which can affect the health of people and plants downwind.

The Vog Measurement and Prediction website attempts to accurately model volcanic gas forecasts and disseminate them for use by the public, health professionals and researchers. It provides a map of current conditions and forecasts for the Big Island and western Hawaiian Islands as well as data tables and an animated loop depicting emission dispersions, color coded for air quality.

Meteorologist Steven Businger is principal investigator on the feasibility study and Roy Huff is the lead modeler. They are working with Mānoa scientists Keith Horton and John Porter and colleagues from the Hawaiian Volcano Observatory and NOAA Air Resources Laboratory. Hawai'i State Civil Defense, Hawai'i Department of Health and the National Park Service are also supporting the project. A work in progress, the vog model will undergo continued improvements over the coming months.

View the site at <http://weather.hawaii.edu/vmap/index.cgi>.



Brachiopod cells may show how human eye evolved

Scientists at Mānoa's Kewalo Marine Laboratory have identified two distinct groups of cells in a marine invertebrate that are like the ciliary photoreceptors responsible for light detection in the human eye.

In the swimming larvae of brachiopods, an ancient group of invertebrate animals, these neural cells are part of a simple two-cell eye that can detect the direction of light and help control the behavior of the animal. One eye cell contains a lens to collect light; the other, pigments to block light coming from behind the eye. Surprisingly, genes responsible for ciliary photoreception occur at very early stages of embryonic development, before neurons are even formed. Despite the simplicity of the embryos at these stages, they are able to move toward light.

This discovery can serve as a model for the earliest stages in the evolution of the complex human eye, Postdoctoral Researcher Yale Passamaneck and Kewalo Director Mark Martindale write in the March 1 online journal *EvoDevo*.



New spider species found

Researchers have identified two new endemic Hawai'i spiders—the *Argyrodes ilipoepoe* on Kaua'i and *A. laha* on O'ahu, Moloka'i and Maui. The third Hawaiian member of that genus, *A. hawaiiensis*, was found previously on the Big Island. All three species are kleptoparasitic, dining on prey caught in webs built by other spiders. Their restaurant of choice: the sheet web of the large nocturnal *Orsonwelles* spider, says Mānoa zoologist Malia Rivera. As many as 60 have been found on the upper scaffolding of a web while the host *Orsonwelles* hangs beneath. Their dependence on the endemic host spider for meals may explain why the genus has not diversified like the 10 free-living endemic *Ariamnes* spider species earlier identified by Rivera and former UH colleague Rosemary Gillespie. Characterized by their small rounded abdomens and variably long fangs, the tiny *Argyrodes* spiders were identified using dissecting and scanning electron microscopes and camera lucida.

Invasive species news

Research recently reported in the journal *Pacific Science* (University of Hawai'i Press) includes these findings:

- * Like rings in tree trunks, cementum lines in teeth appear to provide relatively accurate age estimates for mouflon sheep in Hawai'i Volcanoes National Park. Understanding the population dynamics is important in formulating strategies to control the sheep, first introduced as game animals in 1954, Tommy Thompson of Hilo's Pacific Aquaculture and Coastal Resource Center and his coauthors write. (January 2011)



- * Heat from fire kills exposed fountain grass seeds, Mānoa botanists Edith Adkins, Donald Drake and a U.S. Forest Service colleague demonstrated in field and laboratory tests. Prescribed burns could provide a useful tool in controlling the invasive plant in degraded areas if coupled with other control measures to remove regenerating stems, they conclude. (January 2011)



- * *Prosopis pallida*, commonly known as kiawe or mesquite, has been a source of cattle feed, honey, charcoal, durable fence posts, even furniture and an emulsion gum since first planted in Hawai'i in 1828. The shrubby, thorny, quickly spreading *P. juliflora* species, which arrived 150 years later, is considered a noxious weed. *Prosopis* can rehabilitate degraded soils and restore deforested lands, but may also lower water tables and prevent native species from becoming reestablished. Mānoa botany graduate student Timothy Gallaher and Professor Mark Merlin suggest that a balance between population control and sustainable use may solve this kiawe conundrum. (October 2010)

Recent research grants

- * The College of Tropical Agriculture and Human Resources will use a \$6-million U.S. Department of Energy grant to develop high-yielding, economically viable feedstocks for sustainable production of biofuel for local transportation.
- * The Mānoa Department of Botany will use a \$1.4-million National Science Foundation grant to develop a Consortium of Pacific Herbaria in collaboration with the Bernice P. Bishop Museum and National Tropical Botanical Garden that will digitally image nearly a million Pacific Basin plant specimens.
- * Harold L. Lyon Arboretum will use a pledge of \$600,000 from the Hau'oli Mau Loa Foundation for capital improvements to the Micropropagation Lab, which maintains and propagates endangered native plants for restoration projects.
- * The Water Resources Research Center will use a \$500,000 U.S. Department of Agriculture grant to study edible plants' uptake of pharmaceutical compounds typically found in treated wastewater.



For teams, neighbor islands are home away from home

by Stanley Lee

UH Mānoa Athletic Director Jim Donovan retells the story of a 5-year-old Maui boy who saw the Warrior basketball team warming up before its game on the Valley Isle last December. The boy's eyes grew wide, rivaling the kind of wonder that strikes children when they first set foot in Disneyland. "For them, this is bigger than life," says Donovan. "When we can impact those young people's lives and make them feel like we're Hawai'i's team, it's all worth it."

Neighbor island fans can expect to see more UH teams in person, he pledges. "I really feel we're the state's team, but we're located on O'ahu. It's up to us to get teams to the neighbor islands and play." At press time, plans were being finalized for a neighbor island football spring practice. When the Warriors held practices on Maui and Kaua'i the past two years, autograph sessions with fans lasted for hours. A softball clinic featuring Rainbow Wahine and UH Hilo Vulcan teams and a neighbor island trip for women's soccer are also being discussed.

Since it's not often feasible for neighbor island fans to travel to O'ahu for games, such visits add a personal element to following the teams on television, radio or the Internet, Donovan says.

UH teams big and small, from men's basketball to men's golf and women's tennis, have played on the neighbor islands. Last December, men's basketball returned to Maui for the first time in seven years, blowing past Chicago State before an energetic crowd in Lahaina

Civic Center. The Rainbow Wahine hosted its 2010 basketball shoot-out tournament in Hilo, opening against nationally ranked UCLA in Afook-Chinen Civic Auditorium. This February, men's volleyball played California Baptist before a capacity crowd in Wailuku.

"It's great. Everyone at War Memorial Gym was fantastic. You could tell they were appreciative," recalls Coach Charlie Wade. "We appreciate the support from neighbor island fans, State Sen. Shan Tsutsui and Maui Mayor Alan

"Everyone at War Memorial Gym was fantastic. You could tell they were appreciative."

Arakawa. It was a great night for me and the team." Tsutsui, who represents central Maui, had told Donovan years ago that team visits would mean a lot to neighbor island fans. The key to making it happen is partnerships, the athletic director says. Hawaiian Airlines has sponsored football team trips to neighbor islands and the men's volleyball



photos by Amanda Cowan for The Maui News

trip to Maui. Neighbor island travel expenses are pretty nominal for men's basketball, but can take a big bite out of smaller sports' budgets.

Still, such trips allow more student athletes to play in front of their own home crowds. Nearly every UH team fields neighbor islanders, often in vital roles. The football squad had about a dozen last season, including safety Mana Silva (Big Island) and defensive linemen Kaniela Tuipulotu (Maui) and Kamalu Umu (Kaua'i). T.J. Kua (Kaua'i), named Western Athletic Conference Golfer of the Week earlier this season, and four of his teammates are from the neighbor islands. So is Rainbow Wahine basketball player Keisha Kanekoa, who etched herself into the program's record books by surpassing 1,000 career points this season. Her matches "at home" on the Big Island drew big crowds. Kamehameha Schools-Maui graduate Kala'e Camarillo had to find more than 40 tickets for extended family when men's volleyball played on Maui. The Kihei setter got some court time and joined his team in hosting a clinic at Baldwin High School the next morning.

"The trip was a success in so many different ways," says Wade. 🍌

Stanley Lee (MEd in educational administration '10 Mānoa) is a Honolulu-based freelance writer and advisor of Leeward Community College's student publication *Ka Mana'o*



Aquaponics uses old wisdom in a new way to grow food sustainably

by Cheryl Ernst

The New Fish Pond

Clyde Tamaru stands on a small rise, dense trees and the verdant Windward face of the Ko'olau range behind. He looks across a grassy area dotted with round water tanks of various construction, rows of raised plant beds, a small garden shed and, off to the right, a taro lo'i, all part of an aquaponics research and demonstration facility tucked at the back of Windward Community College. "This is our ahupua'a," the Mānoa College of Tropical Agriculture and Human Resources extension specialist says with evident pleasure. The Hawaiian mountain-to-sea land division—and the sustainable ecosystem of food resources that it represents—is modeled here in an area perhaps half the size of a football field. CTAHR staff has use of the grounds in exchange for teaching a Windward course.

Aquaponics combines aquaculture (raising aquatic animals) with hydroponics (growing plants in water).

Tamaru's goal is to develop a modern closed, self-sustaining system that can produce food independent of imported feed, fertilizer and energy. His mantra: "Pretend the boat never comes," a reference to Hawai'i's dependence on shipped goods.

Behind Tamaru, several conical gray plastic containers are set on poles in the ground, looking like odd knee-high mushrooms. Inside, soldier fly larvae chomp through piles of an invasive species of tilapia removed from a nearby lake. They'll dine on cafeteria waste with equal fervor. When sated, mature grubs crawl up a ramp and fall into a collection bin, ready-to-serve fish food for the fish being cultured—ironically, a commercial variety of tilapia. Tamaru keeps brood stock of three varieties

College of Tropical Agriculture and Human Resources Extension Specialist Clyde Tamaru tests self-sustaining systems that combine aquaculture fish and hydroponic plants at his outdoor lab and community sites



in a half-dozen round aboveground tanks ranging from plastic-lined home-built forms to prefabricated models. Some of the occupants move to smaller tanks that are part of the aquaponic system.

Water from the fish tank is pumped through filters—where bacteria convert the ammonia from the fish waste into nitrates, which plants need—and into the plant beds. In some beds, lettuce grows in plugs suspended from foam sheets that float on the water's surface. In others, a variety of plants grow from a cinder bed as water alternately rises to the root line and drains, now clean, back to the fish tank.

Green waste from unused plants is composted in the Waikīkī Worm Company's half-barrel worm bins near by. "A mix of the vermicast casings with chicken or turkey manure contains all the micronutrients plants need to grow—potassium, iron, manganese, phosphate, calcium," Tamaru says. Blended with peat moss or coconut coir, it makes an ideal organic medium for growing seedlings. "Give credit to those red worms, I tell you! That's one big part of the puzzle solved."

A remaining piece is the energy required to run the bilge pump that moves the water. "That's the big bottleneck," Tamaru says. He uses solar panels. They have a 30-year lifespan, but they are pricey and still require imported materials. "Solar is good, but it has limits. It takes two 3- by 5-foot panels to run one bilge pump."

For Fred Lau, a landscape contractor who has dedicated one acre at his Mililani nursery to a commercial aquaponics venture, the photovoltaic investment alone represents a \$150,000 cost. So why pursue the project? "This is definitely the most sustainable way of farming I know of," he says. "We can't keep doing things the conventional way." Particularly in the face of the rising fuel charges on food and materials shipped to the islands. Long interested in water conserving landscape practices, he saw aquaculture as a way to get a second use of the water running to the plants at Mari's Gardens, his 18-acre nursery. He met Tamaru while "scavenging" for fish fry. "He's the only person who really helped us," coming by on weekends and bringing in other experts from the College of Tropical Agriculture and Human Resources and the Department of Agriculture. Lau was able to get some grant funding to help set up the prototype and test plant varieties.

"I'm growing everything I like to eat—Mānoa lettuce, heirloom tomatoes, Japanese cucumber, green onions, Chinese parsley and beets, a bunch of different kinds."



Landscaper Fred Lau has dedicated an acre of his Mililani nursery to see if closed aquaponic systems, like the demonstration table pictured, are a commercially viable way to produce food

The early question of whether aquaponic crops would taste fishy was soon put to rest, he says. The continuing question is economic viability. Lau sells to health food stores and at some farmers' markets. He's looking at a likely two-year return on investment. "For me, that's a little slow, but I hear two to three years is typical."

Aquaponics can also be a human investment. Tamaru works with staff at the Hawai'i State Hospital next door who adopted aquaponics as part of their occupational therapy work program. About a year ago, staff members and patients assembled three aquaponic modules on an old, outdoor basketball court. Each consists of a fish tank, a cinder bed filter and two floating rafts, all supported on tables. "It was like building an erector set," says occupational therapist Judy Dacanay. Patients in the work program learn important skills—being on time, collaborating, accepting direction—while maintaining the system. It helped that one patient was a plumber. Each Tuesday, they harvest about 5–15 pounds of lettuce and green onions, which goes into salads and sandwiches served at the facility.

Tamaru is also working with the state Department of Hawaiian Home Lands on its Wai'anae Valley homestead project and God's Country Waimānalo Homestead Association. The Kaupuni project in Wai'anae incorpo-

Continued on page 26

Bowing Out

Theatre professors retire at Windward and Leeward

by Lowell Angell



Windward's Ben Moffat

Two UH Community Colleges lose longtime, valued theatre faculty this spring—Ben Moffat at Windward and Paul Cravath at Leeward. Both are UH alumni with more than two decades on staff. They reflected recently on their careers and programs.

Ben Moffat: man of masks and monkeys

Professor of Theatre and Chair of Humanities Moffat is proudest of the impact he's had on individual students' lives. Originally from Palo Alto, Calif., he graduated from Vassar College and received his MFA in direction and Asian theatre at Mānoa. He was part of the Mānoa program's 1986 Beijing opera tour of the People's Republic of China and recently completed the initiation course at the London International School of Performing Arts. Since joining Windward as a part-time lecturer in 1987, he built the program from 50–60 students a year to 200, and from four intermittent courses to a fulltime program, earning a UH Regents' Medal for Excellence in Teaching. Interested in storytelling using physical theatre, he teaches the introduction course and acting, mask making and production. He also produces and directs shows and helps manage the theatre.

The Windward program dramatically (no pun intended) expanded with the opening of Palikū Theatre in 2002. "We hold classes there as often as 20 times a semester," he says. "Our students are given two tickets to shows, so they can experience productions first-hand." He helped recruit respected drama teacher Ron Bright, who had retired after 50 years of directing the drama program at nearby Castle High School, and brings in community groups such as Windward Theatre Guild, The Actors Group, Kumu Kahua, Honolulu Theatre for Youth, 'Ōhi'a Productions, Loose Screws and Kalāheo High School.

With Monkey Waterfall Dance Theatre co-artistic director Yukie Shiroma, Moffat has performed around the world, from Spain to Singapore. He leaves Windward this summer for new opportunities, but plans to spend seven months a year performing, writing and doing workshops in Hawai‘i.

Paul Cravath: scholar, actor, producer


Professor of Drama Cravath arrived in 1971, Tulane MFA in hand, eager to study Asian theatre. He received his PhD from Mānoa in 1985 and joined Leeward’s faculty three years later. He has done research in Bangkok; studied the Indian film industry and aesthetics; and explored ancient Japanese literature, Mandarin Chinese and Khmer. His 2008 book *Earth in Flower: The Divine Mystery of the Cambodian Dance Drama* is considered to be the definitive study on the subject in English.

The sense of space and the precision of Asian theatre have greatly influenced his aesthetic and teaching viewpoint, Cravath says. He first directed Hawaiian-style theatre productions, working with kumu hula Victoria Holt Takamine on *Mānoa* and Leeward trilogy *Wai‘anae*, *Nānākuli* and *For ‘Ewa*. He later directed world literature classics, viewing works by the likes of Ovid through a modern looking glass, and commissioned original scripts. But he says his greatest accomplishment was put-

ting at least 100 students on stage every year. “They are here to get experience, and I try to give it to them.” That means teaching nine classes each year, taking scores of students to see performances every semester, producing the annual 10-Minute Play Festival to present the work of student directors and publicizing the work of former students.

Cravath also directs and acts. He spent three summers with the Utah Shakespearean Festival and two years with the Hawai‘i Theater Festival. He has served on the boards of Friends of Kennedy Theatre, Kumu Kahua Theatre and Iona Pear Dance Theatre and as president of Friends of Buddhism. He retires to Minnesota, confident in Leeward’s continued success. “In the Buddhist view, we are all here for a time, then we move on,” he says. “We contribute as best we can.”

More history: See UH archivist Jim Cartwright’s online exhibition *Drama at the University of Hawai‘i: The Early Years*—documents and photographs from Hamilton Library’s extensive collection, including a complete list of plays from 1912 to World War II—at http://library.manoa.hawaii.edu/about/exhibits/centennial_arc/drama/index.html.

 **Web extra:** Take a video tour of some historic local university and community theatres narrated by UH Community Relations Specialist Lowell Angell (BA ‘69, MA ‘72 Mānoa). Author of *Theatres of Hawai‘i*, Angell was co-founder and president of Hawai‘i Theatre Center and on the board of Hilo’s Friends of the Palace Theater and Honolulu’s Friends of the Queen Theater. He is past-president of Theatre Historical Society of America.



Leeward’s Paul Cravath



Down on the Pharm

An ambitious college graduates its first pharmacists in Hilo

by John Burnett

In the few years since Sen. Daniel Inouye announced his idea for a College of Pharmacy at UH Hilo and earmarked money for that purpose, the school has seen an explosion in interest from prospective students, growth in research initiatives, approval of new undergraduate and doctoral degrees, establishment of a residency program, formation of Pacific partnerships and completion of plans for a permanent facility. On May 14 the college will celebrate a major landmark, awarding the doctor of pharmacy (PharmD) to its first class of 84 graduates.

“It’s not like the students were coming into a 100-year-old program where there is a certain amount of expectation,” says Dean

John Pezzuto. “This first class really worked with us to get us to where we’re at, so we’re really proud of that.”

Pezzuto knows something of tradition. He was previously dean at the Purdue University College of Pharmacy. Founded in 1884, it is one of the nation’s top five pharmacy schools. Visiting UH Hilo as a consultant, he was lured by the potential to create a great school to serve Hawai‘i and the Pacific and signed on for a different kind of experience.

“The first year, I pretty much worked out of my car. It became a joke, but it was fairly true,” he says. “We had a couple offices rented in a USDA building, and that was it.” He quickly set about recruiting faculty and staff, finding additional

space and securing accreditation from the Accreditation Council for Pharmacy Education. “I had confidence from the beginning that everything would be fine, and a lot of people shared that confidence, but ACPE wasn’t one of them, I found out later,” he recalls. Students in the inaugural class received letters stating their acceptance was conditional upon accreditation for the college.

The school is on track to receive full accreditation this year. Pezzuto, characteristically, is looking beyond. His goal is to become a top-25 pharmacy college nationally. The timeline is a moving target, he says, but the objective could be met in 5–10 years.

In addition to the former USDA offices, the college has facilities at the University of Hawai‘i’s former Waiākea Research Station and two

modular buildings on the Hilo campus equipped with \$2.5 million in state-of-the-art equipment that serve as research laboratories. Construction of a permanent facility will require an estimated \$66 million; when it's built "depends on the Legislature and fundraising," Pezzuto says. "The plans are absolutely spectacular. The site is selected. We could break ground in August if we line up the financing. Hopefully, the Legislature will be good to us."

The college boasts nearly 100 faculty and staff and a student body of 350. "It's all moving ahead at a good pace. But it's a very competitive environment, so we have to do our best to compete for extramural funding," Pezzuto says.

The student body is about half Hawai'i residents. Non-resident students hail from 30 states, plus Guam, American Samoa, Japan, Korea and Africa. "I don't think there's any other college of pharmacy with that sort of diversity," the dean says.

Born in Manila, fourth-year student Paul Narciso came to the United States as a child and graduated from

California State University-Northridge with a BA in biology and a minor in economics. The 34-year-old surfer had to learn to be more self-reliant being away from family. He and other students have spent their final year performing rotations, which include assisting faculty in research and teaching,

The college is on track for full accreditation this year

plus training in local hospitals and community pharmacies.

"We're trying to develop an iTouch pharmacy application for first-year students so they can learn the top 200 pharmaceuticals," he says. "That will help when they go into the pharmacy, because then they'll know something about what each medication is for."

The college admits 90 students a year. About 1,200 people express interest, up from about 400 the first year. In February, the UH Board of Regents approved two new degrees. The bachelor of arts in pharmacy studies (BAPS) allows students who have met pre-pharmacy requirements but not yet earned a baccalaureate degree to receive it as they progress toward the professional PharmD. "That's added value for the program. It will make our program even more attractive to applicants," Pezzuto says.

The new doctorate in pharmaceutical sciences, geared for students interested in becoming academics and scientists, is expected to serve about 50 students. "The PhD program will help us build our research and development," Pezzuto says.

The research program is also growing quickly, with each faculty member doing projects. Pezzuto started a natural products program with support from the National Cancer Institute. "We have people working on malaria, people synthesizing drugs to beat tuberculosis. We have other people working on cardiotoxicity and how to avoid it."

Hilo is a partner with Mānoa in the National Institutes of Health program called INBRE (IDeA Network of Biomedical Research


Excellence), which brings about \$1 million dollars here each year, putting pharmacy investigators on the fast track, he says. And the largest grant so far—a three-year \$16.1 million Beacon Community Grant from the U.S. Department of Health



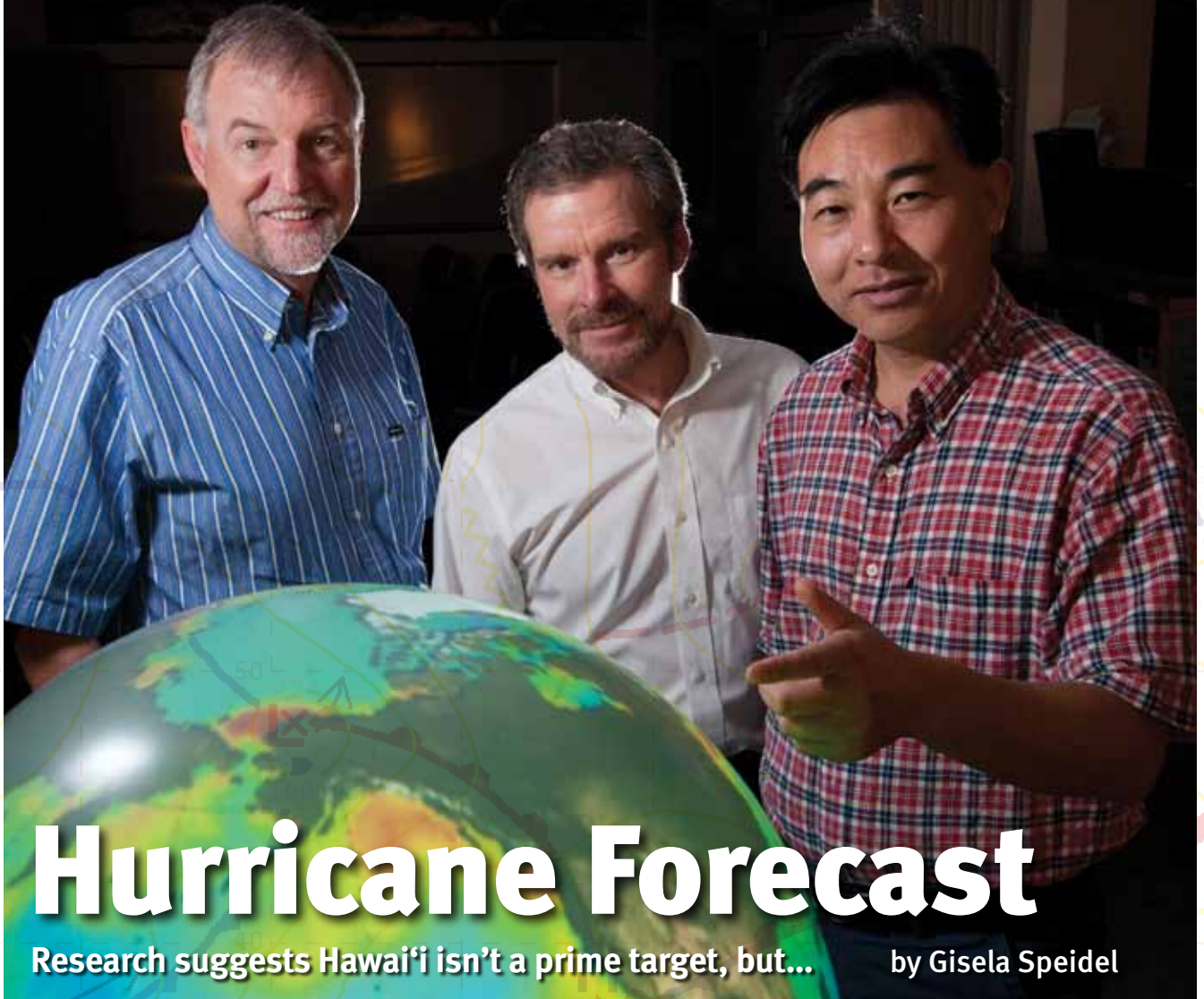
Rovigel "Jill" Gelviro does a glucose check; fellow class of 2011 students, left

and Human Services—will improve healthcare services through high-technology platforms. Principal investigator for the grant is Karen Pellegrin, the pharmacy college's director of strategic planning.

"That will create an electronic medical record for the Island of Hawai'i, using the Big Island as a model for the country," Pezzuto says.

The school is also creating a pharmacy residency program based on Maui that will boost rural healthcare. Because, after all, the college was created to extend educational opportunities to and train workers for Hawai'i's communities. 

John Burnett (AA '81 Leeward, BA '94 Hilo, MEd '00 Mānoa) is a staff writer for the *Hawai'i Tribune-Herald* in Hilo



Hurricane Forecast

Research suggests Hawai'i isn't a prime target, but...

by Gisela Speidel

It is Aug. 18, 1992. Halfway around the globe from Hawai'i, a disturbance in the atmosphere appears to leave the coast of Africa. Tracked for several days across South and Central America, it arrives in the Pacific on Aug. 28. Continuing westward, it morphs into a tropical depression on Sept. 5 and, three days later, into a bona fide tropical storm dubbed 'Iniki, Hawaiian for "strong wind." Living up to its name, it intensifies into a hurricane packing Category 2 winds and continues westward south of the Big Island. Steadily powering up, 'Iniki turns into a Category 4 hurricane on Sept. 10 and takes a sharply northward turn. That evening, hurricane warnings are issued for O'ahu and Kaua'i. Early on Sept. 11, 'Iniki turns northeast and blasts Kaua'i with gusts up to 175 mph, causing \$2–\$3 billion in damage.

It had been just 10 years since Hurricane 'Iwa wreaked severe damage on Kaua'i. But in the 18 years since 'Iniki, no hurricane has struck Hawai'i, despite formation of seven to eight hurricanes a year in the eastern and central Pacific. Are we lucky? Or overdue? Meteorology professors at UH Mānoa for once agree: Hawai'i's climate doesn't make it a frequent

hurricane target...for now.

"Hurricanes form around the Baja Peninsula in the eastern Pacific when it has the right ingredients—warm water at least 100 feet deep (so that strong winds don't bring up cool water from below), a low pressure system with surface flows that make the winds converge and spin, wind shear that's too weak to tear the storm apart and a moist atmosphere where surface air rises high and forms deep convective clouds," explains Gary Barnes. From the eastern Pacific, a hurricane would take about 10 days to reach Hawai'i; it tends to collapse before it gets within a few hundred miles of the Big Island. "Once tropical cyclones move into the trade winds, they grow smaller because the shallow layer of moisture over Hawai'i is unfavorable for storms to intensify," adds Yuqing Wang.

Why did 'Iniki and 'Iwa make it? Unusual disturbances to the west steered the storms north toward Hawai'i, recalls Steven Businger. Barnes explains: "'Iwa and 'Iniki formed during an El Niño, when westerlies often replace the trades" providing more background spin, or rotation, to the winds.

The Holy Grail

These three scientists work to provide information that will improve hurricane forecast models, the computer programs that use mathematical equations to represent the “engine” driving storms. The models are still far from perfect. Research is hampered by a scarcity of open-ocean observations needed to simulate a hurricane. Since hurricanes originate far from weather stations, forecasters must rely on satellites and reconnaissance aircraft. But satellite data lack details on weather conditions. Costly, dangerous flights into storms yield only brief sampling. And ships, an important source of weather data, do everything they can to avoid hurricanes.

“To help see what’s going on, forecasters plug a bogus cyclone into their model,” explains Barnes. “Then they guess at a lot—the wind field of the storm, the upper level winds, wind shear, sea surface and air temperatures and especially humidity. When hurricanes get close to Hawai‘i, NOAA sends out reconnaissance aircraft, like they did for Hurricane Felicia in 2009.”

“We have good skill in predicting cyclone tracks up to a week,” notes Wang. “But there’s been no significant improvement in the past 30 years in predicting intensity.” Cutting-edge research deals with how a cluster of disorganized thunderstorms quickly grows into an organized tropical cyclone with spiral rainbands, an eyewall and hugely destructive winds and rainfall. “A big unsolved problem is whether we can simulate and predict intensity changes. That’s the Holy Grail of hurricane research now,” says Businger.

Observers and modelers

Barnes, the observationalist, has been flying into the eyewall of hurricanes with NOAA hurricane hunters for more than 20 years. “Hurricanes must acquire energy from the sea to create a strong updraft of warm moist air,” he says. This energy is collected in the 500-meter-thick layer of atmosphere just above the sea. He wants to identify when the warm core first forms and what energy changes occur to turn a storm into a hurricane with high and dangerous winds.

After flying a “figure 4” through the storm to find the center, aircraft jettison sensors to record temperature, relative humidity, wind speed, wind direction, ocean-wave size, even images of rain drops. GPS dropsondes take accurate measurements twice a second until plunging in the ocean. Although superior to older, less sturdy windsondes, they provide only limited sampling. “It’s like making a few slices with a knife through a huge storm,” Barnes says.

His best observations came from Hurricane Humberto in 2001. NOAA and NASA had four to five planes in the storm over three days. More than 200 sondes were deployed. “We got to sample the pressure when the beast was just forming.

We have fields (observations) that no one has yet seen, and they show something unexpected and disturbing: a hurricane forms when a plug of warm air reduces air pressure in the eye and the eyewall. Maximum warming appears to occur much closer to the ocean surface than we expected.”

Businger combines observational research and modeling to understand how hurricanes form and gain energy. He examines small-scale structures called vortex rolls that influence energy exchange between the sea surface and the hurricane, ultimately impacting how destructive a storm is. He has spotted vortex rolls in Doppler radar data but needs more solid observations. Since dropsondes plummet straight into the ocean, Businger is working with NOAA to build balloons that can gather more information. Made of the same sturdy material as bulletproof vests, these smart balloons will carry meteorological instruments, he says. “We can communicate remotely with the balloon and can keep it in the layer we want to study.”

Wang has a joint appointment with the International Pacific Research Center, which specializes in climate research using computer models. The three-dimensional tropical cyclone model he first developed more than 15 years ago represents a laboratory under ideal conditions. “Nature is so complicated; you see the phenomena, but you don’t know which parts are important,” he says. In the model, researchers can isolate and control different physical processes.

For example, using the environmental conditions during Hurricane Katrina, his model generated a second eyewall. Formation of a new eyewall outside the first signals a very intense storm. As in real-life Katrina, Wang’s second eyewall moved inward and replaced the inner eyewall. By running the model under different conditions, he determined that increasing humidity helped trigger the second eyewall.

“In the western tropical Pacific there’s a lot of moisture in the air. That explains why typhoons in the western Pacific usually start out as large storms,” he concludes. The largest and most intense ever, Typhoon Tip in 1979, had rainbands more than 1,300 miles across. Atlantic storms tend to be smaller because they start out as ‘lniki did, as easterly waves off the African coast near the Sahara, where the atmosphere is dry.”

Better forecasting

Wang’s findings, like Businger’s, help improve operational forecasts. For example, in the Weather Research and Forecasting Model prediction system, storms quickly grow too large, generating hurricanes too often. “Our research suggests this is partly because the initial disturbance, the bogus cyclone, put into the model is too large,” he says.

While on Wang’s research team as a postdoctoral fellow, Yokohama National University Associate Professor Hironori Fudeyasu analyzed results of a new computer model that for

the first time showed tropical storm systems over the whole globe. Called NICAM, the new model began with weather conditions on Dec. 15, 2006. Two weeks later, NICAM was generating a disturbance that grew into a tropical storm on nearly the same day and took the same track as an actual tropical storm that developed over the eastern Indian Ocean and drenched northwestern Australia. A first in long-term hurricane “hindcasting” simulation, it yielded a lot of information about the conditions under which tropical cyclones form, intensify and weaken. A major atmospheric disturbance, the Madden-Julian Oscillation, supplied the right ingredients for a group of thunderstorms, called hot towers, to merge and form the tropical cyclone’s eye. The idea that hot tower mergers signal the origin of a powerful storm had been proposed 50 years prior, but has been difficult to test.

A new project of Businger’s may provide additional evidence. “When there is lightning it usually rains, and when it rains, heat is left in the atmosphere and becomes a source of energy for hurricanes,” he explains. To test whether lightning rate could tell us whether a hurricane might form and when it might intensify, he recently set up the Pacific Longrange Lightning Detection Network in collaboration with a private high-tech company and with funding from the Office of Naval Research to collect lightning data over the ocean.

Global warming

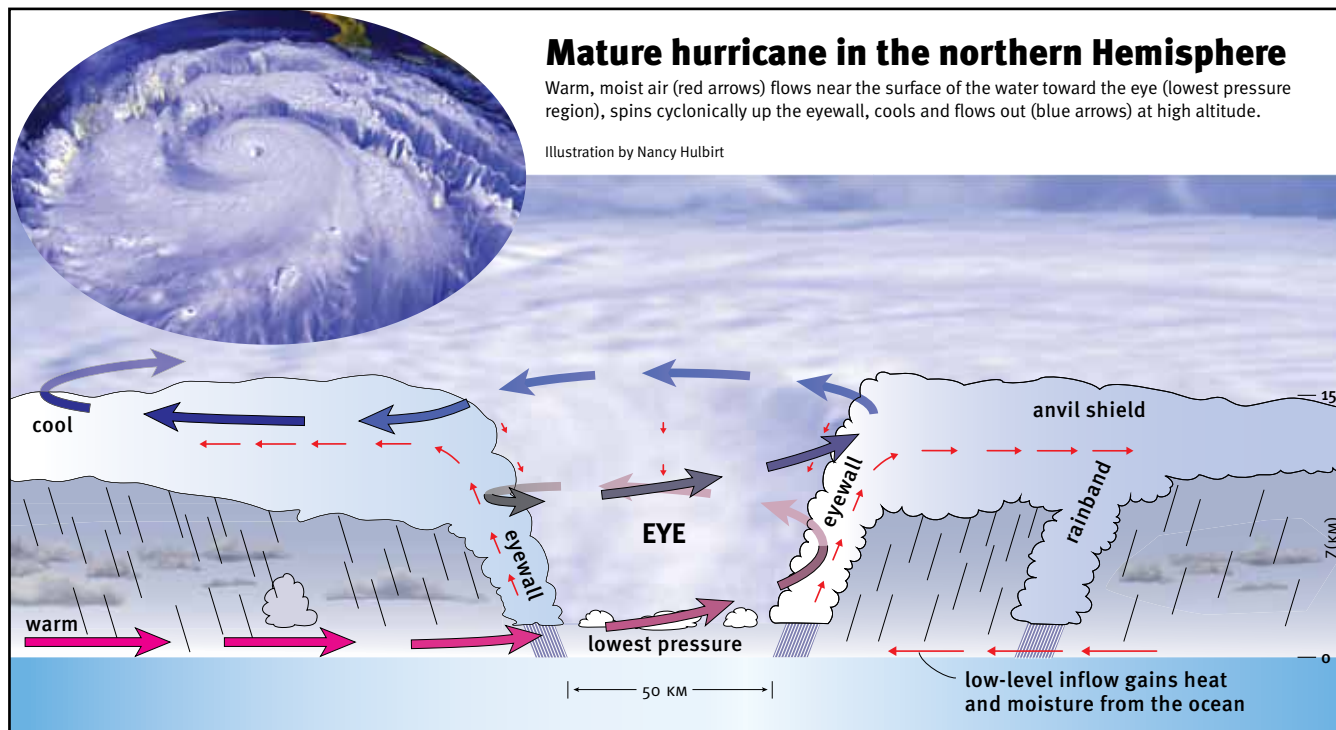
Tropical cyclones need surface ocean temperatures around 80°F or higher to fuel their whirling engine. So what happens if climate change causes sea temperatures to rise?

Running Wang’s model under a global warming scenario, IPRC postdoctoral fellow Markus Stowasser, Wang and IPRC Director Kevin Hamilton found that tropical cyclones in the western North Pacific did not become more frequent, but did become more intense, with higher wind speeds and heavier rainfall. The findings jibe with the Intergovernmental Panel on Climate Change’s 2007 report.

IPRC scientist and Mānoa meteorologist Bin Wang is a well-known monsoon and climate modeling expert. His work suggests that, while the frequency of the most intense tropical cyclones in the western Pacific, the super typhoons, hasn’t changed over the past 40 years, changes in ocean temperatures and winds due to global warming will cause a shift by the end of the century; fewer typhoons will originate in the western Pacific, more in the eastern North Pacific. Fellow IPRC expert and Mānoa Professor Tim Li finds a similar eastward shift. His modeling study suggests the frequency of tropical cyclones will decrease over the western North Pacific but increase over the central North Pacific, in part due to weakening tradewinds. Should the models be correct, more hurricanes will blast Hawai’i if Earth continues to warm.

Will we be able to predict hurricane structure and intensity one day? Businger isn’t convinced, but Barnes anticipates making measurable progress within 20 years. “I say we can do it one day,” maintains Yuqing Wang. “Everything in science is incremental, knowledge and skill, model and forecasting. Not suddenly, but gradually, one day.”

Gisela Speidel (PhD ’72 Mānoa) is the outreach specialist for the International Pacific Research Center at UH Mānoa





O'ahu satellites extend nurse training education

by Cheryl Ernst

Less than two years since it launched, a satellite nursing program is proving to be an out-of-this-world success. The Nurse Education Satellite Program run by Kapi'olani Community College brings practical and associate degree nursing to students on O'ahu's Windward side and Leeward coast. The first cohort of practical nursing students at Windward Community College earned Kapi'olani certification in December 2010. The inaugural cohort of associate in science in nursing students at Leeward Community College will graduate in fall 2011.

"Our mission is to provide access," says Kapi'olani Department of Nursing Chair May Kealoha. Making it happen was a group effort. Former Windward Chancellor Angela Meixell struck a deal with Kapi'olani Chancellor Leon Richards—she would provide classroom and office space if he would send equipment and faculty. The UH Community Colleges system office chipped in with funds to renovate the room. Kapi'olani faculty agreed to juggle schedules and go on the road, even hauling practice mannequins back and forth, to keep classes running at both locations. Accrediting agencies signed off on the plan.

"We revised the whole curriculum so that the prerequisites in the Practical Nursing Program count toward the


associate degree," Kealoha says. After completing the Practical Nursing Program and obtaining an LPN license, students can pursue an associate degree program and complete their RN coursework in three additional semesters. To date, all the students who have taken the licensing exam have passed. Some are working, some planning to continue their studies. "It's a career ladder," she explains. Windward offers the Certified Nurse's Aide Program, which prepares graduates with fundamentals to assist in healthcare settings. Those students can move into Kapi'olani's 11-month practical nursing satellite program, then prepare for licensure examination and work in care homes and clinics.

The curriculum supports a nursing career ladder

The next rung is the associate of science in nursing, which prepares students to become registered nurses and pass the RN licensure examinations. They then work in entry level nursing positions. The Kapi'olani AS program is now available at Leeward Community College. "They had to build a building for us. They call it a portable, but it's really beautiful, with hospital beds, curtains, storage and

a simulation lab where students will be able to practice skills on a training mannequin," she enthuses.

Students at all three locations participate in clinical placements to gain hospital experiences and benefit from onsite counseling to work through financial aid needs, academic difficulties or other problems that could derail their progress. Kealoha recalls watching one student in the Windward cohort survive bumps in the road. "A single parent working in a hospital while going to school and caring for her child, she was so grateful that she could run down the street to do what she needed to do and return to campus," Kealoha says.

Windward has the highest percentage of Native Hawaiians among the student population of any UH campus, she notes. Leeward represents an educationally underserved region. So both satellites create opportunities for those underrepresented in healthcare professions. "We want to open doors from Waimānalo to Lā'ie and in Wai'anae," she says. "This is an effort to improve the community through education." 

For a complete list of UH nursing programs, enter "nursing" at www.hawaii.edu/academics/degrees; for information on the Certified Nurse's Aide program, see <http://windward.hawaii.edu/CNA/>

Cheryl Ernst is *Mālamalama* editor and creative services director in External Affairs and University Relations



Generous gifts stem from humble origins

by Jeela Ongley

For every high-profile, publicly lauded charitable contribution there is a low-key donor quietly changing lives. Meet three such unassuming heroes—grounds-keeper, hotel maid and sewage plant employee—who together gave more than \$2 million to the University of Hawai'i.



photo by Chelsea Specht

Sowing the seeds

Raymond Baker, bottom left, worked the grounds at UH Mānoa's Lyon Arboretum for 38 years. Some say he made a greater impact than anyone since namesake Harold Lyon. Baker attended Mānoa as a Vietnam veteran, drawing out his graduate studies in order to hang on to a much-loved student job at the arboretum until a position as research associate arose. Though he never completed his degree, he gained international recognition for his expertise in palms, gingers and heliconias. Dressed in fatigues or rugged safari-style work clothes, often carrying a machete and always sporting his signature white mustache, Baker cut an unmistakable figure.

In 2005 he was diagnosed with pulmonary fibrosis, a serious lung disease with dire consequences. Before his death in 2010 he married Joyce, his partner of 30 years, and established the Raymond F. Baker Fund for Grounds and Living Collections. His \$50,000 gift is the first specifically dedicated for maintenance of Lyon Arboretum's diverse collections, providing work force and tools to get the job done, rain or shine.

More on the arboretum at www.hawaii.edu/lyonarboretum; donate toward immediate needs at www.uhfoundation.org/RayBaker or an endowment at www.uhfoundation.org/RayBakerEndowed.

Fighting ovarian cancer

Born in Germany in 1927, Anneliese Lerman, top left, survived the turmoil of World War II and left the country arm in arm with an American G.I. headed home to Hawai'i. They eventually divorced, but her career blossomed. Lerman rose through the hotel ranks from maid to director of housekeeping, supervising staff at hotels including Alexander Young Hotel and Building and AMFAC Hotels and Resorts (formerly Island Holidays). She took many correspondence courses, wrote proce-

dures, raised standards and consulted with hotels internationally and across Hawai'i.

A member of the Kawaiaha'o Church congregation, Lerman died Dec. 7, 1997 after battling ovarian cancer that went undiagnosed for a year, despite her insistence to doctors that something was wrong. Her gift of \$469,000 to the UH Cancer Center for ovarian cancer research may save other women from that fate.

More on the UH Cancer Center and giving opportunities at www.uhcancercenter.org.

Supporting sustainability

By all accounts, Isamu Shinshiro lived a quiet life. He worked many years as a sewage treatment plant operator and rarely drew attention to himself until news got out that he'd left the UH Community Colleges a \$1.6 million endowment. Income from the Isamu Shinshiro Scholarship for Sustainable Technology Education and Training Fund will help community college students pursue two-year degrees and certificates in environmental sustainability, Hawaiian cultural values and traditions, food production and sustainability or any construction or carpentry program using sustainable materials.

Before he died in October 2009 at the age of 96, Shinshiro reportedly cried when he heard how his estate would be used. "Although he knew he would not be alive to see this happen, he was happy to know that he was going to help the youth of Hawai'i," said a friend who assisted with the bequest.

UH Community College program information at <http://uhcc.hawaii.edu>; donate to the scholarship at www.uhfoundation.org/ShinshiroScholarship or learn about estate giving at www.uhlegacygift.org.

Contact UH Foundation by phone at 808 956-8849 or toll free at 1 866 846-4262.

Jeela Ongley (BA '97, MA '09 Mānoa) is online editor of *Mālamalama* and web content coordinator in External Affairs and University Relations

Youthful impulse begets loving guardian

by Jackie Graessle

Master of social work student Daintry Bartoldus arrived late for her academic appointment, accompanied by an elderly woman carrying an empty plastic cookie container that she tapped softly to her face. During the advising session, the woman etched the lid with an unbent paper clip, and then colored it with a marking pen. “She draws these faces, some sad, some happy,” Bartoldus remarked.

Alice Kamaka is 71, deaf and autistic, with cerebral palsy and developmental delays. For the past two decades, Bartoldus, 44, has been her legal guardian.

Bartoldus arrived from Oregon in 1989 to pursue a master’s degree in library science. Working as resident manager at a community-based group home for the behaviorally and mentally challenged, she visited Waimano Training School. It was deinstitutionalizing, releasing some residents designated “very profoundly retarded.”

Kamaka had been at Waimano for 48 years, placed there under the jurisdiction of the Department of Corrections at age three. Bartoldus was dismayed. Nearly half the residents were Native Hawaiian, she explains. “To me, it was legalized prejudice. She wasn’t a danger to society. She had done nothing wrong.”

Kamaka was moved into the group home where Bartoldus was resident staff. “I had fixed up a room for her. I painted it, made up her bed, put a night light on for her. But when I left her alone, she wouldn’t stop crying,” Bartoldus recalled. She understood Kamaka’s fear when she read about documented beatings, use of restraints and sexual assault in Kamaka’s file. For weeks, she sat in the room at night so Kamaka could sleep.

Five years later Bartoldus was promoted to case manager and moved out. She took Kamaka on outings, but Kamaka became increasingly difficult to manage when returned to the home. The staff disallowed the visits and tried to increase Kamaka’s medication, which was already causing irreversible side effects. When Bartoldus

**It wasn’t
the life she
envisioned**

protested, she was challenged to become Kamaka’s legal guardian if she thought she could do better. Bartoldus was surprised at how easy the paperwork was.

“I was 26, stupid and didn’t know what I was doing,” she says in retrospect. “The first few weeks, I nearly killed her,” triggering serious side effects by stopping some medications. Doctors took six months to get doses right.

Bartoldus met Kamaka’s mother, who said she had repeatedly tried to regain custody and had been restricted from visiting. Kamaka’s parents were half-siblings and poor. Kamaka’s father was diagnosed as “slow” and placed in Waimano, where he died two years later. By the time they could visit, Kamaka’s elderly mother had developed dementia. She has since died.

Bartoldus lives with Kamaka’s constant noises. She must sleep with her bedroom door open in case Kamaka gets into mischief at night. She keeps a lock on the refrigerator to keep Kamaka from eating uncontrollably. She has missed conferences and other events because Kamaka grows anxious if she is away for more than four days.

It wasn’t the life Bartoldus had envisioned, and at 40 she went through a period of depression, feeling trapped by the decisions she had made as a very young woman. Now, however, she cannot imagine life without Kamaka, saying, “I love her. I could never have abandoned her. She is so likeable. Her joy is contagious. There is no pretense.”

Bartoldus completed her MSW in 2009 and continues to work for the state Developmental Disabilities Division. While she has lost some of the friends she had prior to becoming Kamaka’s guardian, she finds the friendships she’s made to be much more meaningful. “In some ways, Alice has been a filter. She has saved me from relationships that may have not have been as healthy. I asked God for someone who would give me unconditional love. Maybe I should have given God more details, been a little more specific, but here she is.” ☺

Jackie Graessle is on faculty at the Myron B. Thompson School of Social Work



2011 Distinguished Alumni

Join the UH Alumni Association and guests in celebrating recipients of the 2011 Distinguished Alumni Awards on May 12 at the Sheraton Waikīkī Hotel. The awards event includes dinner, entertainment and a silent auction; proceeds support UHAA scholarships and benefit association programs. For more details or to RSVP, visit <http://UHalumni.org/daa>, call 808 956-2586 (toll-free 1-877-842-5867) or email events@UHalumni.org.



L. Tammy Duckworth



Gary Galiher



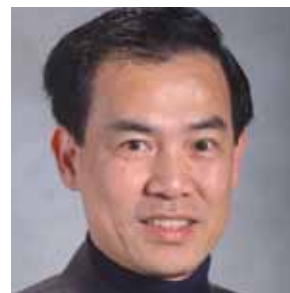
Diane Ono



Richard Ha



John T. Komeiji



Hing Leung Sham

L. Tammy Duckworth (BA in political science '89 Mānoa) is assistant secretary for public and intergovernmental affairs at the U.S. Department of Veterans Affairs and a major in the Illinois Army National Guard. An attack on the Black Hawk helicopter she was co-piloting in Iraq resulted in the loss of both of her legs and partial use of one arm. Since recovering, she has testified on disability rights and veterans before Congress and delivered a key address on veterans' rights at the 2008 Democratic National Convention. She has received military and civilian honors including the Purple Heart, Hubert H. Humphrey Civil Rights Award and American Veterans Silver Helmet. She was named Disabled Veteran of the Year by Disabled American Veterans and received the Colin Powell Public Service Award from The George Washington University, where she received her master's in international affairs. She continues to serve in the National Guard, completed the Chicago Marathon and has resumed flying as a civilian pilot.

Gary Galiher (MEd in educational foundations '71, JD '77 Mānoa) and **Diane Ono** (AS in paralegal '82 Kapi'olani; BA in Asian studies '73, JD '91 Mānoa) are senior partner and managing partner, respectively, with Honolulu law firm Galiher DeRobertis Ono. Active with the William S. Richardson School of Law and its alumni chapter, they established the Galiher Ono Distinguished Public Lecture Series, fund scholarships and host events. The law school's 2007 Alumnus of the Year, Galiher has won more than 50 jury verdicts, settled thousands of claims for clients diagnosed with asbestos-related diseases and helped secure a \$1.38 billion settlement from the tobacco industry and \$20 million settlement from five major oil companies for the State of Hawai'i. Ono is director and past president of Hawai'i Children's Cancer Foundation, president of Hawai'i Attorneys for Justice and trustee of Mid-Pacific Institute and is active with Friends of the UH Cancer Center. The couple's daughter Mari

participated in a cancer center trial 12 years ago and is now a leukemia survivor and first-year student at Mānoa. The couple also served on the UH Foundation Centennial Campaign Cabinet.

Richard Ha (BBA in accounting '73 Mānoa) is founder and president of Hāmākua Springs Country Farms, a 600-acre family operation on the Island of Hawai'i that sustainably produces bananas and hydroponic vegetables. A former U.S. Army captain and Vietnam War veteran, he started growing bananas on his father's chicken farm at Waiākea Uka and started several businesses over the years. He serves on the Hawai'i Island Economic Development Board, represents the County of Hawai'i on the state Agriculture Executive Board and co-chairs the Geothermal Working Group. A 2008 Shidler College of Business Hall of Honor inductee, he has served on advisory boards for Mānoa's College of Tropical Agriculture and Human Resources and UH Hilo and organized community support for UH's proposed \$1 billion Thirty Meter Telescope project on Mauna Kea. Elected to the Social Science Association, an organization of community leaders, Ha speaks frequently on agriculture and sustainability and promotes hydroelectric energy on the Big Island.

John T. Komeiji (BEd in secondary education and political science '75 Mānoa) is senior vice president and general counsel of Hawaiian Telcom, overseeing legal, governmental and external affairs. Formerly a senior partner with Watanabe Ing and Komeiji, he litigated complex commercial, personal injury and professional liability cases and represented the National Football League, Viacom, Dole Foods, First Hawaiian Bank and other clients. He is an arbitrator and master mediator and founding board member of the Hawai'i Institute for Public Affairs. Past president of the Hawai'i State Bar Association and a lawyer representative to state and federal judicial conferences, he is active in numerous professional organizations as

Awards Recipients

well as on the boards for several for-profit and nonprofit organizations, including the UH Foundation. He taught pretrial litigation in the William S. Richardson School of Law, where he received the 2002 Co-Adjunct Professor of the Year Award.

Hing Leung Sham (PhD in synthetic organic chemistry '80 Mānoa) is senior vice president of chemical sciences at Elan Biopharmaceuticals, where he oversees drug discovery efforts for autoimmune, Alzheimer's, Parkinson's and other neurodegenerative diseases. He previously directed medicinal chemistry research in metabolic diseases at Abbott Laboratories, where he was a Distinguished Research Fellow and received the 1995 President's Award, 1999 Outstanding Researcher of the Year Award and 2002 Chairman's Award. He was the primary inventor of Abbott's Kaletra protease inhibitor for the treatment of HIV infection and a co-inventor of Norvir (ritonavir) first-generation protease inhibitor. Author or co-author of more than 160 scientific publications and inventor on 75 issued U.S. patents, Sham was named National Inventor of the Year by the Intellectual Property Owners Association in 1997. He received the 2003 Heroes of Chemistry Award from the American Chemical Society, belongs to numerous professional associations and served on the editorial board for the journal *Current Medicinal Chemistry*.

The 2011 Founders Alumni Association Lifetime Achievement

Award will be presented posthumously to the family of pre-eminent marine ethnobotanist

Isabella Aiona Abbott (BA '41 Mānoa). The first person of Hawaiian ancestry to earn a PhD in science and first woman



Isabella Aiona Abbott

on Stanford's biology faculty, the UH Mānoa emerita Wilder Professor and 1994 UHAA Distinguished Alumna was considered to be the foremost expert on central-Pacific algae. Read the October 2010 *Mālamalama* profile at www.hawaii.edu/malamalama/past-issues; donate to the Abbott Award for Graduate Research at www.uhf.foundation.org/AbbottAwardforGradResearch or via UH Foundation, P.O. Box 11270, Honolulu, HI 96828.

Catch what came ashore from UH Press!

BIG HAPPINESS: *The Life and Death of a Modern Hawaiian Warrior* • Mark Panek

WAVES OF RESISTANCE: *Surfing and History in Twentieth-Century Hawai'i* • Isaiah Helekunihi Walker

FROM OKINAWA TO THE AMERICAS: *Hana Yamagawa and Her Reminiscences of a Century* • edited by Akiko Yamagawa Hibbett

MAURI OLA: *Contemporary Polynesian Poems in English* • edited by Albert Wendt, Reina Whaitiri, and Robert Sullivan

DESTINY'S LANDFALL: *A History of Guam*, Revised Edition • Robert F. Rogers

HAWAIIAN SURFING: *Traditions from the Past* • John R. K. Clark (cover shown is not final)

BACKSTAGE IN A BUREAUCRACY: *Politics and Public Service* • Susan M. Chandler and Richard C. Pratt

ABC ENGLISH-CHINESE, CHINESE-ENGLISH DICTIONARY (ABC Chinese Dictionary Series) • edited by John DeFrancis and Zhang Yanyin

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 2011 Asian Studies catalog (print version also available upon request)

Fellow alumni,

Is it just us, or does the time seem to go by much more quickly the older we get? As another spring semester draws to a close, we are busy preparing for our 2011 Distinguished Alumni Awards dinner and silent auction on May 12 at the Sheraton Waikīkī. Please join us in honoring this year's outstanding recipients. They are: Tammy Duckworth '89; Gary Galiher '71, '77 and Diane Ono '73, '82, '91; Richard Ha '73; John Komeiji '75; Hing Leung Sham '80; and Isabella Aiona Abbott '41 for their contributions to their professions, communities and our alma mater. Read about the honorees on the previous page. For more information and to reserve seats, please visit UHalumni.org/daa.

Proceeds from this annual event support alumni programming and student scholarships. As former students, one of our favorite ways for us to give back is to support current students. This year, UHAA awarded four academic scholarships to the children/grandchildren of University of Hawai'i alumni or UHAA members who are full-time students at a UH campus. Congratulations to our 2010–2011 UHAA Endowed Scholarship recipients—

- **Ashley Katamoto**, a senior in art at UH Mānoa
- **Lyndee Kobayashi**, a senior in elementary education at UH Mānoa
- **Shavonn-Haevyn Matsuda**, a senior in political science at UH Mānoa
- **Erynn Tanimoto**, a sophomore in art at UH Hilo

Congratulations also to **Brandee Fisher**, the first recipient of our UHAA–San Francisco Bay Area Chapter's own scholarship. We had the pleasure of meeting Brandee, and we are so proud that such a well deserving student received this scholarship. For more information about applying for these and other scholarships, please visit www.uhfoundation.org/scholarships.

We hope to see you at one of our many UHAA events this year. For a list of upcoming alumni events, visit UHalumni.org/events. Please keep in touch!

With aloha,

Douglas Inouye '85, '03
President

Janet Yoshida Bullard '82
Executive Director

Alumni calendar

More information on these and other events at <http://UHalumni.org>

UHAA events

2011 Distinguished Alumni Awards Dinner

May 12, 5:30 p.m.
Sheraton Waikīkī Hotel
Honolulu, Hawai'i

Adopt-A-Highway Cleanup

June 18, 9 a.m.
Kawaikui Beach Park
Honolulu, Hawai'i

Chapter Events

Dining In Military Banquet (ROTC Chapter)

April 30, 6 p.m.
Hale Koa Hotel
Honolulu, Hawai'i

Shidler Business Night 50th Anniversary

May 5, 5 p.m.
The Royal Hawaiian Hotel
Honolulu, Hawai'i

CTAHR Annual Awards Banquet

May 6, 5:30 p.m.
Ala Moana Hotel
Honolulu, Hawai'i

UHAA & Friends–Las Vegas Chapter Annual Scholarship Golf Tournament

May 14, 7:30 a.m.
Silverstone Golf Club
Las Vegas, Nevada

22nd Annual UH Law Alumni Golf Tournament

May 20, 10:30 a.m.
Pearl Country Club
'Aiea, Hawai'i

College of Education Alumni Association General Meeting

June 3, 11:30 a.m.
The Willows Restaurant
Honolulu, Hawai'i



Douglas Inouye, right, with San Francisco scholarship recipient Brandee Fisher

UHAA and chapter news

Hilo celebrates its Distinguished Alumni and Service Awards

UH Hilo Alumni and Friends Association hosted its 11th Annual Distinguished Awards Banquet Feb. 25. This year's Distinguished Alumni Award recipients are Ronald Ibarra, Third Circuit chief judge; Gregg Taketa, CPA and partner in accounting firm Taketa, Iwata, Hara and Associates; and Wayne Subica, community historian and author. The Distinguished Service Award was presented to architect Russell Oda. A highlight of the evening was recognition of the Class of 1971, marking the 40th anniversary of the first UHH baccalaureate degrees, conferred on 37 individuals May 22, 1971. Proceeds from the event benefit the UH Hilo Alumni and Friends Association scholarship fund.

Alumni stories from Asia-Pacific region sought

In conjunction with the November 2011 Asia-Pacific Economic Cooperation summit in Honolulu, UH is sharing news about alumni who have made an impact in the APEC region. If you have lived or worked in the 21 member economies, tell us how UH helped shape who you are and what you do today and any special memories you may have. Let us know if you plan to participate in the APEC summit, and share your ideas on how UH can contribute to the summit's success. Complete the form at <http://UHALumni.org/APECAlumni>.

Asia alumni welcome Naughton and Roley in Singapore

June Naughton (MED '78 Mānoa), retired director of International Student Services at UH Mānoa, recently traveled to Singapore with Shidler College of Business Dean Vance Roley and Shidler development director Unyong Nakata (BS '00, MBA '05 Mānoa). They met more than 50 UH alumni from around Asia at the Fremantle Seafood Market, owned by UH Travel Industry Management alumnus Anthony Wong (BBA '83 Mānoa). The event was organized by Mina Chan (BS '78 Mānoa).

Alumni gather in Kansai to plan a new UHAA chapter

On Dec. 9, 2010, a group of UH alumni in the Kansai area gathered at Osaka Gakuin University with the goal of creating a UH Alumni Association Kansai Chapter. Planning committee members hope to establish a networking and social group for alumni in the Kansai area to share their common interest and love for the University of Hawai'i. The group planned a casual gathering in April. For information on future events, please email uhaa.kansai@gmail.com.



Members of the UH Hilo Class of 1971, from left, Charlene Kojiro, Norman Nishiki, Bevin Cushnie, Spencer Adams, Anne Bowen



From left at Hilo banquet: Chapter president Carol VanCamp; Russell Oda; Gregg Taketa ('73-'75 Hilo; BBA '77 Mānoa); Ronald Ibarra ('66-'68 Hilo; BBA '70 Mānoa); Gerald De Mello, UHH director of university relations (MA '73 Mānoa); Yu Yok Pearing, UHH marketing and alumni relations director (BBA '85 Hilo); and Wayne Subica (BS '78 Hilo)



At the Kansai gathering, front row from left, Curtis Kelly, Ray R. Tait (BBA '82 Mānoa), Daryl Arakaki (BBA '84, JD '90 Mānoa) and Seiko Furuhashi (MED '84 Mānoa); back row from left, Motoyasu Shirai, Russell Sumitomo (AA '01 Kapi'olani, BA '09 Mānoa), Greg Nakajo (MBA '09 Mānoa) and Scot Matsuo (BA '95 Mānoa)

Mānoa nursing alumni launch golden scholar tradition

A new UH Mānoa School of Nursing and Dental Hygiene tradition recognizes golden scholars in nursing. Each golden anniversary class will be invited to visit the school and be recognized with the new graduating class during December. The tradition was started by the Class of '60 and included a tea for alumni and a visit to Webster Hall in October to see the simulation unit in action and hear about how nursing education has evolved.

"Our classmates were impressed by the use of simulation technology to teach nursing today and to give students a safe place to practice their new skills," says Beverly Kim, '60. "Our education gave us the skills and opportunity to live successful lives and have many lifelong friends," adds classmate Carol Kikkawa-Ward. "We wish this to continue for all attendees of the school—to fulfill their dreams and be special contributors to our people for healthy and happy lives."

The class was recognized on Dec. 16 and presented the school with its class gift, a contribution toward purchase of the learning equipment that had so impressed them on their visit. "It is wonderful for our students to see alumni involved and supporting the school 50 years after graduation and, as important, enjoying time together," says Dean Mary Boland.

The Class of '61 held its 50th reunion Feb. 4 and visited the simulation lab, temporarily located at Lē'ahi hospital while Webster facilities are being renovated to create the UH Translational Health Sciences Simulation Center. These alumni studied one summer at Lē'ahi, so the location brought back additional memories. Their class gift was a scholarship in memory of friend and classmate Amy Ebesu. The annual tea will be held June 3, and the recognition ceremony will take place in December.

'Onipa'a life members enjoy 'ahi demo

UH Alumni Association 'Onipa'a members gathered at Kapi'olani Community College's 'Ōhi'a Building for the 2011 Life Member Event on March 4. The event included a cooking demonstration by Grant Sato (AS '97 Kapi'olani), a chef instructor in the Kapi'olani Culinary Institute of the Pacific. Sato taught the 80 UHAA life members and friends in attendance how to slice 'ahi into three grades and make three delicious recipes. After the demonstration, members tasted the 'ahi carpaccio with garlic aioli and capers, 'ahi katsu with pohole fern relish and spicy 'ahi inari while enjoying each other's company. Special thanks to Kapi'olani Chancellor Leon Richards (MA '70, PhD '74, MA '00 Mānoa) and the Kapi'olani CC Culinary Program for hosting the annual event.



Class of '60 "golden girls" during recognition of their 50-year anniversary



Attending the Class of '61 50th Reunion, from left, Gladys (Ng) Ching; Helene (Kataoka) Shiratori, '62; Elena (Viloria) Gaborno; Faye (Nagai) Nakamoto; Elaine (Shimada) Ashimine; Carole (Yamada) Fujishige; Mavis (Asari) Kim; Shirley (Lum) Tanigawa; Leatrice (Fujioka) Shikiya; Jane (Tsuda) Yamamoto; and Georgiana Yap



Chef Sato, right, with 'Onipa'a member Thelma Nip


Aquaponics continued from page 11



Growing fish like those tended by Suzanne Lee at Mari's Garden gets double use out of water, a major resource consumed by nurseries, while producing nutrients for plants

rates an aquaponic system on each homestead to provide food for the families. "Similar goals of becoming

more self reliant in the availability of food are being sought in Waimānalo," he says. "What doesn't grow in sand, aquaponics can do."

It's another demand on his and his colleagues' time, but Tamaru's enthusiasm doesn't wane. "That's what we do. We're land grant extension agents and specialists," he explains, referring to the agricultural mission set at the university's founding. 

For related CTAHR publications, search for "aquaponics" at www.ctahr.hawaii.edu/site/info.aspx; more on Mari's Gardens at www.marisgardens.com/



Web extras: See our video on what's required for a backyard system or tour the commercial operation at www.hawaii.edu/malamalama.

Cheryl Ernst is *Mālamalama* editor and creative services director in External Affairs and University Relations

Talk Story

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

1950s

Masaru Oshiro (BA '52, MSW '54 Mānoa) was named a Living Treasure of Hawai'i by the Honpa Hongwanji Mission of Hawai'i on Feb. 25. His 40-year career in social work began with assisting families of Korean War veterans as an American Red Cross volunteer case aide. He earned his master's in social work on the GI Bill after WWII and became executive director of the Queen Lili'uokalani Children's Center. Throughout his career he provided mental health support services through the Red Cross for Hawai'i disasters and the 9/11 World Trade Center Attack, California Central Valley Flood, Korean Airlines crash on Guam and TWA crash off the coast of Long Island. Oshiro has been named Social Worker of the Year by the National Association of Social Work three times.

Rozita Lee (BA '56 Mānoa) was appointed to a key administrative post and named a member of President Obama's Advisory Commission on Asian Americans and Pacific Islanders. She was sworn in on Sept. 21, 2010, in Washington, D.C.

1960s



Ernest Nishizaki (BBA '69 Mānoa), executive vice president of Kyo-ya Company, was named an external adviser to the chair of the Honolulu Japanese Chamber of Commerce board.

1970s

Lincoln C. Yamashita (MEd '71 Mānoa) was elected to a three-year term on the Idaho State University Alumni Board of Directors and also inducted into the Idaho State University Sports Hall of Fame in 2009. He received a BS in physical education, health and art education from Idaho State in 1966.

R. Brian Tsujimura (BA '72 Mānoa), independent business consultant and of counsel to Imanaka Kudo Fujimoto, is chair of the United States Board of the Geneva-based non-profit Global Hope Networks International, an international aid agency that provides transformational community development, disaster relief and other services in the Middle East, Africa and Asia. He recently attended and completed courses at the Global Institute for Leadership and Public Policy in Geneva with leaders from India, Indonesia, Ethiopia, Nigeria, Kenya, Jordan, Latvia and Palestine. He serves on the board of the Queen's Health Systems, and was previously on the board of PBS Hawai'i. He is a former deputy attorney general and served as president of AMFAC Development Corp.

Darryll Wong (BA '72, MBA '09 Mānoa), a major general in and former commander of the Hawai'i Air National Guard, was named adjutant general of the Hawai'i Department of Defense in March. He has received numerous awards and decorations, including the Legion of Merit, Vietnam Service Medal, Kosovo Campaign Medal, Humanitarian Services Medal and the Meritorious Service Medal.

Gordon Williams (BA '73 Mānoa) of Houston was named 2010 Writer of the Year by Inspirational Writers Alive!, a Christian writers' organization in Texas.



Francis (Frank) Mellon (BBA '74 Mānoa) is an employee and labor relations consultant at Kaiser Permanente's Oakland, Calif. Medical Center. He was recently re-elect-

ed to a fifth four-year term as director of the East Bay Municipal Utility District.

Kathryn Inouye (BED '75 Mānoa), chief operating officer of Kobayashi Group, was named an external adviser to the chair of the Honolulu Japanese Chamber of Commerce board.



Virginia Pressler (MBA '75, MS '81, MD '82 Mānoa), executive vice president and chief strategic officer for Hawai'i Pacific Health, was named to a three-year term serving on the national Advisory Committee for Infant Mortality. Pressler has been with Hawai'i Pacific Health since 2002 and oversees specialty service line development, government relations and philanthropy. She is also president of Hawai'i Pacific Health Partners, a subsidiary that oversees all joint ventures. Pressler received the 2010 UH Alumni Association Distinguished Alumni Award.



Wayne Hamano (BBA '76 Mānoa), vice chair and chief commercial officer of Bank of Hawai'i, was named an external adviser to the chair of the Honolulu Japanese Chamber of



Wayne B. Kato (AA '78 Leeward, BBA '81 Mānoa), owner of Painter's Warehouse in Honolulu, is chair of the Honolulu Japanese Chamber of Commerce board of



Deborah Duda

Living with dying

Profession: Foreign service officer, therapist, Spanish teacher

UH degree: Post baccalaureate certificate in secondary education '04, Mānoa (earned online)

Home: Kalāheo, Kaua'i

Roots: Ohio and England

Epiphany: Mother Teresa's advice to address suffering at home

Website: <http://deborahduda.com>

Ghostwriting letters from President Johnson to parents of soldiers killed in the Vietnam War broke Deborah Duda's heart. Working to end use of torture dislodged her faith in political solutions. She was living in a Tibetan Buddhist Monastery when a visit to Mother Teresa in India set her on another course. Duda earned a master's in psychology and spent the next three decades as a therapist for the terminally ill and their families. Her ailing father helped edit her book to accurately represent a dying person's point of view. The fourth edition of *Coming Home: A Practical and Compassionate Guide to Caring for a Dying Loved One* was released last October. The step-by-step guide to the physical, spiritual and emotional aspects of caregiving is used to train hospice staff and volunteers, and Duda speaks widely on the topic.

"Sitting beside the bed of someone, holding their hand is more expanding spiritually than all of the times I sat in monasteries and temples meditating," she says. A founder of Kaua'i Hospice, Duda also coordinated a FEMA mental health recovery program after Hurricane 'Iniki and taught teenagers suffering with schizophrenia. Her next book, *Lighten Up: Seven Ways to Kick the Suffering Habit*, is due out in fall 2011.

—Kymber-Lee Char



Ronda Wojcicki

Giving a voice to kids

Career: Pediatric speech language pathologist

UH degree: MS in speech pathology '00 Mānoa

Home: Long Valley, N.J.

Family: Husband Kevin, children Shane and Kyle

Favorite activities: Hiking, reading, cooking with the kids

Pets: Humane Society dogs border collie Bailey and hound Ginger

Goal: Increase awareness about speech/language impairments and break down stereotypes

Ronda Wojcicki was hooked after her first class in speech therapy at James Madison University. But her search during graduate school for a book that would help children understand speech therapy wasn't as fruitful. She finally decided to write it herself. Training for a marathon while at home with a newborn during her husband's deployment to Iraq gave her time to organize the story in her mind. Sheer determination and her husband's encouragement to "do it before someone else does" saw her through the writing and publication process.

"I think we really captured the essence of the speech therapy experience of so many children," says Wojcicki, who has worked with children from Hawai'i to the East Coast. In *Speech Class Rules*, Laney Lynn explains what she and fellow students do and the rules they have to follow in Miss W's speech class. The book received Moonbeam Children's Book and Mom's Choice Gold Awards. More at www.thespeechplace.com.

Get involved with the teacher, speech therapist and local speech and hearing association, Wojcicki advises parents of children with speech or language impairment. Celebrate small victories.

Submit class notes at www.UHAlumni.org or email magazine@hawaii.edu

directors for the 2011 term.



Mahealani Uchiyama (BA '79, MA '87 Mānoa) was named director of education and community engagement of World Arts West, producer of the San Francisco Ethnic Dance Festival, which is entering its 33rd season.

1980s

William Aila Jr. (BS '80 Mānoa) was named chair of the Hawai'i Board of Land and Natural Resources. He previously served as interim director of the Department of Land and Natural Resources and was harbor-master of the Wai'anae Small Boat Harbor for 23 years.

Roy Kekahuna (BA '80 Mānoa) was elected for a two-year term as national president of the Blind Veterans Association and attended its 65th National Convention in Washington, D.C., last August.

Russell Leu (BBA '80 Mānoa) has lived in Beijing since 2004. He is managing attorney for the U.S.-based law firm Taft, Stettinius and Hollister and does foreign direct investment work for U.S. and foreign clients. Leu is co-chair for the American Bar Association, China Committee, International Section. He is also senior co-editor of the American Bar Association China Law Reporter. For the past three years, Leu has been on the Beijing Foreign Studies University Law School faculty. He would like to hear from UH classmates at rkllou@yahoo.com.

Scott Brewer (BBA '81 Mānoa) is president and owner of Hawaiian Isle Mortgage, which celebrated its 10th anniversary in 2010. A 29-year banking veteran in Hawai'i, Brewer has worked for Honolulu Mortgage and Bank of America and served as treasurer and chief investment officer for Honfed Bank.



Ted Sakai (BBA '82 Mānoa) recently moved back to Hawai'i and became general manager of Miramar Hotel at Waikiki. He was previously general manager of Doubletree

Hotel Sonoma Wine Country and served as chair of group business development for Sonoma County Tourism Bureau and as a board member on the Santa Rosa Convention and Visitors Bureau.

Karl Trautman (MA '86, PHD '92 Mānoa) recently wrote a book titled *The Underdog in American Politics: The Democratic Party and Liberal Values* (Palgrave, 2010). He lives in Maine.



Donna Choo (BA '87 Mānoa) is director of creative affairs at MGM. She returned to UH Mānoa last October to teach a screenwriting workshop for Outreach College's Pacific New

Media. Choo has worked in Hollywood for more than 15 years, beginning her career as story editor for TriStar and Columbia Pictures. She earned a master's in writing from the University of Southern California, and she continues to work as a consultant for various clients, including the Sundance Institute's bi-annual screenwriting lab.

Jodie Maesaka-Hirata (BSW '88 Mānoa) was named director of Public Safety for the State of Hawai'i in March. She previously served as acting warden of Waiawa Correctional Facility, where she oversaw direction, control, coordination and general management.

1990s



Maria-Elena Tierno (MBA '94 Mānoa), vice president of international business development for CH2M HILL, will be inducted into the Italian-American National Hall of

Fame at its 36th annual induction and awards ceremony on May 7 in Atlantic City, N.J. She has been with CH2M HILL for 10 years and serves on the not-for-profit boards of THISforDiplomats and William V.S. Tubman University Foundation in Liberia.



Kim Dong-soo (PhD '97 Mānoa) became the 16th chairman of the Fair Trade Commission, Korea's antitrust watchdog on Dec. 31, 2010. He enters the post with 30 years of public

service, leaving his position as chief executive of the Export-Import Bank of Korea. Kim has served as vice minister and deputy minister of the Ministry of Strategy and Finance and director general of the Multilateral Trade Bureau at the Ministry of Foreign Affairs and Trade.



Ron T. Martinson (MD '98 Mānoa) received his master of science management in healthcare administration from Mt. Vernon Nazarene University last

December. He maintains a full-time practice as a family physician in Centerburg, Ohio, and serves as a physician adviser for Knox Community Hospital's Case Management and Utilization Committee and medical director for network of multi-specialty hospital-employed physicians. Interested in the evolution of healthcare quality and compliance as well as rapid integration of information technology, he coordinated the opening of his hospital's Clinical Decision Unit for inpatient observational medicine and recently assisted in implementing an outpatient systemwide Allscripts electronic health record. Since 2008 he has chaired and presented at national conferences geared toward physician and hospital administrative executives on healthcare and hospital quality and compliance. Martinson was elected to a second term on Knox Community Hospital's Board of Trustees in January. He is also medical director of the Central Ohio Joint Fire District EMS Unit and a team physician for Centerburg High School's football team.

2000s



Kelly Benoit-Bird (PhD '03 Mānoa), associate professor of biological oceanography at Oregon State University, was named a MacArthur Fellow by the John D. and Catherine

T. MacArthur Foundation. Commonly known as the "Genius Award," MacArthur Fellowships recognize some of the most high-achieving, creative and groundbreaking individuals working in the arts and sciences today. Her work in applying acoustics to study the ecology of pelagic ocean ecosystems has resulted in numerous awards.



Choi Joong-kyung (PhD '03 Mānoa) was appointed Minister of Knowledge Economy for South Korea on Jan. 27. He oversees the government's export and corporate policy. Choi focused

his dissertation research at UH Mānoa on financial systems of developing economies. He joined the ministry in 1980 and has extensive expertise in macroeconomic and fiscal policy areas. Previously he served as vice finance and strategy minister and senior presidential secretary. During the Asian Financial Crisis, Choi led the task force team specializing in public finance loans. In 2010, he also served as Korea's ambassador to the Philippines.



Angela Rickabaugh Shears (BA '03 Mānoa) recently released her memoir, *Three Women from Someplace Else: A Trip to Paradise and Return*. She writes of three friends

(Japanese, Korean and Hawaiian) she made while living in Hawai'i who taught her about their ways of life, culture, faith, family, language and more. Shears lives in Pennsylvania with her husband of 32 years and enjoys her home-based career as a writer and editor.

Soussan Djamasbi (PhD '04 Mānoa) was promoted to associate professor of business and granted tenure at Worcester Polytechnic Institute in Massachusetts. An authority on decision support systems, she has conducted award-winning research on the use of eye tracking to test the usability of websites.



Jason Kama (BFA '04 Mānoa) is strategic development director for Hagadone Printing Company's new H1 division. He will assist Hagadone and H1 sales teams, ensuring that clients benefit

from cohesive marketing plans ranging from message management and search engine optimization to social media solutions. Kama previously worked for Success Advertising Hawai'i, Communications Pacific and Hawai'i Business Magazine. He serves on the board of Sales and Marketing Executives Honolulu.

Jillian Mata Saldana (BA '05 Mānoa) recently graduated from Ross University School of Veterinary Medicine in New Jersey.

Marie Watanabe (BS '07 Mānoa) is sales coordinator, corporate meetings and incentives at Hawai'i Visitors and Convention Bureau. She previously worked for the Grand Hyatt Kaua'i as an assistant banquet manager.

Micha Coloma (BA '09 Mānoa) recently returned to Hawai'i and is front office manager for Hyatt Regency Waikiki Hotel and Spa. She was previously a corporate management trainee for Hyatt Regency McCormick Place in Chicago.

2010s

Mark Crumpton (AS '10 Maui) is a substance abuse counselor at Alu Like, a private, non-profit organization that assists Native Hawaiians to achieve social and economic self-sufficiency. He combines therapeutic horticulture and traditional Hawaiian practices with Western treatment modalities in his work with youth and families of Hawaiian ancestry.



Ervin Gong

Taste for tea and trade

UH degree: BBA '03 in finance Mānoa

Hobbies: Basketball, travel, stocks

Fantasy career: Pro basketball player

Actual career: Tea merchant

Favorite tea: The Dragon Well, a green tea from China, and Cold Mountain Oolong from Taiwan

Tip for tea newbies: Find something you like to drink and drink it often. Don't add milk and sugar (unless you're supposed to). Eventually your tastes will expand.

Ervin Gong celebrated graduation with an extended trip to Asia. His wanderings led him to Beijing, where he spent a year studying Mandarin and falling in love...with tea. "We always had tea in the house, but I really liked the tea shops in China and started to appreciate the many different varieties," he says. Back in Hawai'i, he began importing tea from Japan, China, India and South Africa, selling it wholesale and direct to customers at www.theteafarm.com. Once or twice a year he travels to tea farms and factories abroad.

In February Gong opened The Tea Farm Cafe in Mō'ili'ili. The cafe boasts nearly 50 types of green, black, white, pu-erh, herbal and blended teas for customers to see, sniff, sample and buy. It also offers free wifi, sandwiches and even a book swap. "I've always studied at Starbucks, so I tried to have a place that is comfortable for students," he says.

Managing business keeps Gong busy, his favorite teas keep him going and help him relax. "I work twice as hard because I have to," he says.

—Jeela Ongley



Jennifer Hancock

A humanistic approach

Profession: Writer, speaker

UH degree: BA in linguistics, '90 Mānoa

Roots: Hermosa Beach, Calif.

Musical taste: Listens to Hawaiian music on 105 KINE via the Internet

Philosophy: Live life to the fullest, love other people and leave the world a better place

From age 11 when she read *Day of the Dolphins*, Jennifer (Shaw) Hancock wanted to train dolphins. She also wanted to study linguistics. Mānoa offered both...and an international humanities cannon that she considers unique to Hawai'i: a global education in literature, philosophy and the arts that allowed her to relate to her counterparts around the world.

She was director of volunteer services for the Louisiana Society for the Prevention of Cruelty to Animals, sold international franchise licenses for a biotech firm and managed acquisition information for a half-billion-dollar company before becoming executive director for the Humanists of Florida Association. Young people, she realized, could benefit from an explicit discussion of the morals and values of humanism, so she wrote a book as a stay-at-home mom.

"The Humanist Approach to Happiness basically says, 'here are personal ethics, here is why they are important and here is how you can apply them to your daily life,'" Hancock says. Hers isn't a philosophy book so much as the pragmatic reasons for being an ethical, compassionate and responsible person. "If we can help others learn how to be happy, we can have a tremendous positive impact on the world."

—Kymber-Lee Char

Farewell

Toma Tasaki (BED '29, BS '29 Mānoa), 102, of Honolulu, died Sept. 21, 2010. Born in Waimea on the Big Island, he began his long career as a public school administrator teaching in Hilo public schools. Tasaki volunteered for the Army's Military Intelligence Service in 1943 and served as a Nisei linguist in the China-Burma-India theater. He was a member of the American Legion, National Education Association and Hawai'i Education Association and served as Hawai'i commissioner of the Boy Scouts of America and Hilo scoutmaster. A lifetime member of the UH Alumni Association, he served on its board of directors and received the UH Founders Alumni Association Award in 1970 and 1983. Tasaki and wife Matsue had a son Thomas, daughter Susan and three grandchildren.

Walter Chee Kwon

Chun (BA '34 Mānoa), 99, died Dec. 27, 2010. Born in Kailua, the 9th of 10 children, he studied at UH Mānoa before going to China as English secretary to his brother-in-law Sun Fo, son of Sun Yat-sen. During the Sino-Japanese war, he met Mao Zedong, Zhou Enlai, Generals Zhu De and Wang Zhen and other leaders. He later served as the director of the Chinese Industrial Cooperative covering seven southeast provinces and four war zones. In 1950 he married Sau Chun Wong (BED '38, PD '39 Mānoa), a McKinley High School teacher, in Honolulu. They moved to Beijing and had two children. He worked in the Foreign Press Publishing House, helping distribute Chinese publications worldwide, and assisted in setting up the first Guangzhou Trade Fair in 1957.

Moving to Hong Kong in 1961, Chun helped cultivate relationships between U.S. and Chinese banks, assisted Bank of America in issuing its first travelers' checks in Hong Kong and helped Honolulu businessmen explore opportunities in China. The Chuns started a consulting business to promote U.S.-China trade and represented numerous Fortune 500 corporations in China. They helped Hawai'i Gov. John Burns deliver his 1972 goodwill letter to Chinese Premier Zhou Enlai and were instrumental in establishment of sister-state relations between Hawai'i and Guangdong and sister-island relations between O'ahu and Hainan.

Chun was a founder of the Soong Ching Ling Foundation in the U.S. and honorary trustee for the Soong Ching Ling (Madam Sun Yat-sen) Foundation in China. After their son Ping died in a plane crash, they used their compensation to set up scholarships at the Illinois Institute of



Technology and the University of Hawai'i and fund educational projects in China. In 1994, Chun received the Soong Ching Ling Camphor Tree Award. He was honored by the Dr. Sun Yat-sen Hawai'i Foundation and the Honolulu City Council last year.

Fumiye Miho (BA '39 Mānoa), 95, died Oct. 31, 2010. A Hiroshima atomic bomb survivor, she was a missionary, teacher and school principal; spokesperson for world peace and pacifism; and devout humanitarian. The fifth of eight children of Wailuku Japanese language school teachers Katsuichi and Ayano Miho, she graduated from Maui High School in 1933. Active in the Oriental Institute at Mānoa, she met a Japanese philosopher at the first World Philosophers Conference who encouraged her to teach in Japan and study Buddhism. She was teaching English at a women's college when war broke out and was forced to stay in Japan for seven years and evacuated to Hiroshima. She missed the train that would have taken her to Hiroshima City the day of the bomb. In the weeks that followed, she helped carry the dead from the ruins and nurse the wounded.

Miho was one of the first expatriates to return to Honolulu. In 1950 she joined the Religious Society of Friends and attended Yale Divinity School on a YWCA scholarship loan. She taught religious studies in a New Hampshire college, was director of an American Friends Service Committee refugee center in Tokyo, served as a Japanese language pastor in Lahaina and headed the Friends Center in Tokyo.

Returning to Hawai'i in 1991 with gifts received from friends in Japan, Miho established a scholarship in peace-making at Yale in memory of her late brother, Paul Katsuso, a crusader for peace and justice. She traveled extensively, often representing the Quakers at world peace conferences and speaking on behalf of peace justice and humanitarianism and decrying use of weapons of mass destruction.

Walter Richard Steiger (MS '50 Mānoa), 87, died Feb. 6 at Hilo Medical Center. Born in Proctor, Colo. He was a pioneering astronomer at Makapu'u Point, O'ahu, and Haleakalā, Maui. Steiger was a World War II Army veteran, professor emeritus and chair of the UH Mānoa Department of Physics and Astronomy, science center manager at Bishop Museum, UH regent, site manager of the Caltech Submillimeter Observatory and interim director of 'Imiloa Astronomy Center. He lived in Hilo with his wife Betty and had two children, three step-children, 13 grandchildren and 8 great-grandchildren. The Walter and Betty Steiger Physics and Astronomy Scholarship was established at the University of Hawai'i Foundation.

Elizabeth Anne (Betty) McMahan (PhD '60 Mānoa) died Aug. 17, 2009. She was born on May 5, 1924, in Pino, N.C., the second of three girls. McMahan received her AB

and MA in psychology from Duke University before entering the graduate program in entomology at UH Mānoa. She taught in the University of North Carolina at Chapel Hill biology department and was known for her termite research. The insect species *Neophiloterme mcmahanae*, a Venezuelan termitophilous beetle, and *Salyavata mcmahanae*, a Costa Rican assassin bug, were named after her. After retiring in 1987, she joined the Peace Corps and taught zoology at Jamaica's College of Agriculture. She wrote and illustrated 10 children's books and self-published 2 illustrated autobiographies.

Dianne Dahlberg Simmons (BBA '66 Mānoa), 63, of Waikoloa, died July 9, 2010. Born in Lihue, Kaua'i, she graduated from Waimea High School in 1963. She earned an MBA from Chaminade University and was personnel manager for Sea Mobility and U.S. Marine Management. She later worked as a field underwriter with Mutual of New York and a registered representative with The Guardian. She also formed two investment clubs for women and served on the boards of the Honolulu Zoo Hui, Prevent Child Abuse Hawai'i and Family Support Services of West Hawai'i. She was president of the Bishop Museum Service Board and the Junior League of Honolulu. She chaired the board for the American Cancer Society and Hawai'i Pacific Corporation and was a member of the Daughters of the American Revolution. A scholarship fund was established in her name at the UH Foundation.

James Edmund Bennett (BA '76, PD '93 Mānoa) died unexpectedly on Dec. 5, 2010, in Seattle. He lived in Juneau, Alaska, where he taught mathematics at Yaakoosge Daakahidi High School. Born in Charlottesville, Va., he moved with his family from Atlanta to Hawai'i in 1962. He served as a Navy officer taught at high schools in Alaska and Las Vegas. Bennett and his wife Eva Raczkowski had two sons, Vann Michael (BS '07 Mānoa) of Mililani and Patrick Truett of Pittsburgh, PA.

Janet Marie Kam (BA '80 Mānoa), 59, died at home in Spokane, Wash., on Oct. 27, 2010. Born in Dickenson, N.D., she attended Liberty High School and Eastern Washington University. She married John Kam and relocated to O'ahu. They had a son Jon. She enjoyed swimming, scuba diving, picnicking and vacationing across the United States. She was known as a tremendous cook, seamstress, crafter, dog lover and sports enthusiast. She was a gentle and loving grandmother to Izak and aunt to Katherine.

William Bentley Hoofnagle Jr. (BA '08 Mānoa), 25, Winter Park, Fla., died suddenly on July 25, 2010. He was a gifted ceramic artist and talented athlete. He is survived by his sister Meredith and his mother Kyle Rollins Hoofnagle.

A s Mālamalama

went to press, Japan was still reeling and the world was still in shock at the devastation from the earthquake and resulting tsunami in Japan.

It has been particularly heartbreaking for the 'ohana at the University of Hawai'i, where so many students and staff have ties through family ancestry, study abroad programs, academic focus and professional collaborations. Japan is home to more than 1,300 active UH alumni.

Across our campuses, the response was quick and generous. Groups, often led by students, collected messages, prayers and funds in the spirit of the values of our host Hawaiian culture to *mālama*, or care for, and *manawale'a*, or give unselfishly.

The University of Hawai'i extends its deepest condolences to those who have lost loved ones in the disaster and our continued heartfelt concern and support for those struggling to cope in the aftermath.

The road to recovery—from the immediate disaster and ongoing challenges as well as the emotional and economic aftershocks—can be long, no matter how resourceful and resilient the people. We urge you to continue to do what you can to ease the burden for those who suffer.

Enlightenment



Pan Am portrait of Charlotte Yamashiro Nishimura, c. 1958

Cover, *Airborne Dreams: "Nisei" Stewardesses and Pan American World Airways*

By UH Mānoa Professor Christine R. Yano

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1955—Disneyland opens in California and Ray Kroc's first McDonalds in Illinois; James Dean dies in a plane crash and Elvis Presley signs with "Colonel" Parker; the Cold War continues and the civil rights movement is born. Against that backdrop Pan American World Airways begins its Nisei Stewardess program, hiring women (not always second-generation or even Japanese American) who could bring exotic appeal to attentive service (think June Cleaver goes geisha). Anthropologist Yano (MA in musicology and anthropology '88, PhD in anthropology '95, Mānoa) explores how a marketing program designed to enhance an airline's worldly image was also the means for young women to forge their own cosmopolitan identity. Her interview subjects were still remarkably proud of their Pan Am connection two decades after the airline's demise and unusually eager to share their stories. What emerges is a picture of the excitement surrounding Jet Age dreams of global mobility that didn't always transcend constraints of gender, class, race and ethnicity.

Interested in Japanese Americans and popular culture, Yano has written about Hawai'i's Cherry Blossom Festival and Japanese popular song. Her next project will examine Hello Kitty.



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Age	Rate	Age	Rate
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		60/65	5.0%
70	5.8%	70/75	5.5%
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