

KAIWI'ULA

WINTER 2010

VOLUME 2, ISSUE 1

"Grasses, flowers and trees...OH MY!"



CLYDE IMADA WITH DRIED PLANT SPECIMENS

By: Karen Awong

Clyde Imada, Research Specialist—Botany, appears to be quiet and unassuming but his sense of humor peaks when he tells his wife Pumehana (who works in the Vertebrate Zoology Division) that I am here to interview him for the National Geographic.

His enthusiasm shows as he introduces me to dried mounted plants, explaining about the types of

makaloa, a sedge that grows on the islands. He shows me the sedge called *kobekobe*, deep red at the base, used to create designs on the famous Ni'i-hau mats. I see plants preserved in jars, photos of plants as they looked before drying and a wonderful wooden box, called Box Lamott, that was made specifically to hold mounted ferns.

Clyde smiled when he told me that he did not especially like to garden. He liked to hike and identify plants. I thought this was odd but he soon explained the difference between a horticulturist and a botanist.

Clyde first got his degrees in cartography at the University of Hawai'i. Then he went back and got a

second degree in horticultural technology. He has been at the *Herbarium Pacificum* for 25 years.

The Department of Natural Sciences was recently given funding for a project that will bring the Museum from the inside to the outside, so to speak. Through the Education through Cultural and Historic Organization (ECHO), Allen Allison (Vice President, Sciences) has conceived a program in which the majority of plants on the grounds will eventually be replaced with native and canoe plants.

Clyde and Napua Harbottle (Collections Manager, Botany)

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SPECIAL POINTS OF INTEREST:

- ◆ Meet your neighbors - Find out about other volunteers
- ◆ Latest news on campus
- ◆ "Volunteer Spotlight"
- ◆ New Exhibits
- ◆ Upcoming trainings
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- ◆ And more!



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Volunteer Spotlight - "Clarence Fraser, Anthropology Department"

By:
Rowan
Gard

Tuesdays
and
Thurs-
days
are

good days in the Anthropology Department, as those are the days you can find Clarence Fraser smiling over his work on the second floor Archaeology Lab of Konia. Clarence good-naturedly assists Dr. Jenni-



CLARENCE IDENTIFYING SHELL SAMPLES

fer Kahn, Research Archaeologist, with artifact assemblage analysis recovered from ancient Hawaiian houses on the Big Island, as well as Kaua'i. One of the most exciting assemblages analyzed to date, came from the original Nā Pali Coast site of the Hale Pili – restored and currently displayed in Hawaiian Hall – and recently excavated by Dr. Kahn.

Clarence's efforts within the Archaeology Lab have

yielded *kukui* nut and coconut fragment samples for precise radiocarbon dating of the Hale Pili site and others. Radiocarbon dating is vital in understanding the precise timing of when Hawaiians built ancient house sites and lived in them. Recently Clarence has become immersed in a new project involving identifying sea shell samples to species (pictured above). The shells have been excavated

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SCHEDULE OF EVENTS

2/5/10 & 2/19/10 - *Sky Tonight—Planetarium—On the first and third Fridays of each month from 8:00 p.m.*

2/13/10 *Circus! Science Under the Big Top - exhibit open to the public*

2/13/10 *May Kawena Puku'i Festival*

2/13/10 - *"Free Garden Tour," come to Kona on Hawai'i Island and see Amy Greenwell Garden's collection of native Hawaiian plants while hearing about their traditional cultural uses. This is a free event. Call if you have any questions, 323-3318.*

agg@bishopmuseum.org

2/16/10 - *Astronomy Lecture - Astronomy Lecture: Observing Planets Crash into Stars: Bright Luminosity from Planet Destruction*

Stuart Taylor, Ph.D.

2/22/10 - *Cyril Pahinui Slack Key class—call Shara Mahoe for more information: 848-8106*

2/27/10 - *Grow Hawai'i Festival - Amy Greenwell Garden*

FEBRUARY 2010

SUN	MON	TUE	WED	THU	FRI	SAT
	1	2	3	4	5	6
					Sky Tonight	Traditions of Pacific
7	8	9	10	11	12 Circus! Member opening	13 Circus! Mary Kawena Puku'i festival Free Garden Tour
14	15	16 Astronomy Lecture	17	18	19 Sky Tonight	20
21	22 Cyril Pahinui	23	24	25	26	27 6th Annual Grow Hawai'i festival
28						

Science Adventure Center Docent Training



VOLCANO IN THE SCIENCE ADVENTURE CENTER

Bishop Museum's Mamiya Science Adventure Center is undoubtedly unique. From its three-story erupting volcano to its huge deep water tank, the Mamiya Science Adventure Center is the only science center in the nation that focuses exclusively on the science of its

home region. Now, people who want to share the excitement of our science with others can do so by volunteering their time at the Science Adventure Center.

Beginning February 2, 2010, Bishop Museum will be offering Science Adventure Center Volunteer Training from 9:00 a.m. to 12 noon. These sessions will occur every Tuesday through March 30, 2010.

The training will enrich knowledge in the topics of volcanoes, geology, deep sea exploration, natural history and ecology of Hawai'i, ethnobotany, and cli-

mate change. Volunteers will learn about the Science Adventure Center's hands-on, inter-



LAVA DEMONSTRATION

active exhibits and programs to explore, *specifically*, the science of Hawai'i.

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Upcoming exhibit

CIRCUS!

February 13 - May 2, 2010

Ladies and gentlemen, and children of all ages! Step right up and test your balance on the highwire, perform amazing feats of strength, and discover the hidden secrets of amazing contortionists and—gulp!—sword swallows. We invite you to experience all of the thrills of a circus performer when *Circus! Science Under the*

Big Top comes to Bishop Museum on February 13, 2010. How might it feel to



soar high above the audience? Which muscles work

to bend your body into the shape of a pretzel like a contortionist? Can you create music to match the movements of circus performers? What are circus animals really thinking? How much force does it take to bend a steel bar? Twenty activity stations will help you explore the science behind the spectacle in this delightful interactive adventure.

Mahalo to our sponsors: C.N. Wodehouse Bishop Museum Trust (Bank of Hawaii, Trustee)



“THE ENVIRONMENT FOR THE KANAKA MAOLI IS JUST AS MUCH AN ARTIFACT AS WHAT IS CONTAINED IN THE MUSEUM.”

Karen Awong

Continued from page 1- Grasses, flowers and trees...OH MY!

are in the process of working on themes that would incorporate plants and Hawaiian cultural and natural history.

Among the host of plants that



BOX LAMOTT, MOUNTED FERNS.

might be included, *mamake* was used medicinally and for bark cloth, and is the host plant for our native Kamehameha butterfly; *makaloa*, used to weave fine mats; a restored *kalo lo'i*; or even a grove of *wauke* that could be tended for *kapa*-beating classes at the Museum. The plan at this time is

to start on Phase 1, which will commence near Hale 'Ikehu. One of the ECHO requirements is that the venter chosen to do the job must be willing to participate in an internship in which high school and college-aged students will be able to participate in planning all stages of the landscaping. This is to be a community participation project.

This first stage of the program will have to prove viable to continue to receiving funding from ECHO. It is hoped that groundbreaking will begin sometime in late January or early February 2010.

Clyde expressed a hope that the community might embrace the opportunity to actively participate in bringing this project to fruition. Volunteers will be needed to help to clear the

project area, plant, weed, and create signage and a self-guided garden tour brochure. Once the landscaping is installed, there will also be a need for people who might want to adopt an area and help to maintain it.

The environment for the *kanaka maoli* is just as much an artifact as what is contained in the museum. An immense part of their lives was dependent on what they grew or harvested from the native landscape: Food containers, clothing, household objects, fishing and hunting equipment, weapons, medicine and of course food. In the Museum all that is shown can be connected to all that is grown.

Amy Greenwell Garden - Our 'ohana on the Big Island



MĀLA KALO—AMY GREENWELL GARDEN

6TH ANNUAL GROW HAWAIIAN FESTIVAL

SATURDAY, FEBRUARY 27, 2010:

9:00 A.M. – 2:30 P.M.

**AMY B.H. GREENWELL ETHNOBOTANICAL GARDEN
CAPTAIN COOK, HI**

FREE ADMISSION

The 6th Annual Grow Hawaiian Festival at Amy Greenwell Garden features cultural demonstrations, ask-the-expert booths, displays, keiki activities, a lei contest, and much more! Presented by the Hawaii Forest & Trail; Kūki'o; the Native Hawaiian Culture and Arts Program, and Education through Cultural & Historical Organizations (ECHO); and initiative under the Office of Innovation and Improvement of the U.S. Department of Education; Hawaii Tourism Authority, in partnership with the County of Hawaii, through the County Product Enrichment Program (CPEP), Ka Ahahui o ka Nāhelehele; and Office of Hawaiian Affairs.

If you are interested in volunteering (we need lots of help), please contact Peter Van Dyke (pvandyke@bishopmuseum.org or 808-323-3318). Volunteer perks include an invitation to a lū'au, a free lunch, and a field trip opportunity. Please note that this is on Hawai'i Island.

“NOW, PEOPLE WHO WANT TO SHARE THE EXCITEMENT OF OUR SCIENCE WITH OTHERS CAN DO SO BY VOLUNTEERING THEIR TIME AT THE SCIENCE ADVENTURE CENTER. “

Continued from page 2—Science Adventure Center Docent Training

What: Volunteer Training for the - Science Adventure Center

When: Every Tuesday; February 2 - March 30, 9:00 a.m. to 12 noon



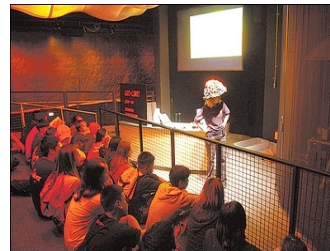
KIDS WATCHING THE ROV'S UNDERWATER

Where: Bishop Museum

Once trained, volunteers will interact with school children and the general public using interpretive carts on topics that range from volcanoes to the biology of the Hawaiian Islands; and present interpretive pro-

grams in both the Science Adventure Center and at Science on a Sphere, a six-foot globe that displays breathtaking images of the earth and other planets.

Individuals who complete volunteer training and log 180 hours will be eligible for a complimentary one-year Bishop



LAVA SHOW

Museum Family & Friends membership (\$85 value). All volunteers enjoy a



LAVA DOME—SAC

subscription to the Museum's Ka 'Elele Online Newsletter, Museum guest passes, and an invite to Bishop

Museum's annual Volunteer Appreciation Luncheon.

To reserve your spot in these training sessions, please contact Bishop Museum's Education Volunteer Coordinator, Kawehi Brandow, at 847-8239 or by email at

kawehi@bishopmuseum.org

Continued from page 1- Clarence Fraser, Anthropology Department

from ancient Hawaiian houses and these discarded shell remains were a food source eaten by the house's inhabitants long ago. Clarence's rigorous examination of the shells sheds light on what types of food Hawaiians ate on a daily basis, and how this might have changed through time due to environmental shifts, population pressure, or overharvesting.

CLARENCE'S IMPRESSIVE lab skills are no accident. Before retiring and volunteering with the Anthropology Department, Clarence spent 21 years as an Evidence Specialist and Criminalist with the Honolulu Police Department's Crime Lab. Through his work with the Crime Lab, Clarence is literally responsible for bringing thousands of Hawai'i's violent criminals to justice. Clarence's

career choice is one which he still feels passionate about and continues to provide expert testimony on his many previously worked cases as they come to court.



CLARENCE FRASIER WITH SHELLS

When asked why he volunteers at Bishop, Clarence explained "I've always had an inquiring mind and being part of a team that does research, it means a lot to me... I enjoy research, it really turns me on!" Clarence's inquiring mind led him to complete undergraduate and gradu-

ate work in microbiology, as well as groundbreaking DNA research at Queen's Medical Center in Honolulu.

Another reason Clarence sought out volunteering at Bishop involves happy memories from when his two adult daughters were young children, and he and his wife enjoyed visiting the Museum, making regular use of a family membership.

Clarence's word of advice to others considering volunteering – "Find something you're passionate about and then find somewhere you can help the most."

THE ANTHROPOLOGY DEPARTMENT WOULD LIKE TO THANK CLARENCE FOR ALL OF HIS CONTINUED HARD WORK AT THE MUSEUM AND WITHIN THE GREATER COMMUNITY – "MAHALO NUI LOA CLARENCE, WE'RE LUCKY TO HAVE YOU AS PART OF THE MUSEUM 'OHANA!"

"I ENJOY RESEARCH, IT REALLY TURNS ME ON!"

Clarence Fraser

ASTC Conference 2010 - Ho'okele - To navigate



This year's annual 2010 Association of Science-Technology Centers (ASTC) conference will be hosted, for the first time ever, by the Bishop Museum. ASTC is a global organization of

science centers and museums whose primary goal is to reach an increasingly diverse public through a positive and engaging experience of science. ASTC encourages learning by innovation, and has established a community for science centers and museums to advance to their goals through a sharing of concepts and solutions.

This year's ASTC conference will be held October 1st through the 5th, 2010, and will take place primarily at the Honolulu Convention Center, with several events held on campus at Bishop Museum. The theme for our Hawai'i conference is *Ho'okele*, which in Hawaiian means to navigate. The concept

of Ho'okele is represented in our Bishop Museum - ASTC logo, "Science centers as wayfinders to new horizons."

With time ticking away very quickly, Bishop Museum is looking for as much support from our volunteers as possible! We are currently recruiting for all positions and days, between the hours of 9-5pm, and 5pm-9pm during our evening event at Bishop Museum.

All volunteers get a free, exclusive ASTC t-shirt, and free admission to any session outside of their scheduled duties. For more information please contact Kawehi Brandow: kawehi@bishopmuseum.org.

BISHOP MUSEUM

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Kaiwi'ula is the original name for the area where Bishop Museum is located. The main goal for Kaiwi'ula is to build a strong community among volunteers and staff, as well as help communicate the latest information on campus. Kaiwi'ula is a collaborative work with representation from various departments, and contributing articles from our own volunteers and staff.

MAHALO NUI LOA to everyone who submitted information for this month. Anyone interested in becoming a part of our Newsletter team, or if you have anything you'd like to add to the next issue, please contact Kawehi Brandow:

Kawehi@bishopmuseum.org

Volunteer information

List of Volunteer Opportunities

- Feb. 2nd to March 30th Science Adventure Center Volunteer Training
- February 13 – May 2, 2010 – Circus! Science Under The Big Top Exhibit
- February 13, 2010 – **Mary Kawena Pukui Performing Arts Festival**
- March 26, 2010 – Family Sundays – 8:30 – 5pm (**Visitor Services/Education**).
- Building & Grounds Department
- Archaeology Department
- Atherton Gate **Weekend** Greeters (Education)
- Malacology Department
- Hawaiian Hall Docents Cohort #4 Training (Cultural Education) - *info coming soon!*
- Education: Furlough Fridays Assistant from 01/08/10 - 5/14/10
- Education: Atherton Hālau Greeter

Please contact Perla Buenafe for more information:

perla@bishopmuseum.org

Ph: (808)-848-4180

HAU'OLI MAKAHIKI HOU
FROM BISHOP MUSEUM!



How do I get a honu on my license plate?



As you toot around town, you can show everyone that you are a volunteer and proud member of the Museum's growing 'ohana. Get your Bishop Museum license plate emblem today! For every one of these honu emblems sold (\$30.50 set-up fee and \$25 renewal fee for every year thereafter), \$20 will be donated to Bishop Museum annually. Wow, that can really add up!

How do I get my Bishop Museum license plate?
It's easy! Stop by the City & County Division of Motor Vehicles and Licensing or any Satellite City Hall to request your Bishop Museum plate. Have your \$30.50 payment, current registration, and application ready. Applications are available online at

www.honolulu.gov/csd/vehicle/mvdecal.htm

He hale kou. Your home, your Museum.