



From the Director's Desk

Arboretum plays major role in World Conservation Congress

Aloha mai
kākou!

This past month of September 2016, Hawai'i hosted the International Union for the Conservation of Nature's (IUCN) World Conservation Congress (WCC) which was an exciting, exhausting and highly significant event in which Lyon Arboretum played a major role. This was the first time in the 68 year history of the WCC that it was held in the US. The theme was "Planet at the Crossroads," highlighting the loss of plant and animal species, ecosystem impairment, impacts on societies worldwide and the urgent need for action.

More than 10,000 conservation scientists from 193 countries participated in the WCC, which was held at the Hawai'i Convention Center from September 1st to 10th, along with workshops, excursions and other activities held all over the state. My overriding impression is that the Congress was very successful and Hawai'i presented itself well on this international stage. Here I'll be describing Lyon Arboretum's participation in this important event, but if you would like to learn more about the 2016 WCC,



see: <http://iucnworldconservationcongress.org>

Lyon Arboretum is one of 1300+ international members of the IUCN and

was an official representative of the University of Hawai'i at the WCC. The Congress has a bewildering array of activities and offerings, but the main components are the following:

1. The Exhibition is the component of WCC which is open to the public and consists of Exhibition booths, as well as larger Pavilion displays. This was held in the Exhibition Hall on the 1st floor of the Hawaii Convention Center. This was where conservation initiatives and innovations were showcased by IUCN

Members, Partners, businesses and governments. The Exhibition provided an opportunity for the public to mix with registered WCC participants and experience the excitement of this international Congress.

2. The Forum involves classes, public debate and discussions, which took place from Sept 2nd to 5th. The various components included Workshops, Knowledge Café (2 hour, small group discussions), Posters, Conservation Campus (focused half to one day classes on conservation topics), Pavilions (mentioned above), and Social Events. There was an overwhelming set of opportunities, most of which were open only to those who had registered for the WCC. However, in addition to the delegates registered for the whole Con-

continued on page 2



IUCN Members Assembly at the World Conservation Congress.

gress, one to two day Kama'aina passes allowed local residents to participate at reduced rates.

3. Members Assembly, which ran from September 6th to 10th, was a meeting of IUCN Members to make policy decisions, vote on resolutions, and hold IUCN elections. I had the honor of attending this as the Lyon Arboretum representative. During the members assembly there was simultaneous translation of all discussions into English, Spanish and French and voting used an electronic system with accredited delegates logging in using issued voting cards. Over 100 policy and governance motions were debated and voted on, as well as elections for Regional Councilors, Chairs and IUCN Officers.

Lyon Arboretum's participation in the WCC was extensive. We hosted numerous visitors, including the Board of the American Public Gardens Association, a Cornell University group, a "Young Professionals" group with IUCN, visiting scientists from the Smithsonian Institution and even a princess from Jordan. With help of numerous Friends of Lyon Arboretum (FLA) members, as well as

Lyon and state staff, we held a very successful Exhibit in the Exhibition Hall from September 1st to 10th. The Exhibit was developed with the Laukahi Network and the Hawai'i Plant Extinction Prevention program and featured the partnerships that allow our programs to prevent the extinction of Hawai'i's most precious native plants. Great thanks to Ann Kadowaki, Sono Hirose-Hulbert, and Elizabeth Riegels from FLA for their hard work and artistic expertise in putting the display together. We received much attention and interest in our exhibit and made good contacts. For example, I had long talks with Dr. Colin Clubbe, the head of Conservation Science at Kew Gardens and Dr. Maite Delmas, International Affairs Officer for the French Museum for Natural History. Many of our Lyon staff participated and made their own contacts.

Also, a very successful Conservation Campus was held at Lyon Arboretum on September 4th. This full day training titled "Plant Extinction Prevention Program Model: Partnering for Effective Conservation on Oceanic Islands", was organized by Joan Yoshioka of the Plant Extinction Prevention Program and Nellie Sugii of Lyon Arboretum. Through hands-on practice, partici-

pants learned in situ (in-place) and ex situ (off-site) conservation techniques.

A spectrum of perspectives from widely differing conservation landscapes on oceanic islands, such as Hawaii, Guam, Puerto Rico, Cuba, and others, provided participants with examples from which to draw and apply to their unique situations. The 20 participants included international visitors from Japan, Guam, UK, China, Puerto Rico, and the Mauritius, along with US participants from the National Tropical Botanical Garden (Kauai), the Center for Plant Conservation (San Diego), Morton Arboretum (Illinois), Santa Cruz (CA) and Florida. A bilingual instructional handbook (English, Spanish) covering in situ and ex situ topics was developed as a training manual. This handbook will be further developed from the experiences and conservation perspectives gleaned from the participants through the interactive sessions, question-answer periods, and discussions. This reference handbook will be published and made available for distribution. In addition, a network of rare plant conservation programs on oceanic islands will be initiated to facilitate communication between programs to exchange ideas and solicit advice or suggestions. This network could provide leverage for program funding on a larger scale than would be possible by a single program. It is hoped this network will spring-board the development of an IUCN SSC Oceanic Island Plant Conservation Specialist Group.

Finally, we breathe a sigh of relief that this intense, time consuming and thrilling experience is now past. Hawaii has much to be proud of in our hosting of the World Conservation Congress!

Aloha no,



Carl I. Evensen



The Lyon Arboretum, PEPP & Laukahi Network Exhibit at the World Conservation Congress.

From the grounds up

Aloha mai kākou,

Over the years, Lyon Arboretum has had many great gardeners and arborist who have come and gone, and it has been rather difficult to find any stability and gain traction with the overwhelming amount of work that needs to be done on the grounds in maintaining our trails and living collection. I am happy to announce that the Grounds & Collections department is now fully staffed with seven full-time employees making us the biggest (and most important ... joking) department at the arboretum. I wanted to take this time and introduce our new staff to the Lyon Ohana.

Assistant Ethnobotanic Gardener: Robert Santiago

If you don't know him by now, I would be very surprised. Robert Santiago has touched the hearts and minds of many of our visitors, school groups, volunteers and fellow staff members with his gracious smile and heartfelt aloha. Robert 'Lopaka' Santiago has worked at the arboretum for nearly three years and has proven himself a real asset to this place. Originally hired to mālama the Hawaiian Ethnobotany garden, Brother Rob, as I call him, can now be seen working in just about every section of the arboretum. Originally from Kahalu'u with roots in Molokai and the Big Island, Rob is not only passionate about aloha 'āina work, but he is also an avid surfer and dancer of hula!

Arborist I: Tristan Williams

In the long tradition of great Lyon arborists, Tristan Williams has been with us for nearly 2 years. Hailing from Wales, United Kingdom, Tristan has degrees in both English and Arboriculture. If you see a guy with flowing blonde hair and an English accent dangling from a tree, that's Tristan. Aside from being a tree surgeon, Tristan is really passionate about acting and enjoys sailing, surfing, playing guitar, piano and spending time with his lovely wife Zora.

Botanic Gardner I: Pia Ruisi-Besares

Pia joined the Grounds & Collections staff in January 2016. Her name suggests a Polynesian origin, but she is originally from upstate New York, with Italian and Puerto Rican heritage. Pia graduated with a B.A. in Environmental Science and Biology from Skidmore College. A rare combination of intelligence, strength and beauty, Pia comes to us with an amazing skill set with previous working experience with the Alaskan Forest Service, teaching kids riparian restoration biology in California and conducting vegetation and avian surveys in the Waianae Mountains. In her free time, Pia loves to paint, bake goodies, make music and enjoy the ocean and mountains of our beautiful islands!

Assistant Arborist: Nathan Kamaka

Another staff member hailing from Kahalu'u, Oahu, Nate has been working with us for the past six months as the assistant



Pictured from left to right in the first row: Tristan Williams, Pia Ruisi-Besares, Robert Santiago, Kelly Brennan; standing in the second row: Līloa Dunn, Nathan Kamaka, Isaiah Kalahiki

arborist. Bringing in a tremendous array of skill sets including small engine repair, heavy equipment operator, and gorilla gardening, Nate can do just about anything required here at the arboretum. Nicknamed Na-tive, he is a self-described hunter-gatherer who loves to hunt, fish, cook and bodysurf.

Botanic Gardner II: Kelly Brennan

Kelly Brennan is another transplant from the beautiful town of Santa Cruz, California. Kelly comes to us with a B.S in ornamental horticulture and an M.S in agriculture from CalPoly. He also brings over 15 years of commercial nursery production experience. Before coming to the arboretum, Kelly was an instructor in Agriculture and Plant Sciences at Windward Community college and a GoFarm Hawaii coach at Leeward Community College. Kelly is an avid traveler who enjoys fishing, body surfing and, if you can believe it, growing plants! He is easy to identify as he is the only guy on grounds without long hair!

Arborist II: Isaiah 'Hua' Kalahiki

We are again represented from the ahupua'a of Kahalu'u by our most recent hire, arborist Isaiah 'Hua' Kalahiki. It might be the similar climate of Mānoa to Kahalu'u that makes

continued on page 7

FLA kokua at IUNC World Conservation Congress

Aloha friends
and members,

Summer has been hectic for the Arboretum and the FLA. The Friends assisted with the design and construction of the booth for the IUCN Conference at the Convention Center held in early September. It featured the partnership of the Laukahi Network, Lyon Arboretum and the Plant Extinction Prevention Program. The three sided back panel in the booth held exciting action and informative laboratory shots showing the types of work done by these groups. Small shelves held collection tools, petri dishes, seed samples and fascinating plants.

Volunteer Margaret Mortz and I got to work a shift while the others participated in a presentation about Hawaiian plant conservation in one of the open pavilions. It was very gratifying to share with visitors to the booth of the important work being done to try to save our native plants. What I found even more wonderful was meeting "young" people, high school and college students as well as some just starting out post graduation. They were excited about helping to work in this field and trying



to make a difference. One Kamehameha student was currently volunteering at the Bishop Museum and inquired about helping in the Micropropagation Lab. If we can educate these students early, this mission to help preserve our special plants surely must succeed.

Please don't miss our upcoming plant sale scheduled for Saturday, November 19. A great assortment of plants will be available from various nurseries

and vendors. I always check out the selection from our own greenhouse. It is particularly intriguing, you never know what you might find as they put out some uncommon items. Pictured is a lovely plant I just purchased, found it right outside our Gift Shop! Make sure to come early if you want to secure one of the specials wreaths made by our Hui Hana ladies. And I am definitely buying a case of hot pepper jelly made by our Jams and Jellies Volunteers. The Friends group will be out seeking new members and giving away little pots of lava'e with sign up. Hope to see you there!

—Ann Kadowaki,
FLA President



FLA Member Donations

'Ohi'a Lehua
\$250 - \$500

Mary Cooke

'Ilima Level
up to \$250

Eve Anderson
Randi Creamer
IBM

Mary King
Jack Lockwood
Mary Philpotts McGrath
Peggy Murphy
Sheldon Naiga
Ethel Oda
Wendy Roberts

Joan Rohlfling
Daryl Sato
Carol Tomioka



FLA Board of Directors 2016-2017

Ann Kadowaki, President
Joel Kurokawa, Vice President
Alice Tucker, Secretary
Marie Imanaka, Treasurer
Paul Sibley, Past President
Clancy Ako, Advisory Board Member

Mary Ann Bell
Suzan Harada
Holly Marchant
Sheila Conant
Sono Hirose-Hulbert
Michael Moore
Chris Dacus
Susan Ing
Duane Okamoto
John Egan
Leslie Isaki
Elizabeth Riegels
Scott Ezer

FLA office phone: 988-0464 • Email: laassoc@gmail.com • friendsoflyon.org • Find us on Facebook!

Lyon Classes

To get our upcoming Winter class schedule, sign up for the Lyon email list.

No printed copy will be sent.

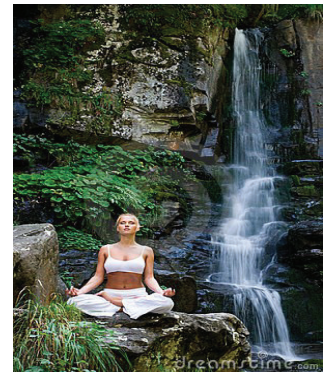
Go to manoa.hawaii.edu/lyonarboretum and click on Get Involved!

Mindful Hike in the Arboretum and Yoga

Instructor: Lizabeth Kashinsky

Science has documented that both being in nature and mindfulness practices such as yoga and meditation are good for your health. Experience these benefits yourself by joining us on a mindfulness based guided hike through Lyon Arboretum followed by yoga in a beautiful studio with stunning views of Manoa Valley.

Class meets on various Saturdays each month. (Please see schedule below.) Class size is limited, so sign up early. Sign up for one or multiple classes; each session will focus on a different theme and expression. Bring a yoga mat, water, and writing materials in case you should want to journal after class in a beautiful outdoor setting. Previous yoga experience not necessary.



Saturday, November 12, 2016

9:30am-12:00pm

\$25

Saturday, December 10, 2016

9:30am-12:00pm

\$25

‘Eke Lauhala Basket Weaving

Instructor: Kumu Wesley Sen



Join traditional lauhala weaver, kapa maker, and lomilomi practitioner Wes Sen for this three-day course in which you will learn to weave a beautiful and functional lauhala basket. Learn about the hala, *Pandanus* spp., in its many forms and functions; how to harvest and prepare the lau, or leaves, and how to plait them to form a Hawaiian ‘eke lauhala. These baskets can last many years, retaining their beauty and holding fond memories for years to come.

Wednesday, November 2, 9, 16, 2016
instructor

12:30pm –2:00pm

\$50, plus \$30 supply fee payable to

Home Seed Banking on a Budget

Instructor: Dr. Marian Chau



Are you interested in preserving seed stock for your vegetable garden, including heirlooms? Want to store native Hawaiian plant seeds? This class is geared toward homeowners and others who want to start banking seeds on a small scale using effective but low-cost/low-tech methods. After an informal presentation, Dr. Chau will lead some hands-on demonstrations of techniques and tools used in home seed banking. Lastly the class will visit the Hawaiian Rare Plant Program's Seed lab, which is managed by Marian, to see how the professionals use cutting edge methods to keep rare plants safe from extinction. Participants will each receive a packet of Native Hawaiian plant seeds.

Saturday, November 5, 2016

12:30-3:00pm

\$35

Festive Thanksgiving Table Centerpieces **Instructors: Bertie Lee and Jan Tucker**

Floral design artists Bertie and Jan will demonstrate how to create a festive Thanksgiving table centerpiece. Following their demonstration you will have the opportunity to create your own take home centerpiece. Containers and flowers will be provided. Please bring branch and flower clippers. *This class is sponsored by The Garden Club of Honolulu as part of the Stepping Stones Series.*



Wednesday, November 16, 2016

9:30-11:30am

\$20 + \$15 supply fee

Living Christmas Wreaths

Instructors: Susan Beers and Leslie Almeida



Susan and Leslie will demonstrate how to create a living wreath using Tillandsia and other natural materials. Following their talk and demonstration, students will be provided with a 13" vine wreath, several Tillandsia and the option of several embellishments with which to create their own holiday wreath. Please bring scissors. *This class is sponsored by The Garden Club of Honolulu as part of the Stepping Stones Series.*

Friday, December 9, 2016

9:30-11:30am

\$20 + \$25 supply fee

Holiday Swags-From Garden to Table

Instructor: Ann Kadowaki

Ann will demonstrate how to fashion various foliage, flowers and dried materials into centerpieces for your dining table. Use this technique for longer swags for holiday decorating. Following the demonstration you will create your own take home holiday centerpiece or swag. Feel free to bring plant material from your garden. Additional plant material will be provided. Please bring clippers. *This class is sponsored by The Garden Club of Honolulu as part of the Stepping Stones Series.*



Friday, December 16, 2016

9:30-11:30am

\$20 + \$20 supply fee

All classes require preregistration. Call 988-0456 to sign up!

From page 3

this place so attractive to our three guys from the Ko'olau-poko! Hua has hit the ground running, an experienced tree climber, he is always 'up' to climb trees. A soft spoken man of few words, he is literally an animal out there and we are so stoked to have him as part of our team. Besides swinging from trees armed with a chain-saw, Hua enjoys time with his family and bodysurfing!

I, personally, want to let everyone know that the grounds staff is dedicated to Lyon Arboretum's mission and vision, and most importantly to the plant collection and this 'āina. So, please introduce yourselves to us whenever you see us around pulling weeds, trimming trees or cutting grass, because we would love to get to know all of you guys also!

Mahalo – Līloa Dunn



Mahalo for your support!

Tuline Nonomura – Umbrellas & T-Shirts for visitors to use via gift shop, Bonnie Eyre – Strawberry Guava for Jams & Jellies, Wes Sen – Time & expertise in making tapa tools for Education Department, Linda Hamsaki & Carole Sakata of Sogetsu Hawaii – Donating time & expertise to teach Keiki Ikebana Class

Save the trees!

If you'd like to receive future newsletters in PDF format via email, please contact higashiz@hawaii.edu.



Sign up for the email newsletter by December 31 to be eligible for a \$10 gift certificate redeemable at the Arboretum gift shop.

Congratulations to Rachele Reed, our Summer 2016 drawing prize winner!

Good luck next time!



Wish List

- Lemons, mangoes, calamondin, jaboticaba for Jams & Jellies
- Golf style umbrellas for visitor use
- \$150-\$200 to subsidize a title 1 school group for field trip
- \$200 scholarship for students to attend 1 week nature camp
- \$2000 to fund 10 week university student internship scholarship
- \$1000 to upgrade rare plant greenhouse w/ ventilation fans

We appreciate your donation

Name: _____ Phone: () _____ — _____

Address: _____ City: _____ Zip: _____

Email: _____

Payment method: _____ check (payable to Lyon Arboretum/UHF, Attn account #12043404)

Or Credit Card: _____ (Visa) _____ (Master Card) _____ (American Express)

Account #: _____ Exp date: ____/____/____ Security code: _____

Signature: _____

Please send to: Lyon Arboretum / UHF, Appeal code: 09LY2, 3860 Mānoa Rd, Honolulu, HI 96822



University of Hawai'i-Mānoa
Harold L. Lyon Arboretum

3860 Mānoa Rd.
Honolulu, HI 96822
Phone: 808-988-0456
manoa.hawaii.edu/lyonarboretum

Non-profit Org.
U.S. POSTAGE
PAID
Honolulu, Hawaii
Permit No. 278

Return Service Requested

Send To:

Arboretum Hours:

Monday-Friday, 8am-4pm
Saturday, 9am-3pm Closed
on Sundays & Holidays

\$10 Docent led tours available
at 10am, Monday-Saturday.
Please call 988-0461
for reservations.

Arboretum Staff

Interim Director: Carl Evensen

Administration: Destin Shigano,
Derek Higashi

Education & Volunteer Programs:
Richard Sears, Rebecca Beralas

Plant Collections & Grounds:
Liloa Dunn, Tristan Williams,
Nathan Kamaka, Robert Santiago,
Pia Ruisi-Besares, Isaiah Kalahiki,
Kelly Brennan

Micropropagation Lab: Nellie
Sugii, Cindy Yamamoto,
Doug Okamoto, Peter Wiggins

Seed Lab: Marian Chau,
Tim Kroessig

Horticulture: Liz Huppman,
Gerrit Evensen

Botanist: Karen Shigematsu

Facilities / Maintenance:
Clancy Ako

Arboretum Plant Sale

At Lyon Arboretum
Saturday, November 19, 2016
9 a.m. to 2 p.m.
Free Admission

Colorful ti varieties, heliconias, gingers, anthuriums, Hawaiian plants,
Hawaiian ferns, cactus & succulents, tillandsias,
bromeliads, herbs & vegetable plants, jams, jellies, spring wreaths,
oshibana crafts, hand-painted pots & Hawaiian honey.

Free shuttle service to the Arboretum. Pick up points at Po'elua Street and
Nipo Street where they intersect with Manoa Road.

Please call 988-0456 for more information.