



Ka hanana lawelawe no nā 'opio E Mālama Hanauma Service Learning



In remembrance of our dear friend Peter Rappa (former Hanauma Bay Education Program

Leader), his wife Myrtle helped to organize an Earth Day stewardship event on April 20, 2013. Members of the American Business Women's Association (Na Kilohana 'O Wahine) and National Honor Society students combined their efforts to clear out invasive weeds such as Bidens weed, Chinese violet, nut grass, and koa haole from specific areas in the upper park (i.e., 'ākia bushes near the loading zone, planters along park walkway and commercial lot planters). Armed with bright pink gloves, weeders, trash bags, and a can-do attitude, they helped meticulously restore our adopted areas to their native form. The aunties were particularly determined to remove the koa haole roots. The event helped to restore our connection to our natural environment while promoting a sense of ownership to this amazing and precious place. To learn more about how you can participate in the Service-Learning/Stewardship program, please contact the Hanauma Bay Education Program.

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Hanauma by the Numbers

July 2012 - June 2013

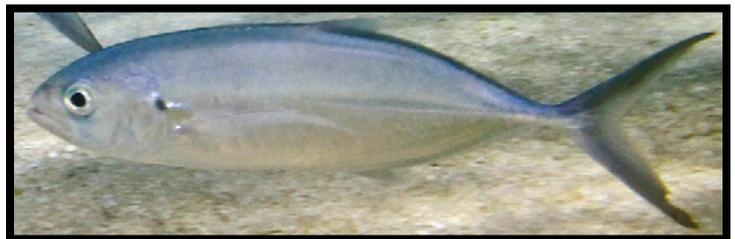
- 779,580 people visited Hanauma Bay
- 66,854 residents visited Hanauma Bay equating to 8.6% of the total visitor count
- 281 groups educated, serving 7,713 individuals
- 47 Thursday evening programs reached 1,772 attendees
- Hanauma Bay Education Program (HBEP) volunteers contributed 11,989 hours of outstanding service
- 33 new volunteers added to education program

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Beneath the Surface

A Swim for the Border



On a recent snorkel to the outer reef an uncommon trevally was sighted. At first glance, it appeared to have the body of a bigeye scad (akule) and the face of a chub (nenu). On further investigation it turned out to be a green jack (*Caranx callabus*).

Green jacks are an abundant species of coastal marine fish distributed from California to Peru. It is characterized by a number of features including gill raker, lateral line scale counts, and the presence of an adipose eyelid. They reach lengths of 55 cm and are carnivorous, feeding on a variety of fish, crustaceans, cephalopods, and zooplankton. For unexplained reasons, they have been travelling to Hawai'i more frequently, being seen in our waters more regularly. They are highly important to fisheries throughout their range.

Congratulations Jean Carr & Larry Winnik!

Jean Carr and Larry Winnik, two of the many dedicated volunteers with the UH Sea Grant Hanauma Bay Education Program (HBEP) were recognized on Wednesday June 5th, by the Honolulu City Council for 20 years of volunteer service. Councilmember Stanley Chang (Honolulu City Council, District 4) presented certificates to Jean and Larry on the occasion of their 20 year anniversaries honoring them at a special ceremony prior to the City Council Meeting.

Born in Oregon, Jean relocated to Honolulu in 1962, and has volunteered with HBEP since 1990. She enjoys meeting and assisting people from all over the world who come to Hanauma Bay. Volunteerism enables her to expand her routine and gain new opportunities. She welcomes visitor questions and especially enjoys those from the children; their sense of wonder and enthusiasm provides many rewards for her volunteer work.

Originally from California, Larry served 25 years in the U.S. Air Force, retiring as a colonel in 1991. He has volunteered with HBEP since 1992, is an avid snorkeler, underwater photographer, fisherman, avid reader, and rides motorcycles. When asked what he enjoys most about volunteering, he says that he enjoys interacting with visitors at the beach desk, the theater, and sharing his love of the Bay. He especially appreciates the smiles on many "Make A Wish" children who visit. Through his many years as a volunteer, Larry enjoys seeing tourists delight in the Bay, and he feels very lucky to live in Hawai'i.



Ka hanana hui manawale'a

Volunteer Program

Annual Appreciation Dinner

Ka i'a mana nui – the fish of many divided parts

Octopus, or he'e in Hawaiian, is one of the most intelligent invertebrates. Like the octopus' many arms, our many docents work together for the same body – the Hanauma Bay Education Program (HBEP).

Mahalo to everyone who were able to attend our annual party on April 20th at Hee Hing Restaurant. It was an evening full of friends and good food! We met the City & County Parks Director, Toni Robinson, as well as the Friends of Hanauma Bay President, Richard Baker – both of whom were newly designated in their positions earlier this year. Councilmember Stanley Chang who represents District 4 (Waikiki-Hawai'i Kai) assisted with acknowledging a handful of volunteers who have reached benchmarks of 5 and 10 years of active volunteer service with HBEP. We were treated to delicious cakes, made and decorated by Kelly Yoshida (HBEP staff), an award winning culinary artist, graphic designer, and currently a pre-med student at UH Mānoa. Kelly also designed the colorful he'e pin that was presented to volunteers as a token of appreciation for the hard work that goes into educating visitors to Hanauma Bay.

This event is especially enjoyable because it's an opportunity to catch up with fellow volunteers, meet new team members, and visit with our UH Sea Grant 'ohana and other special guests that are always impressed with our volunteers efforts. We are fortunate to receive donations thanks to generous local businesses and organizations. We had a variety of wonderful door prizes that were presented to each volunteer attending the event. We hope it was a special evening for everyone and look forward to next year's celebration!

Please help us recognize Friday volunteer, Shirley Roper on receiving a Bronze Medal President's Volunteer Service Award – who should have been included in the printed program with the 52 other volunteers who received bronze or silver medals. Congratulations!





Top: Hanauma Bay volunteers and staff. Middle: Mike Cordeiro, Dawna Ertel, Jeanne Cordeiro, Adam Ertel; (clockwise) Bea Koyasu, Alan Hong, Jean Carr, Nancy Inouye, Lois Ikegami. Bottom: Gary Nakanishi, Linda Nakanishi, Adele Barnes, Jon Ogata, Joanne Ogata, Leslie Dorman, Dave Dorman.

Ho'omaikai'i 'ana e nā haumana!
Congratulations Graduates!

Every year we have volunteers that come and go; moving on to new places, careers, and adventures. This year we have an abundance of graduates in our HBEP team that we wanted to recognize for their hard work in acquiring their degrees while also making time to volunteer and work at Hanauma. We've appreciated having each one as a part of our extended 'ohana, have enjoyed watching them grow as well-rounded individuals, and wish them the best on the next journey in their lives. All of us at Hanauma are very proud of your accomplishments and hope you come back to visit us in the future!



Taylor Scofield

Taylor Scofield (HBEP Student Staff) received a Bachelor of Science in marine biology from the University of Hawai'i Mānoa in May and is hoping to attend Texas A&M University in the fall to research the life history of snapper.



Lauren Fujimoto

Lauren Fujimoto graduated from St. Andrew's Priory School and will be attending the University of Hawai'i at Mānoa in the fall. Her major field of study is undecided at the moment, but she plans to continue to volunteer at Hanauma Bay.



Rebecca Harper

Rebecca Harper graduated from Maryknoll School and will be attending California State University, Northridge. She is interested in studying early childhood education, business, or sports therapy. Rebecca will also be playing on the varsity women's soccer team.



Nicole Haylor

Nicole and Tiffany Haylor graduated from a Christian co-op home school in May. Over the summer they will be camping with their family in their RV along the mainland west coast. In the fall they will attend Windward Community College, where they will work towards associate degrees; later transferring to the University of Hawai'i Mānoa to complete their bachelor's degrees.



Tiffany Haylor

Emily Luke graduated from Kamehameha Schools Kapālama campus and is headed to Oregon State University to study environmental engineering. She will also be a member of the OSU Cheer Squad – Go Beavers!



Emily Luke



Ryan Quakenbush

Ryan Quakenbush graduated from Punahou School with honors, and will be attending Santa Clara University (College of Arts and Sciences). He is interested in studying communications.

Hanauma: Not Just For Snorkeling; Building an Urchin Army



On Tuesday, April 30th, a group of HBEP volunteers and staff visited the Ānuenuē Fisheries Research Center on Sand Island, anxious to learn about the urchin hatchery. Manager David Cohen and UH Mānoa graduate student, Jenny Fung, led our group into the “greenhouse” that houses various tanks used for phytoplankton and urchin larvae propagation. The hatchery is raising *Tripneustes gratilla* or hāwa‘e maoli, a species of collector urchin that live in tide pools and on reefs to depths of 40-50 feet. This native species is known to collect bits of algae, shell, or other material on its test, possibly for camouflage.

The real significance of this animal is its appetite for an aggressive invasive algae that is currently smothering native corals, contributing to the decline of coral reef habitat in places like Kāne‘ohe Bay, Waikīkī, and Maunalua Bay. David and Jenny are part of a team that have been researching hāwa‘e maoli and culturing them to help combat invasive seaweeds like *Kappaphycus spp.* and *Gracilaria sallicornia*, aiding in reef restoration. Similar to the “Super Sucker” effort that used a water-based vacuum to systematically remove invasive algae from Kāne‘ohe Bay, the premise behind raising the hāwa‘e maoli collector urchin is the same, but at a somewhat smaller cost. The difficulty comes in having a large enough success rate in propagation to make an “army” of hāwa‘e maoli out defending our coral reefs. Over the last couple years, Cohen and his colleagues have been carefully cultivating the collector urchin and releasing them into the wild and have seen good progress. We hope to visit again in the future and see the strides they make in this war on invasive algae.

Ka Nūpepa Puka Lā, Ka Na`i Aupuni (Maraki 17, 1906, A3)

Ho`olaupa`i Newspaper Resource Project

Announcement of Prohibition!

Notice is being served to all those who go to swim or fish at Hamohamo, in Waikīkī Kai, Honolulu, O‘ahu, that Queen Lili‘uokalani is imposing a restriction. None shall gather Pakeleawa‘a and Huluhuluwaena seaweed (*Grateloupia filicina*), ‘Opihi (*Cellana exarata* and others), Ālealea shellfish (*Turbo sandwicensis*), rock-boring urchin (*Echinometra spp.*), Hā‘ue‘ue urchin (may refer to *Heterocentrotus mammillatus* or *Colobocentrotus atratus*), or pipipi snails (*Nerita picea*), directly in front of the royal residence. It was her own chiefly hands that planted and propagated these things shown above and caused them to thrive, and whoever shall gather these restricted things will be arrested, and punished by law. As for these things that were planted by the Queen, some were brought from Hilo, some from Lahaina, others from Moloka‘i and Kaua‘i and some from Waialua here on O‘ahu. Heed this restriction.
J. O. Carter, Agent. Honolulu, T.H., Mar. 1, 1906.



Historically, Hawaii’s marine resources were managed by the Ali‘i (Royal Chiefs). Some of the history has been preserved and is chronicled in Hawaiian language newspapers. Between 1834 and the late 1940’s more than 100 newspaper publications in the Native Hawaiian language were published for a highly literate public.

The 1906 notice entitled “Ho‘olaha, Ho‘okapu!” is an example of how Hawaiian language newspapers were used to communicate the kapu or fishing rules and restrictions in the early 1900’s. This particular kapu that applied to Hamohamo, Waikīkī is notable because it was set into place by Queen Lili‘uokalani herself.

Of particular interest to UH Sea Grant were articles relating to marine ecosystem management in Hawai‘i. Working with Dr. Puakea Nogelmeier of the UHM Hawai‘i inuiākea School of Hawaiian Knowledge, and the non-profit Awaiaulu, the Ho‘olaupa‘i Hawaiian Newspaper project increased accessibility to fisheries-related articles from the 1900’s and helped train the next generation of translators. Articles range from proclamations by the Hawaiian royalty and landowners on reef access restrictions to master fishermen sharing their mana‘o about types of fishing nets. For more articles visit: <http://seagrant.soest.hawaii.edu/hawaiian-language-newspaper-translation-project>

Ka hanana hana kaiaulu
Community Outreach Event
Hawaiian Islands Dolphin SMART Program

Photo Credit: John Johnson



On Thursday evening, March 14th, Laura McCue, contractor for NOAA's Pacific Island Regional Office Protected Resources Division, discussed the work of the Hawaiian Islands Dolphin SMART Program. Dolphin SMART is a partnership program developed by NOAA's Office of National Marine Sanctuaries and National Marine Fisheries Service, the Whale and Dolphin Conservation, and the Dolphin Ecology Project. The program's mission is to promote responsible stewardship of wild dolphins in coastal waterways. The Dolphin SMART Program's specific purpose is to; minimize the potential of wild dolphin harassment caused by commercial viewing activities, reduce expectations of close interaction with wild dolphins in a manner that may cause harassment, eliminate advertising that creates expectations of engaging in activities that may cause harassment, and to promote stewardship of local coastal waterways. Dolphin SMART is a unique voluntary recognition and education program encouraging responsible viewing of wild dolphins. Program participation targets commercial businesses conducting and booking wild dolphin tours, or any commercial vessel that may opportunistically view wild dolphins. The Dolphin SMART Program offers participation incentives for businesses that follow the program criteria and educate their customers about the importance of minimizing wild dolphin harassment. It also includes an important research component that provides insight about the daily lives of the local, wild dolphin populations. The program was first introduced in Hawai'i in September of 2011. If you plan on partaking in the viewing of Hawai'i's spinner dolphins through a commercial tour, please consider using an operator that adheres to the Dolphin SMART Program. For more information visit <http://sanctuaries.noaa.gov/dolphinSMART/welcome.html>

Ha'ilono 'o Hanauma is a publication of the Hanauma Bay Education Program (HBEP) based at Hanauma Bay Nature Preserve in Honolulu, Hawai'i. HBEP is a non-profit organization whose mission is to enhance appreciation and promoted understanding and stewardship of Hawai'i's marine environment through public education. HBEP is administered by the University of Hawai'i Sea Grant College Program and is supported by the City and County of Honolulu Department of Parks and Recreation, University of Hawai'i Sea Grant Publication # UNHI-SEAGRANT-NP-13-04



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Ka 'alemanaka hanana
Outreach Events Calendar

Lecture Series: Thursdays at 6:30 p.m.

October - Hawaii's Interesting Aquatic Habitats

- 3** - Anchialine Ponds by Lorena Wada, Assistant Field Supervisor, Pre-listing and Listing Program, U.S. Fish and Wildlife Service
- 10** - Revitalizing Loko I'a (Fishponds) Throughout Hawai'i by Brenda Ascuncion, Loko I'a Coordinator, Kua'aina Ulu 'Auamo
- 17** - Ecology of Hawai'i Sea Grass Beds by Dr. Catherine Unaba, Assistant Professor of Biology, Hawai'i Pacific University
- 24** - Coral Reef Landscapes by Dr. Andre Seale, Affiliate Research Faculty, Hawai'i Institute of Marine Biology
- 31** - When Highways and Wildlife Collide: Wedge Tailed Shearwater Mortality along Southeastern O'ahu by Dr. David Hyrenbach, Assistant Professor of Oceanography, Hawai'i Pacific University

For information on our Outreach Program

hbaynews@hawaii.edu

www.facebook.com/HanaumaBayOutreach

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hbep.seagrant.soest.hawaii.edu/community-events-calendar

All events will be held in the Hanauma Bay Education Center unless otherwise noted.

Ka Pololia

Box Jellies

Box jellies are usually seen 8-10 days after the full moon.

Potential dates for box jellies at Hanauma Bay:
September 27 - 29
October 26 - 28
November 25 - 27

Anita Benson