

Kilo iā

2012/JAN//FEB//MAR



WAIKIKI
AQUARIUM

UNIVERSITY OF HAWAII

HŌ'AILONA-KP2

The Newest Member of
the Aquarium 'Ohana





New Year already! In John Lennon's words, "... and what have we done? Another year over, and a new one just begun." Well, here at the Waikiki Aquarium, quite a lot!

Our signature events - Seahunt, Family Night, Ke Kani O Ke Kai, Ocean Literacy Day, World Oceans Day, and others - all continued to deliver enjoyment, entertainment and education to all who participated. Additionally, in February we hosted the Aloha Koi Show for the first time, which was so successful that the Koi Society will hold the annual show here again this coming February. During the year, our native Hawaiian plantings have continued throughout the grounds, and the earlier plantings have become established. New lighting in the foyer and, in the near future, a new reception desk, will improve immeasurably the look and feel of the reception area. The major new Northwestern Hawaiian Islands exhibit opened in September, and, as the coral grows, as algae colonizes the rock surfaces, and as new fishes are added gradually, is looking better day by day.

In August we bade a sad farewell to Nuka, one of our Hawaiian monk seals and a member of the Aquarium family since

1983. And as alluded to in my Summer 2011 message, we have a new addition to the Aquarium family. The juvenile male monk seal Hō'ailona, also known as KP2, joined us in November. Details of his story can be found in the accompanying article in the current issue.

Elsewhere, in preparation for another major new exhibit, behind the scenes construction is underway for two research and holding facilities for seahorses, seadragons and pipefishes. Why two? Well, one is for tropical species and the other for temperate species. Incidentally, if you are interested in helping support this exhibit (the cheapest leafy seadragons are around \$5K each, but more modest contributions are also welcome!), please contact MaryLou Foley, the Aquarium's Community Outreach Director, at 440-9027, for details.

Finally, throughout the year, one thing has remained constant: the commitment of all at the Waikiki Aquarium to provide the best conditions possible for the living creatures under our care, and the best experience possible for you, our FOWA members.

A Happy New Year from us all!

Dr. Andrew Rossiter
Director

Kilo i'a

Issue Number 180

2012/JAN//FEB///MAR

ART DIRECTOR Kelsey Ige

COPY EDITOR Caroline Witherspoon

PRINTING Reskyu

Kilo i'a is published quarterly by the University of Hawai'i and the Friends of Waikiki Aquarium and is dedicated to increasing the community's knowledge of the Waikiki Aquarium and Hawai'i's marine life.

Waikiki Aquarium

2777 Kalākaua Avenue

Honolulu, Hawai'i 96815-4027

PHONE (808) 923-9741

FAX (808) 923-1771

WEB www.waquarium.org

© 2012 Waikiki Aquarium

Printed on recycled paper with environmentally friendly inks.

MANA'O

kilo

Stargazer, reader of omens, seer, astrologer; to watch closely, examine, look around, observe, forecast.

i'a

Fish or any marine animal.

Traditionally, the *kilo i'a* was an expert of fish and marine life. He studied the behaviors and movements of *i'a*. The *kilo* stood at a high point of land overlooking the ocean to watch for an expected school of fish and steered the fishermen in the school's direction. The success of surrounding the school was entirely up to the *kilo*.

Hiroa, T. (1987). *Arts and Crafts of Hawai'i*. Honolulu: Bishop Museum Press.

Puku'i, M.K., & Elbert S.H. (1975, 1992). *New Pocket Hawaiian Dictionary*. Honolulu: University of Hawai'i Press.

Titcomb, M. (1977). *Native Use of Fish in Hawai'i*. Honolulu: University of Hawai'i Press.



Koi Show 2012

After the resounding success of last year's event, the Aloha Koi Society has again selected the Waikīkī Aquarium as the venue for its annual Aloha Koi Show on February 18 and 19. Now established as one of the largest koi shows in the country, over 200 top quality koi will be on display for visitors to view.

Koi, or more specifically, *nishikigoi*, (literally "brocade carp"), are ornamental varieties of domesticated common carp (*Cyprinus carpio*) that are kept for decorative purposes. Common carp were first bred for color in Japan in the 1820s, initially in the town of Ojiya in Niigata Prefecture. By the early 20th century, a number of color patterns had been established, and interest in koi exploded throughout Japan and the hobby of keeping koi eventually spread worldwide.

Koi varieties are distinguished by coloration, patterning and scalation. Some of the major colors are white, black, red, yellow, gold and blue. The most popular category of koi is the *Gosanke*, which is made up of the *Kohaku* (red on a white background), *Taisho Sanshoku* (red and black on a white background) and *Showa Sanshoku* (red and white on a black background).

Be sure not to miss this unique chance to see these and many other varieties at the Aloha Koi Show on Saturday, February 18, and Sunday, February 19. The family-friendly event will also feature expert talks, keiki activities, cultural demonstrations, food and Japan-themed entertainment supported by the Japanese Cultural Center. See you there!



Whale Wednesdays

Join us on Wednesdays throughout the month of February to learn about Hawai'i's Humpback whales with the National Oceanic and Atmospheric Administration (NOAA). Every winter, these magnificent mammals splash into our own backyard. To celebrate, the Waikīkī Aquarium offers a series of educational talks and activities about these beloved warm-blooded marine animals. Join us on the following dates:

Feb 1, Wed	3:00-4:30 p.m.
Feb 8, Wed	10:00-11:30 a.m.
Feb 15, Wed	10:00-11:30 a.m.
Feb 22, Wed	10:00-11:30 a.m.
Feb 29, Wed	3:00-4:30 p.m.

In the Wake of Giants

On February 2, 2011 at 6:00-7:30pm meet Ed Lyman, Large Whale Entanglement Response Coordinator for the Hawaiian Islands Humpback Whale National Marine Sanctuary. Watch the award winning film—*In the Wake of Giants*—featuring some of Ed's most dangerous work. Seating is limited. For reservations, call 440-9027 or email: maryloufoley@waquarium.org.

Spring Into Action: Protect Our Water

During the month of March, the Storm Water Management Program (SWMP) will partner with the Waikīkī Aquarium to educate visitors about storm water pollution. Weekly activities will include a Storm Water Model demonstration and prize wheel for visitors to learn about storm water trivia. Spring into action and join SWMP and Waikīkī Aquarium to learn more about how to protect our water. Visit www.waquarium.org for a detailed schedule.

Hunting for Fun

The ever-popular **SeaHunt** will be hopping our way on March 31, 2012. Keep your eyes and bunny ears peeled for more information to hop its way into your mailbox in early 2012. Additional details will also be posted to our website at www.waquarium.org.





Hō'ailona

The Newest Member of
the Aquarium 'Ohana

Aloha!

My name is Hō‘ailona, I am also known as KP2, and I am the latest addition to the Aquarium ‘ohana. I was born on Kaua‘i on May 1, 2008 and unfortunately was abandoned by my mother after three days because she did not know how to take care of me. I was young, did not know how to take care of myself, and would have starved if my two-legged friends had not rescued me.

These friends, scientists from NOAA (National Oceanographic and Atmospheric Administration) took me in and named me KP2, which is short for Kaua‘i Pup 2. They brought me to O‘ahu and took great care of me. They even hand-raised and bottle-fed me when I was a baby!

When I was ready to go back to the wild, my friends released me on Moloka‘i. Oh how I loved swimming in the ocean again! During my first year I swam to Kaua‘i, O‘ahu, and Lāna‘i before settling at the Kaunakakai Harbor back on Moloka‘i.

I swam and played with the local kids and they brought me treats. But sometimes the kids wouldn’t give me food, or wanted to leave the water before I had finished playing, so I’d push them or stop them from leaving. I guess this was a no-no, because one day the folks from NOAA returned, but this time they caught me and took me back to O‘ahu.

They said I became ‘habituated’ to people, and could pose a danger to them. I don’t think so! Actually, I was looking forward to the day when I reached 500 lbs and could take some of my young friends with me under water to where I hunt – I can hold my breath for 20 minutes, and dive to 300 feet deep, you know! I’m sure they would have been impressed.

I stayed here at the Aquarium while they arranged a place for me to live on the mainland. It was discovered that that my poor eyesight was due to a cataract problem, and it is possible that I will go blind. No one knows why I have this problem: perhaps it was congenital, perhaps it was genetic, perhaps it was something missing in my diet? My eyesight is probably going to get worse with time, and so I can never again live in the wild. I am sad that I will never get to swim in the ocean with my friends again, but I am grateful that they discovered my problem and are taking care of me.

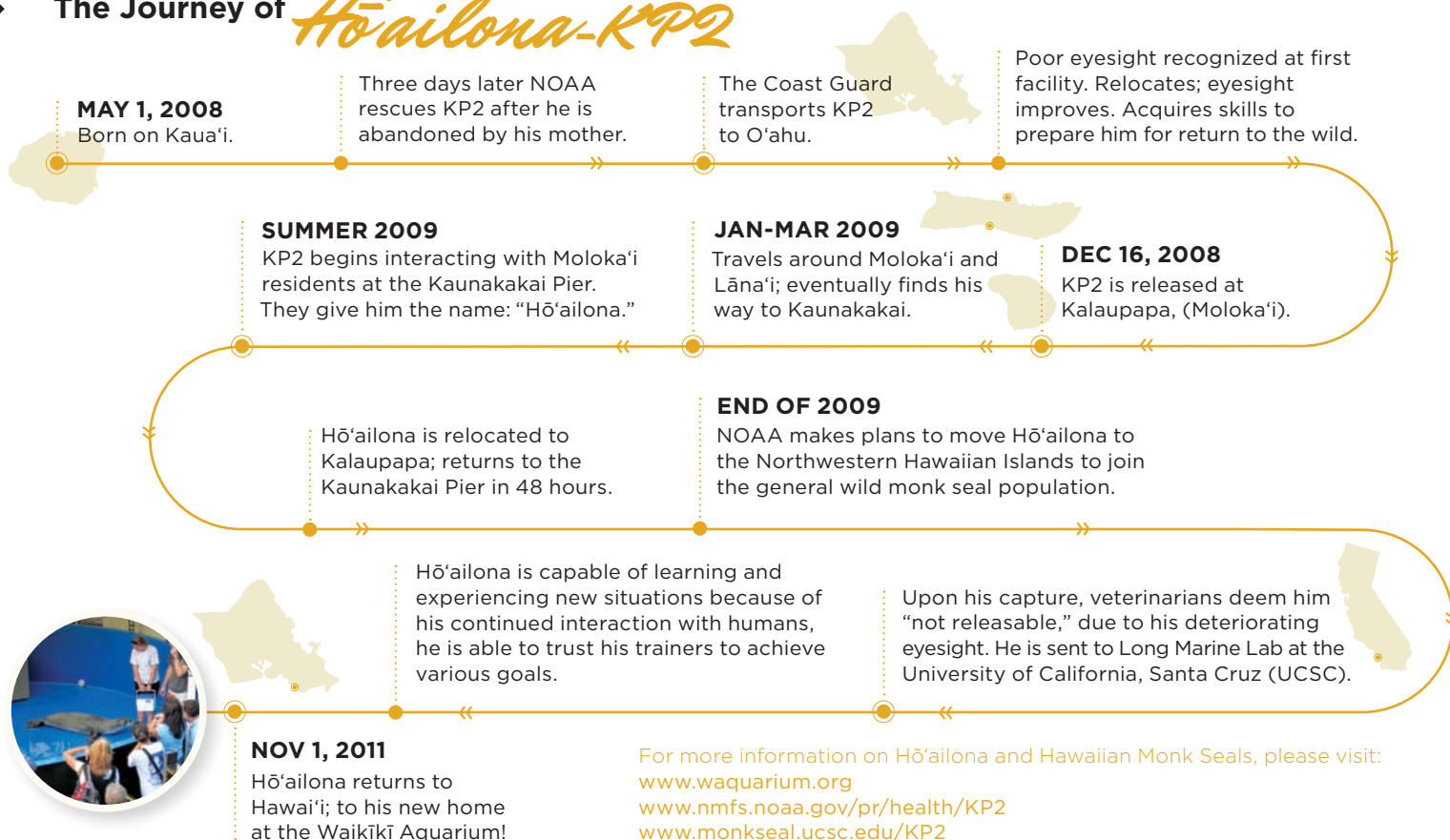
After staying here for a few months, they flew me to California, where I spent almost two years at the Long Marine Laboratory of the University of California at Santa Cruz. There, Dr. Terrie Williams and her team took great care of me. Eventually, there came a time when I had to return to Hawai‘i, my home. The Waikīkī Aquarium kindly agreed to provide for me. On November 1st, some staff from Terrie’s lab, a few staff members from NMFS (National Marine Fisheries Services), Leah, my new Waikīkī Aquarium caretaker, and I got on a transport plane to return to O‘ahu. I don’t remember much because I slept most of the way (we monk seals love to sleep, by the way).

My new friend, Maka – the monk seal who has been at the Aquarium for almost 25 years – told me there is no place like the Waikīkī Aquarium: deluxe accommodations, a balanced diet, exercise, medical attention and an abundance of tender loving care, are all part of the deal. Sometimes we even take part in research projects!

Andy, the Director at the Aquarium, says they are providing me a home because I cannot return to the wild. He believes only monk seals that cannot take care of themselves in the wild should be kept in captivity. Since I will be here for the remainder of my days, I can be an ambassador for my species and alert Aquarium visitors to the plight of my relatives in the wild. Maybe that’s what he means when he says I “belong to nobody and belong to everybody.” I like that! 🐾



The Journey of *Hō'ailona-KP2*



Figuring Out Behind the Scenes of the Aquarium



167 The number of coral species in the Aquarium's living collection.

2,175

The total number of invertebrates in the Aquarium's living collection.

234

Total number of active Aquarium volunteers.

4,500

How much electricity is used per day, in kilowatts.

75

Number of Waikīkī Aquarium employees, as of November 2011. Includes full-time staff, students and casual hires from the Aquarium and Hanauma Bay.

6,000

The number of gallons of seawater picked up by members each month.



300,000 Gallons of water used each month.

41,000 The dollar amount of the Aquarium's monthly electrical bill.

Take Five: Sand



Most of our beautiful white beaches in Hawai'i are made of calcium carbonate sand, derived from marine organisms such as coral skeletons, seaweed, algae, snail shells and sea urchin spines. These organisms are broken down into sand by other animals or through wave action and consequently produce our sandy beaches. Interestingly, every natural beach has its own unique source and type of sediments, making the identification and tracking of sand movement possible.

These days, there's more to beach sand than just that... unfortunately. Sand is now comprised of many anthropogenic materials; mostly plastics that float down streams, canals, and storm drains and then are transported by ocean currents. Most plastic is not biodegradable and can remain on beaches

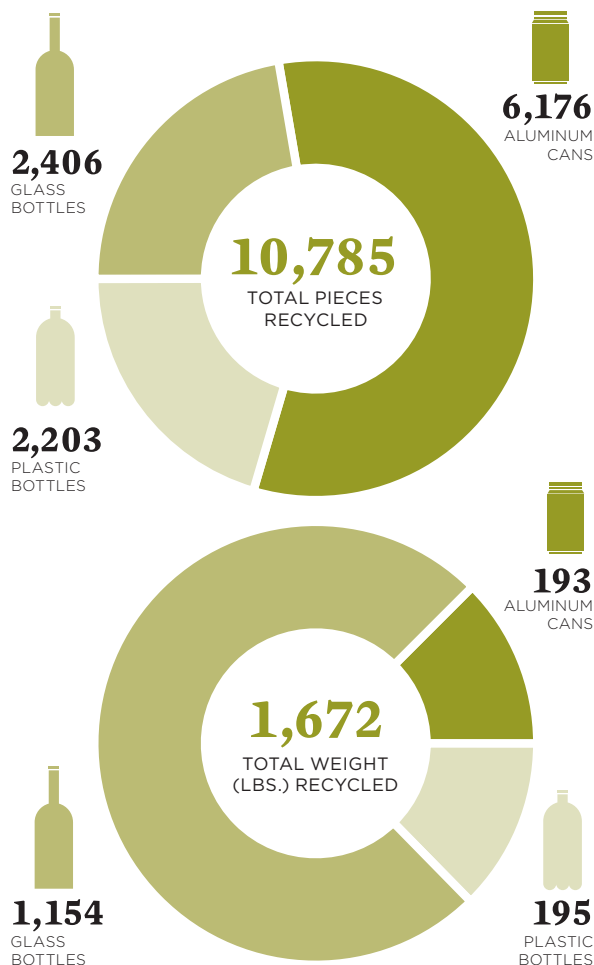
or in the ocean for hundreds of years, having a negative impact on seabirds and marine reef animals. Research shows that the most commonly used plastics degrade very slowly and break into microscopic particles tinier than the human eye can see. These microscopic plastic particles contain dangerous pollutants and have recently been found in marine plankton (Rios et al., 2007), the base of the food web in the ocean environment. Organisms that eat planktonic plastic are therefore ingesting concentrated pollutants that are then introduced up through the food web to marine life that finally wind up on our dinner tables.

So what are five simple things that we can do in our daily lives to help prevent this pollution of our beaches?



A Greener Aquarium

RECYCLABLES COLLECTED
FROM OCT 2010-SEPT 2011



In the summer of 2009, new HI-5 bins were purchased and labeled and placed around the Aquarium grounds for visitors and guests to toss in their aluminum cans and plastic bottles. Glass beer and wine bottles are also collected from private facility rental events, and Aquarium events such as Ke Kani O Ke Kai. The recyclable containers are collected, sorted, and redeemed by Aquarium staff, and the money is used to offset the cost of Aquarium operating supplies. Rather than using plastic disposable trash bags to transport the recyclables, one of the Aquarium's Facilities Maintenance staff had the idea to purchase large, mesh bags that can be washed and re-used, thereby making the whole process a little greener. The Waikiki Aquarium is proud to take a more proactive role in its ongoing mission through sustainable practices.



Marine Protected Areas

Marine Protected Areas are critically important for conserving biological diversity.

Like underwater national parks, Marine Protected Areas (MPAs) serve as important refuge areas for many marine species, some of them threatened by overharvesting or the loss of feeding and breeding habitats.

Hawai'i quickly recognized and demonstrated the importance of MPAs. In the 1990s, the population of Yellow Tang (*Zebrasoma flavescens*) was on the verge of collapse as a result of loss of habitat and as by-catch victims in gillnets. Nine MPAs were established off the coast of the Big Island in an effort to rescue the species.

Yellow Tang larvae drift on ocean currents before settling on a reef – this process is known as larval drift. Larval drift is widespread among most marine fishes and ensures that populations are established in more than one location, thus reducing the vulnerability of a species in case any of the locations are damaged or destroyed.

Consequently, MPAs are important refuge areas that function best as environments where species' populations can be established. Successful MPAs can sustain fisheries beyond their borders as well as maintain species' populations across nearby MPAs (sometimes over 100 miles away). Fishes protected in MPA reserves can grow to full reproductive maturity, and many of their larvae settle on to the reefs within and outside of the MPA.

Convinced of the critical importance that MPAs play in maintaining biodiversity in the world's oceans, the Waikiki Aquarium Director Dr. Andrew Rossiter recently took part in an international meeting held at the National Aquarium in Baltimore, Maryland.

The meeting was organized by three federally funded organizations: Commission for Environmental Cooperation (CEC), North American Marine Protected Area Network (NAMPAN) and Coastal Ecosystem Learning Centers (CELCs). The almost 40 invitees consisted of scientists, biologists, educators and policy-makers from Canada, the United States and Mexico. The meeting aimed to design a comprehensive program for public education and community outreach to generate support in hopes of raising awareness about MPAs.

Currently, only about 1.2% of our global ocean area is designated as MPAs. Few people are familiar with these areas – where they are, what they do, and who can use it. There are approximately 6,800 MPAs. Hawai'i has one of the largest in the United States – the Papahānaumokuākea Marine National Monument. In the interest of conserving and protecting the MPAs' natural environments, as well as any cultural and historical resources, human activities are limited. These areas often allow for diverse uses*, such as fishing, recreational diving, boating and other activities.

The Waikiki Aquarium is excited to be a part of the international effort on MPAs. With our existing leadership in the field, we are optimistic that we will continue to support and promote public education and outreach to raise awareness of MPAs. The nine MPAs off the coast of the Big Island saved the day for the Yellow Tang and those of us who value biodiversity and marine resources. This beautiful fish, highly valued in the aquarium industry, is once again thriving. 🐟

*Less than 1 percent of U.S. waters are "no-take" areas where fishing is prohibited. In fact, some fisherfolk in the Mediterranean have found that the best fishing areas are just outside MPAs because they serve as protected areas for adult breeders and nurseries for juvenile fishes.

Mahalo, Vangie!

It's time to tip our fins and say aloha to the Waikiki Aquarium's Volunteer Program Coordinator, Vangie White. This incredibly passionate and hardworking individual has played an instrumental role in building and managing the Aquarium's volunteer program, and we're sorry to see her go.

Vangie first joined the Aquarium as a volunteer herself, leading school tours as part of the docent program. In 2009, she became the Volunteer Program Coordinator, interviewing potential volunteers, conducting training, coordinating schedules and enhancing the overall experience of our more than 200 active volunteers.

During her time at the Aquarium, it was common to find Vangie interacting with volunteers and docents within the Galleries as well as during special events such as the popular Ke Kani O Ke Kai Summer Concert Series. She always put the needs and concerns of the volunteers first and it showed in their dedication and passion in return to the Aquarium and its visitors.

We wish Vangie all of the best as she pursues her other passions. Mahalo and a hui hou!



PICTURED ABOVE (from L to R) Maritza Lopez-Holland, Vangie White and Bart McGeehon

Farewell



PHOTO: ALICE KEESING

"I volunteer because I love the Aquarium! The animals and fish are beautiful. It's a lively place and I've seen it grow: the Edge of the Reef was built, the seal pool was moved, the dolphins left. The staff has changed and people have moved on, but all were friendly and delightful and the present staff are very considerate and friendly... The most rewarding part of volunteering is meeting all kinds of people from all over the world who are shopping for their loved ones. It's good knowing that I am part of a team that helps the Aquarium."

With heavy hearts, the Waikiki Aquarium bids a fond farewell to Eileen Awai who passed away in late November. Eileen had been a part of the Aquarium 'ohana for over 25 years (she was even lucky enough to witness a nautilus hatching, for the first time behind the scenes!). She was a volunteer for the Aquarium's

Natural Selections Gift Shop after retiring from 30 years of teaching in Hawai'i's public schools.

She was featured in the *Kilo i'a's* Volunteer Spotlight in the Summer 2010 issue (number 174). Eileen is deeply missed and the Aquarium sends its condolences to her family. (continued on page 15)



A Warm Welcome

The maile was draped in a welcoming ceremony for Hō'ailona led by Kahu David Kaupu. The beautiful sunrise ceremony was held on the morning of December 15th. A lei of kuku'i, woven by Hō'ailona's Moloka'i 'ohana, representing his stay on the island of Moloka'i, and a ho'okupu of pa'a kai (Hawaiian salt) from the island of Kaua'i, to represent his place of birth, were presented as welcoming gifts to Hō'ailona. In attendance were representatives from NOAA, the Moloka'i community, media and Waikīkī Aquarium staff. Hō'ailona has officially found a home at the Waikīkī Aquarium.



PHOTO AT LEFT (from L to R) Karen Holt, Kahu David Kaupu, Dr. Andrew Rossiter and Lisa Croft.

ON BOARD



Name

Nancy Taylor

Joined FOWA board

December 2010

Can also be found at

Taylor, Leong & Chee, where she works part-time as a legal researcher. Otherwise you may find her wearing her artist's hat, with watercolors and paintbrushes in hand.

Education

University of California, Berkeley, BA sociology; Coro Foundation in San Francisco, graduate internship in public affairs and leadership.

Favorite Aquarium resident

The spotted knife-jaw — the fish that came to the Aquarium via marine debris. The fact that it is the only one of its kind in captivity anywhere in the world, coupled with the unique way it was obtained makes it the perfect ambassador from the Northwestern Hawaiian Islands.

Roots

I came to Hawai'i in 1968 with my husband, Carroll. I worked professionally for the next 30 years in several different capacities, including speechwriter for the Office of the Speaker in the state House of Representatives, executive director of Aloha Festivals and president of Nancy Taylor & Associates. Some boards and committees that I have been involved with are the Hawai'i Watercolor Society, Windward Community College, President's Advisory Committee on the Arts, Palikū Theater, Aloha Week and the

Governor's Advisory Committee on Housing. And the best part of all: My husband and I raised five wonderful daughters in the Islands: Heather, Kimberly, Tori, Tiffany and Tacy.

What inspired you to become a FOWA board member?

The Aquarium's recent involvement with the Papahānaumokuākea Marine National Monument seemed incredibly interesting and exciting to me. While I've always enjoyed going to the Aquarium over the years, this new involvement with Northwestern Hawaiian Islands ushers in a whole new level of excitement and I was interested in being involved as this evolved.

What do you enjoy most about the Aquarium?

The Aquarium's gorgeous location is amazing. Over the past three years, two of my daughters held their wedding receptions there, so I can say, with certainty, there is nothing more lovely than a Waikīkī Aquarium wedding reception!

What do you believe is the Aquarium's role in Hawai'i?

I am just beginning to understand some of the breadth of the Aquarium's role in our community. It is certainly a huge resource for learning, for adults and especially for children. It seems evident that the Aquarium will play an increasingly important role in enhancing our state's awareness of the importance of protecting our oceans, particularly with the new relationship with the Northwestern Hawaiian Islands. This is an immense opportunity that I believe can exponentially increase the visibility, viability and importance of the Aquarium both in Hawai'i and beyond.

On a personal note

I have a myriad of interests that I have not had much time to delve into while working and raising my family. But now that all my girls have graduated from college, I am now beginning to be involved in some of my interests, including various artistic mediums and writing.

There are 18 people currently serving on the Friends of the Waikīkī Aquarium board. To acquaint you with these people who volunteer their time to help the Aquarium, Kilo i'a features one board member in each issue.

Exploring the Reef at Night

Jan 7, Sat 6:30-9:00 p.m.
 Jan 21, Sat 6:30-9:00 p.m.
 Feb 6, Mon 6:30-9:00 p.m.
 Mar 6, Tue 6:30-9:00 p.m.
 Join us as we explore the reef at night in an experience you'll not forget. Aquarium staff and participants wade up to their knees on these wet and wild excursions. We'll look for crabs, shrimps, eels and octopus. For adventurers ages 6 and up; youngsters must be accompanied by an adult. \$15/adult, \$9/child (\$18/\$12 for non-members).

Aquarium After Dark

Jan 27, Fri 6:30-8:30 p.m.
 Feb 10, Fri 7:00-9:00 p.m.
 Mar 15, Thu 7:00-9:00 p.m.
 Mar 22, Thu 7:00-9:00 p.m.
 Discover if fish sleep, sea snails snooze and what roams around at night, on an after dark flashlight tour of the Aquarium exhibits. Minimum age 5 years; youngsters must be accompanied by an adult. \$10/adult, \$7/child (\$14/\$10 for non-members).

In the Wake of Giants

Feb 2, Thu 6:00-7:30 p.m.
 Meet Ed Lyman, Large Whale Entanglement Response Coordinator for the Hawaiian Islands Humpback Whale National Marine Sanctuary. Watch the award winning film—*In the Wake of Giants*—featuring some of Ed's most dangerous work rescuing 40-ton humpback whales and some of the equipment he uses. Seating is limited. Free. For reservations, call 440-9027 or email: maryloufoley@waquarium.org.

Small Fry

Jan 18-Feb 15, Wed
 A Session 8:30-10:00 a.m.
 B Session 10:30 a.m.-noon
Apr 4-May 2, Wed
 A Session 8:30-10:00 a.m.
 B Session 10:30 a.m.-noon
 For the youngest learners. An adult and their 1- to 3-year-old team up to discover the amazing undersea world of the Aquarium. Five weekly sessions include crafts, song, play and exploration of the exhibits. For adult-child teams. \$60/adult & child (\$80 for non-members).

Science Club, For Teens! Underwater Robotics

Wed afternoons
 Jan 25-June 2 3:30-5:00 p.m.
 Through its partnership with the Waikiki Aquarium, the Marine Advanced Technology Education Center (MATE) is bringing its beginning level Underwater Robotics program to area students. Students will design, build, and pilot a fully operational underwater ROV (Remotely Operated Vehicles). MATE uses underwater robots as a way to get students excited about learning Science, Technology, Engineering, and Math (STEM). The program also exposes students to and helps them to see the pathways to ocean STEM career opportunities. Interested teens should apply online at <http://goo.gl/eWKHb> by January 12th. Students must commit to the full 4-month program. The class will culminate in an ROV competition. For aspiring engineers ages 12 to 17. All materials provided. \$35/student, (\$50 for non-members).

Afterschool at the Aquarium

Every Wed 3:00 p.m.
 Looking for something to do after school? Every Wednesday, the Aquarium hosts an interactive activity on the lawn. You can enjoy stories by the sea, or maybe a critter encounter or sometimes a creative movement session. The activities last anywhere from 10 to 20 minutes and are designed for ages 4 to 8, but everyone is welcome. Free with admission to the Aquarium.

Marine Munchies

Jan 23, Mon 4:30-6:00 p.m.
 Feb 27, Mon 4:30-6:00 p.m.
 Mar 12, Mon 4:30-6:00 p.m.
 Mar 19, Mon 4:30-6:00 p.m.
 Discover animals' adaptations for capturing their meals and what they eat here at the Aquarium. Included is an exclusive after-hours animal feeding. Watch the octopus open a jar to get its dinner. Feed a sea anemone, and the animals in the Edge of the Reef exhibit. Minimum age 5 years; youngsters must be accompanied by an adult. \$16/adult, \$12/child (\$20/\$15 for non-members).

s	m	t	w	r	f	s
1	2	3	4	5	6	7 JAN
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

			1	2	3	4 FEB
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29			

				1	2	3 MAR
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

Look for class updates on:
www.waquarium.org
**PRE-REGISTRATION
REQUIRED**

ACTIVITY REGISTRATION FORM

NAME(S)

Adults _____ Phone (Home) _____

Children/Ages _____ Phone (Work) _____

Address _____

City/State/Zip _____ Email _____

PLEASE REGISTER ME FOR

Activity	Session	Date(s)	Number of Adults/Children	Price
_____	/	_____	_____	_____
_____	/	_____	_____	_____
_____	/	_____	_____	_____
_____	/	_____	_____	_____

Total amount of payment enclosed (check payable to "University of Hawai'i"):

IF PAYING BY CREDIT CARD

 Credit card # _____ ☐ VISA ☐ MC

Expiration Date _____ Last three digits of security code on back of card _____

 I am a FOWA Member ☐ Yes ☐ No


PREVIOUSLY SEEN...



**Members' Night
with the Syngnathids**
NOVEMBER 13, 2011

REGISTRATION INFORMATION

- » Pre-registration is required for all activities.
- » FOWA members are allowed up to four total registrants at FOWA rate.
- » Questions about the activities? Call the Waikīkī Aquarium Education Department at **440-9007**.
- » A handling fee of \$5 will be assessed for withdrawals.
- » No refunds can be made for no-shows or for withdrawals made seven days or less before an activity.

To register by phone:

- » Call **440-9011**. Visa and Mastercard are accepted.

To register by mail:

- » Full payment must accompany completed registration forms. Please, no cash.
- » Make checks payable to University of Hawai'i. Visa and Mastercard are also accepted.
- » Mail the completed registration form with a check or credit card information to:



Waikīkī Aquarium
Education Department
2777 Kalākaua Avenue
Honolulu, Hawai'i 96815-4027





SEA SQUIRTS

REEF RIDDLES



Combine the pictures to find the names of some "fishy" friends from the Northwestern Hawaiian Islands!

a  +  = _____



b  +  = _____





c  +  +  = _____





d  + **ED** +  +  = _____

e  +  = _____



f  +  = _____

g  +  = _____

h  +  +  +  = _____

i  +  +  +  = _____

j  +  +  = _____

k  + **ED** +  +  = _____

a. spaghetti worm, b. rice coral, c. raccoon butterflyfish, d. banded coral shrimp, e. convict tang, f. dragon, g. tiger shark, h. yellowbar parrotfish, i. fantail filefish, j. leaf scorpionfish, k. bearded armoured

NEW & RENEWING FOWA MEMBERS

The Membership Office recorded these new and renewing memberships between Aug. 13 and Nov. 16, 2011.

Shelley & Ty Ah Nee
Ken Allison & Lisa Grant
Dr. & Mrs. Anderson
Dr. & Mrs. Bruce S. Anderson
Charles & Alison Arista
Mr. & Mrs. & Misoon Lee Asato
Mary Ascheman &
 Suzanne McGuire
Mr. & Mrs. David F. Asmus
Patricia Conjugacion Augustine
Raleigh & Judy Aways
Mr. & Mrs. R. Badwi
Al & Kate Barbieto
Mr. & Mrs. Charles Barclay
Mr. Joshua Barnes &
 Dr. Julie Iezzi
Helen J. Baroni & Rodman Low
Sandra & James Bassett
Mr. & Mrs. Bayne
Mr. J.D. Bayudan
Michael C. Becher
Meleomailani & David Beeman
Mr. Stewart K. Bell, Jr.
Martin Benedek
Ron and Gina Benner
Dr. Glenn M. & Mrs. Luci Biven
Mark & Carolyn Blackburn
Deborah C. Blair
Robert Boulette
Mr. Thomas Brand
Steve Brooks & Adele Panui
Jeff & Rebecca Brown
Mr. & Mrs. Randal Bruckner
Bianca Bryant-Greenwood &
 Peter Bryant-Greenwood
G. D. Bryant-Greenwood
Jesse Bryden & Kerilyn Kwock
Tamara & Joel Buchwald
Vicki Bunao
Thomas Burke & Marie Wagner
Robert Calvert & Mary Rydell
Lori & Alan Cardona
Wilma & Brittany Anne Caron
Jean M. Carr
Mr. Stanford Carr &
 Mrs. Kathy Carr
Ms. Janu Cassidy &
 Mr. Jeremy Spear
Lisa & Benjamin Cazimero
Warren Chaiko & Tiffany Chaiko
Chi Chi & Aidan Millar
Sandra Champion
D. Chan
Dr. John Chan &
 Mrs. Lianne Chan
Mr. & Mrs. Richard Chang
Mr. Walter T.C. Chang &
 Ms. Xiaolei Pang
Robert C. Chang
Chad Chapman & Family
Ms. Rhonda Char &
 Ms. Shannon Ellis
Janny Chen & David Cho
John & Jenny Chen
Charlston Cheng
Cherylynn & Geoffrey Cheng
Michelle & Joshua Ching
Ms. Stefanie Y. Ching
Satyavati & Michael Chock
Stephen & Gloria Chong
Ayres Christ & Jamie Chun
Andrea & Benjamin Chun
Kenneth B. Chun
Michael & Margaret Chun
Michael & Tracy Chung

Sang Don Chung & Hye Ri Joo
Karla & Teri Claybaugh
Mrs. Jody Conjugacion &
 Mr. Mel Conjugacion
Mr. & Mrs. Michael Connolly
Shelley Coscina
Roger Couture &
 Darlene Weingand
Mr. & Mrs. Domingo Cravalho, Jr.
Ms. Pamela Cress
Bob Crone
Mr. & Mrs. Ronald R. Cunitz
Dave & Heidi Daniels
Mr. & Mrs. Orlando Davidson
Raymond Davidson
Patricia & Kyle Davis
Mrs. Heather Deigert
Ruben Dela Cerna
Mr. J. Blaine Rogers
Ruby Delbeek
Joanna DeRyke &
 Shannon Walker
Mr. & Mrs. Jeff DeVilbiss
Samuel E. Dixon
Robert Dods Jr. & Jean Dods
Chris Dossey
Robert Duchek & Todd Janovicz
Virginia Dunn
Barbara Dwyer &
 Bridget Dwyer-Dial
Marley, Myndee, Molly &
 Mayzee Dyer
Bryon & Michelle Edwards
Marie & Nofo Eletise
Asako & Greg Elzea
Jenny & Ryan Engle
Alden E. Esping
Ron & Vicky Espiritu
Mr. & Mrs. Bernard Fajota
Robert J. Faris & Melanie M. Lau
Kathrine Fast
Robert and Patricia Faus
Dr. & Mrs. Michael Fazio
Keaka Fernandez
Donna Festa
Marc Fisher & Kris Miller-Fisher
Chris & Kevin Folan
Bill & Susan Friedl
Mr. Lee Funai
Christopher & Ayashi Furtado
Mr. & Mrs. Tyler Furukawa
Mrs. Dawn Furumoto
Ms. Lila D. Gardner
Sally Glenn
Joel Gonsalves
Mr. & Mrs. Jeffrey R. Goodwin
Ms. Sharon Gordon
Craig Gorsuch
Mr. Christopher Goshi
Lindsay L. Gray
Juergen Gross & Claudia Wagner
Roger Grove
Mr. & Mrs. Warren Haight
Justin Hamamoto &
 Jason Arakaki
Mr. & Mrs. Allen H. Hanamoto
Mrs. & Mr. Hanlon
Daniel Hartline & Petra Lenz
Patricia & JV Harwood
Mr. Daniel Healy
Mrs. Nery Heenan
Dr. Philip Helfrich
Mercedes K. Hendrickson
Korynne Higa
James Hildenbrand &
 Joyce Neeley
David Hirano & Jamie Chung
Sean Douglas Hoban
Warren Holcomb
William Honbo
Maggie Hong

Mr. Mealoha Hooten
Mark Hostetter & Alex Habib
Kimberly Howsley &
 Roger Rudoff
Dean Hu & Yolanda Wu-Hu
Grace & Robert Hu
Dr. & Mrs. Christopher Huang
Mr. & Mrs. John Hufana
Ali Imessaoudene &
 Mary Moallempour
Mark & Tara Inay
Brad & Kelli Isa
Jean & Jay Ishida
Allison Ishii & Todd Blankenship
Darren Ishii
JoAnn S. Ishii
Ray & Connie Itagaki
Mikiko & Dennis Itoga
Daniel & Kimberly Jacobson
Mrs. Keiko Jaffuel
Melinda Jones
Frank & Virginia Jordan
Lisa Kahikina & Sean McNamara
Ann Kai-Millard & Peter Millard
Judy Kamm
Mr. & Mrs. Guy Kaneshige
Mr. & Mrs. Heith Kaneshige
Jeffrey & Renee Kaneshiro
Mr. & Mrs. Kenneth M. Kaneshiro
Howard & Audrey Karr
Linda & Rodney Kato
Stanley & Stephanie Kato
Shiralen & Milton Kawasaki
Guy Kellogg & Hanh Nguyen
William Kern
Cody & Lani Kikuta
Jonathan & Anne Kim
Jonathan & Edwina Kim
Mrs. Karey Kim
Horst & Gloria Klein
Dennis & Jane Kobayashi
Donald & Kim Kobayashi
Calvin & Ava Koike
Duane & Cara Kondo
Colin Kop
Janet Kosaka &
 Craig Mastumura
Craig & Miriam Koyanagi
Mr. & Mrs. Randy Kuhau
Hankie Kuniyoshi
Gregory Kupsky &
 Amanda Buehrig
Mr. Ryan & Mrs. Julie Kusuda
David & Siuling Kwan
Sybil S. Kyi
Derrick & Lauryn Laguatan
Dr. & Mrs. Patrick J. Lam
Mr. Wilson Lam
Mrs. Valerie Landers
Kaileilani Lily Lapp
David E. Latham
Michael Lau & Lynn Iwamoto
Alan Lee & Christy Takamure
Arthur & Sylvia Lee
Mr. & Mrs. Isaac M.F. Lee
Mr. James H.Q. Lee
Mr. Ken Lee
CDR Deane E. Leidholt
Mr. & Mrs. William B. Lennan
April K.Y. Leong
Marion & Rochelle Leong
Aaron & Sharleen Levine
Phil & Susan Li
Stathis Limberis
Daniel & Holly Linquist
Sonia Lipka & Ona Matthew
Wilbert Liu
Mark Livingston
William Lofquist
James J.Y. Louis
Mr. & Mrs. Tim Lucas

Adele & Blair Akiona
Jenny Lum
Dr. Frank Lutz
Matthew & Tracey Lyum
Mrs. Nancy Lyum
Jon & Selina Mann
Kaleen & Jason Martin
Mr. Gary Marushige
Dr. & Mrs. Donn Ryo Marutani, M.D.
Mr. Chris Mashiba
Russell & Gail Masui
Janie Masunaga &
 Anne Cunningham
Site Engineering
Mr. Jon Matsuda
Mr. & Mrs. Randall I. Matsumoto
Scott & Jill Matsumoto
Myrna M. Mattix
The Matula Family
Michael M. May
Sherwood D. Maynard &
 Liz Kumabe
Mr. David McCaskey
Mr. Richard McCauley
John McComas &
 Christine Kobayashi
Paul McDonnell
Mr. & Mrs. McGuire
Mr. & Mrs. Jonathan McManus
Bonnie B. McMullen &
 Rabbi Melvin L. Libman
Louisa & Patrick Medora
Mark & Claudia Mekarua
Ine Miller
Dr. & Mrs. Li Chung Ming
Beverly Miram-Chu &
 Douglas Chu
Brandon Miyashiro
Mr. Mora
Mr. & Mrs. Milton Morishige
Blake & Aline Mosley
Karl T. Murai
Marynell Muraoka &
 Stella Chang
Silvana Murphy
Shannon Murphy &
 John Trowbridge
William & Miriam Murphy
Mr. & Mrs. Dennis Gosser
Dr. William D. Myers
Mr. & Mrs. George I. Nagao
Daniel Nakagawa
Dale & Gary Nakamatsu
Harold M. Nakamura
Mr. & Mrs. Jason Nakamura
Cass & Tina Nakasone
John and Lois Nash
Michael Nash
Wylie Nash & John Holzach
Edwin & Heather Navarro
Kristin & Elton Nichols
Howard & Barbara Nihei
Gene & Verna Nishimura
Cathy Oberholzer
Stephen & Geraldine Ochikubo
Mr. Robert Oda &
 Mrs. Tara K. Oda
Barbara Ohelo
Alan Okamoto
Linda Okita
Leilani Okuda
Mr. & Mrs. Jon Okuma
Jeanette Orihuela
Mr. and Mrs. Michael Goodman
Richard Oshimo
Mr. Glenn Y. Ota
Mr. & Mrs. Wendell Y. Oumaye
Noelia R. Paez
Daphne & Shanlyn Park
Lt. Col & Mrs. John D. Paulin
 (USMC, Retired)

Mr. Ben Peralta
Lynn Peters
Barbara & Robert Picayo
Tyson P. Pizarro &
 Krystal Koshimizu
Jason Poe
Robert & Dawn Poiani
Dan & Robin Polhemus
Dr. & Mrs. Leonard Portner
Angela Pratt
Mr. David Prinzavalli
Mr. & Mrs. Mark Rabe
Mr. Matt Ramsey
James Rapisarda
Scarlet Ray
Dr. & Mrs. Keven Reed
Mr. Roger Reeves
Patricia Richardson
Serena & Steven Risso
Kimberly Rivera &
 Kimberly Fariene
Mrs. Roesjorde
Karen Rohter
Rebecca & Bradley Romine
Mrs. Marina Roytman &
 Mr. Peter Pooerzen
Georgia S. Rush
Kazumi Sakashita
Tiffany Sakumoto
Michael Sanders &
 Teresa Leastoe
Carlos A. Santana
Kennie Sato
Nobuo & Aileen Sato
Mr. Corey Savinski &
 Ms. Leilani Pascua
Marco Schlessler & Malia
Schlessler
Paul Schultz & Mun-Won Chang
Andrew Schworer
Larry J. Shapiro &
 Carol Ann Uetake-Shapiro
Benjamin & Miwako Shen
Mr. Siraj Sheriff
Nelson & Valerie Shigeta
Jennifer Shim & Lei Miura
Mr. Dennis Y. Shimabukuro &
 Mrs. Judy K. Shimabukuro
Melvin & Annette Shinsato
David Siu
Gary & Meagan Smedley
Dr. & Mrs. Daniel C. Smith
Erik & Hiroko Smith
Architect & Mrs. Sid Snyder
Tai Sorenson
Ms. Sylvia Spalding
Rachel Spector
Ms. Edwyna C. Spiegel
Ronald Sprink
Heather & David Stegall
Susan K. Steinemann &
 John D. Kronen, Jr.
Dr. & Mrs. Gary D. Stice
Dean Stowell & Piikea Miller
Dane Sultz &
 Melisa Medalle
Mr. & Mrs. Sultz
Jose & Rosemary Sumajit
Dennis & Diana Sumida
Kele & Vili Sunia
Clark N. Suzuki
Joshua & Crystal Swigen
Mr. & Mrs. James Kellett Tam
Elaine E. Tamaye
Mr. Masaya Tanaka
Tracy Tanaka & Bill Tobin
Amy A. Taniguchi
Jean S. Tanimoto
Shawn Taras &
 Heather Conahan-Taras
Shawn & Trixy Tasaka

(continued from page 9)

Gifts in Memory of Eileen Awai

We would like to thank those who have made donations to the Waikiki Aquarium in memory of Eileen Awai. If you are interested in making a contribution in memory of Eileen, please contact the Aquarium's Community Outreach Director, Marylou Foley, at 440-9027.

Mahalo for your donations

George Akita
Jean Carr
MaryLou Foley
William and Lucille Massicott
Ann Noyes
Darlene N. Peck
Dr. Andrew Rossiter

Yvonne Tatsumura &
Benjamin Fogelgren
Dr. & Mrs. Brian Taylor
Ms. Nancy Taylor &
Mr. Carroll Taylor
Dr. & Mrs. Christopher K. Teramura
Peter E. and Barbara L. Thacker
Rubylyn & Paul Thornton
Yumiko Tom
Scott Tomlinson & Britta Davis
Rie & Jeffrey Tong
Dr. Rob Toonen & Dr. Carol Fong
Pat & Jen Tosaki
Craig Tottori
Mabel Trafford & Stephen Miller
Craig & Karen Tsukiyama
Robert & Yoko Uyehara
Rose Marie Vergara &
Hugo Higa
Randy & Susan Vogts
Alexander & Sambi Vovin
Zach & Camille Waldon
Mr. & Mrs. Charles Wang
Phil & Caroline Wang
Mike & Deborah Washofsky
Jeffrey & June Watanabe
Ed & Katie Weldon
Ms. Kari Wilhite &
Mr. Randy Shaw
Jemery & Cassandra Willes
Qaaid Williams
David G. Wilson
Mrs. Merium N. Wisnosky
Mimi Wisnosky-Chang &
Rick Chang
Mimi & Christopher Wolfe
Vern & Dee Wong
Martin & Jeanie Wyss
Shane & Joey Yadao
Thomas & Ami Yamachika
Mr. Lenn Yamada
Alan Yamamoto
Mr. & Mrs. Cary Yamamoto
Mr. Tracy Yamato
S. Saito
Mr. & Mrs. Thomas T. Yamauchi
Mr. & Mrs. Jonathan Yang
Marcus & Gaile Yano
Mrs. & Mr. Yates
Celina Yee-Izon & Darin Izon
Teresa Yicki
Michael Yoneshige
Joyce & Paul Yoshimoto
Don & Judi Young
Mr. & Mrs. Dean Young
Terry Thomas Young
Mr. & Mrs. Henry Younge
Jay-Dee Yu-Cote & Audrey Cote
Mr. & Mrs. Elmer Y.S. Yuen
Mike & Jamie Zane
Mrs. R. Zapata

If your name is not listed or is listed incorrectly, please accept our apologies for the error and our most sincere thanks for your support.

Waikiki Aquarium Membership: A Positive Way to Connect

Larry and Cindy Stenek became Waikiki Aquarium members in 1994 when their children were just 4 and 1. They chose the Aquarium because it was a great place to take the kids and, according to Larry, it “does good things.” For the Stenek children, now 21 & 18, the ocean is still a part of their lives and enjoyment. Members for 17 years, the Steneks continued to renew their Waikiki Aquarium membership for a number of reasons: affordability, feeling like they’re contributing to something positive and being able to stop in casually to “say ‘hi’ to the seals.” Larry encourages other people to become members because it’s “fun, especially for young kids, and an easy way to connect with the life around us.” He feels that the Aquarium’s education and research projects are worth supporting. “Our population has a fairly low percentage that looks toward the ocean. Most of us habitually look away from the ocean and tend to lose connection with it, focusing just on inner-city activities, so any contact is positive.” he said.

Ocean-enthusiast, fisherman and longtime member Karl Murai said his membership helps him to foster his love of the ocean and keeps him informed about the exhibits and program updates at the Waikiki Aquarium. He especially enjoys the easy-access to exhibits to view sea life that’s not

always easy to view in the ocean. For Karl, another 17-year member, membership also makes it possible for him to support the preservation and awareness of all that the ocean has to offer.

The Waikiki Aquarium acknowledges the support of its 2,700 members and would especially like to recognize its long-time members who have supported the Aquarium through membership for more than 15 years.



ABOVE: Larry and Cindy Stenek
PHOTO COURTESY OF: CINDY STENEK



Go Fish!

Visitors to Kualoa Ranch can now find a sculpture of the rare longnose butterflyfish (*Forcipiger longirostris*), which is also known as the lauwiwilinukunuku‘oi‘oi and featured on the Aquarium’s logo! Artist Mike Mross created the new sculpture made of recycled metal materials to the Ranch in return for a monetary donation to the Waikiki Aquarium. The art piece can be found in Kualoa’s sculpture garden, just beyond the Ranch House.

PHOTO COURTESY OF: KUALOA RANCH



University of Hawai'i at Mānoa
Waikiki Aquarium
2777 Kalākaua Avenue
Honolulu, HI 96815-4027

KILO I'A Issue Number 180
2012/JAN//FEB///MAR

NON-PROFIT ORG.
U.S. POSTAGE
PAID
HONOLULU, HI
PERMIT NO. 278



THE WAIKIKI AQUARIUM'S MISSION

To inspire and promote understanding, appreciation
and conservation of Pacific marine life.

COMMERSON'S FROGFISH
Antennarius commerson