

# ANNUAL REPORT 2012





On the cover: *Brighamia insignis*, commonly known as 'ālula or 'ōlulu in Hawaiian, a critically endangered plant endemic to Kaua'i.  
This Page: Bamboo Grove, Allerton Garden, Kaua'i

## MESSAGE FROM CHIPPER WICHMAN AND MERRILL MAGOWAN

2012 was an important year for the National Tropical Botanical Garden in many ways. One of the most significant was the fact that it marked the first year of our new five-year strategic plan. This plan is our roadmap to achieving our vision and our potential as a leading botanic institution. The plan represents our dreams and aspirations for the future and the first year demonstrated great progress towards the challenging goals we set for ourselves.

Two significant key goals of the plan call for the creation of an international center for tropical botany at The Kampong (our garden in Florida) in collaboration with Florida International University and the renewal and improvement of our flagship garden – McBryde Garden. Both of these goals will extend the impact of our organization to a national and international audience as well as help to create a more sustainable organization financially. Significant contributions were received in 2012 towards both of these goals.

Another highlight of 2012 was the fall Board meeting held in the United Kingdom. In the 49-year history of our organization, this is the first time the Board has met outside of the United States. The meeting took us to the Eden Project in Cornwall and the Royal Botanic Garden Edinburgh in Scotland where they shared their expertise in innovation through marketing, visitor services and education. These experiences were eye-opening and gave us some great examples that can be used as we turn our institutional focus towards improving the McBryde Garden.

And finally, 2012 was significant as it marked the passing of Senator Daniel K. Inouye who was the author and champion of our Congressional Charter in 1964. We will miss our dear friend and treasure the memories of his passion and commitment towards making the dream of having a National Tropical Botanical Garden become a reality.

We invite you to read about the highlights of the past year and the accomplishments of each of NTBG's five unique and very different gardens.



**Chipper Wichman**  
Chief Executive Officer and Director

A handwritten signature in black ink that reads "Chipper Wichman". The signature is written in a cursive, flowing style.



**Merrill Magowan**  
Chairman of the Board of Trustees

A handwritten signature in black ink that reads "Merrill L. Magowan". The signature is written in a cursive, flowing style.



Allerton House, Allerton Garden (Lāwa'i Kai), Kaua'i

A tropical landscape featuring several tall palm trees in the foreground. Behind them, a dense thicket of green foliage and vibrant purple bougainvillea flowers covers a hillside. In the background, a white building with a brown roof is partially visible. The foreground shows a body of water with a sandy or rocky shoreline.

HIGHLIGHTS OF 2012  
**The Gardens**

# Kahanu Garden and Preserve

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Hālau wa'a at Kahanu Garden – near Pi'ilanihale Heiau

**Kahanu Garden:** Located on the island of Maui, this garden is a place where the living collections converge with a living culture. The focus at this garden is Pacific Island ethnobotany – plants used by the people of Polynesia, Micronesia, and Melanesia. Here one learns the cultural relationships between these people and the plants that were transported around the Pacific in ancient voyaging canoes. The adjacent preserve contains one of Hawai'i's last undisturbed native pandanus forests. Kahanu is home to Pi'ilanihale, a massive lava-rock structure that is believed to be the largest ancient place of worship (heiau) in Polynesia. This awe-inspiring cultural site is registered as a National Historic Landmark.

**Kahanu Preserve:** Bordering Kahanu Garden is this roughly 80-acre preserve which contains some of the last high-quality coastal-Pandanus ecosystems in the state, as well as ancient cultural sites. Management of this area concentrates on the removal of invasive tree species, which have the potential to degrade this valuable plant community.

### KAHANU GARDEN 2012 HIGHLIGHTS

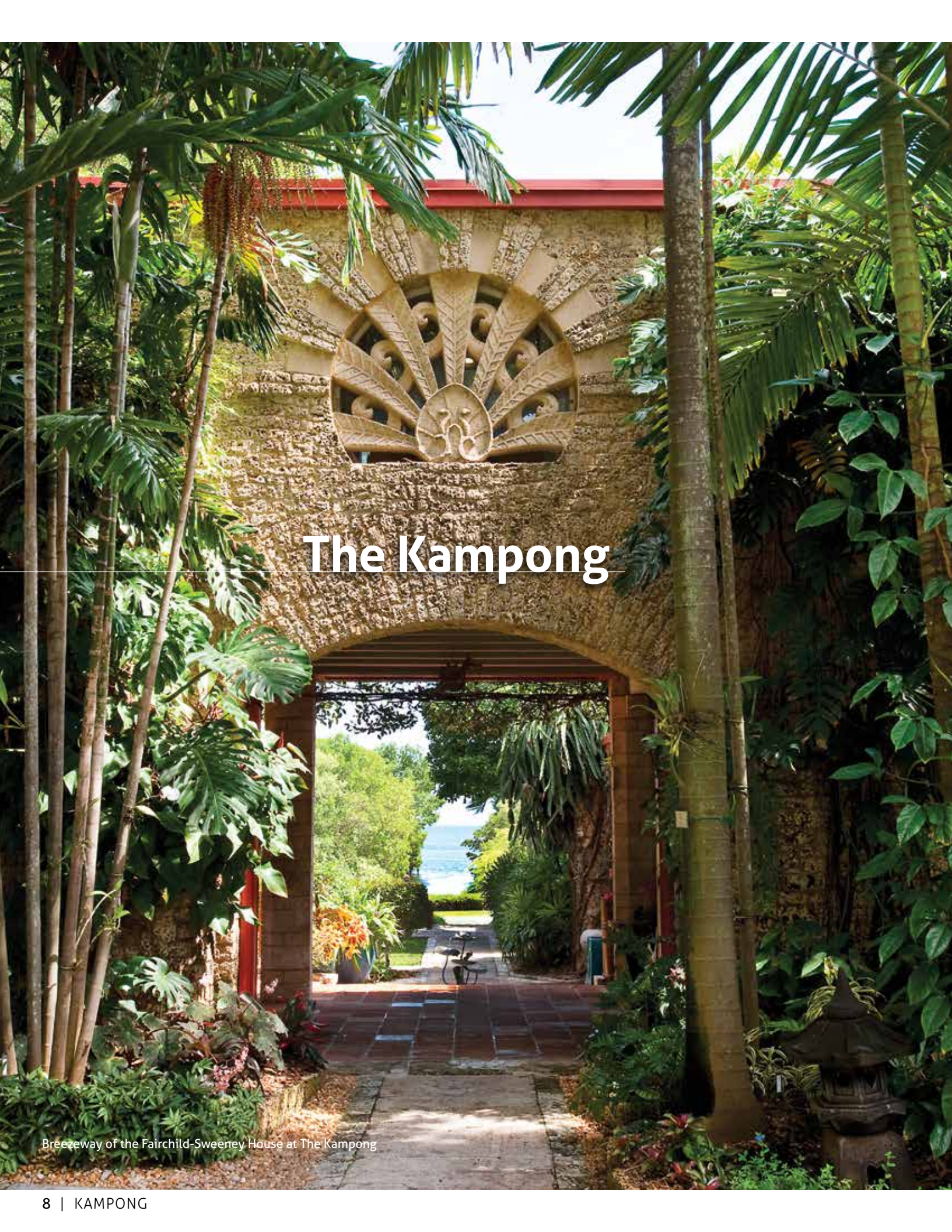
- In summer 2012, Kahanu Garden held the Kūlia I Ka Pono summer program for a successful fourth year. Offered through Kamehameha Schools and led by Kahanu Garden staff, the program reinforces the importance of one's cultural identity and a sense of belonging to the Hawaiian community. The curriculum developed, now being used as a model for other Kamehameha School programs throughout the state, focuses on leadership as it relates to the agricultural practices of Hāna. Students participate in diverse, culturally grounded, enriching 'āina-based experiences, which include cultivation of traditional crops, cultural site management issues, historical lessons, and *mele* (songs) and *oli* (chants) of this *moku* (district). This program helps students develop a strong cultural perspective and leadership qualities.
- On August 14, 2012, the governor of American Samoa, the Honorable Togiola Tala Tulafono, accompanied by his Director and Assistant Director of Agriculture, visited the Breadfruit Collection at Kahanu Garden, enjoyed a lunch prepared by Kahanu staff, and learned more about the work of the Breadfruit Institute, Kahanu Garden, and NTBG.
- Visitor Program expansion and improvements were made in 2012, including the addition of new signage, and the renovation of the gatehouse as a more visitor-friendly entrance. Construction was also started on a new ADA-approved comfort station near the main visitor parking area.



- Nearing completion on a new hālau wa'a (canoe house), part of the "Three Hale for Three Hawaiian Communities" project made possible by a generous grant from the Office of Hawaiian Affairs and contributions from members of the NTBG Council of Fellows. The traditionally thatched hale is a beautiful addition to the garden and has already hosted several educational and cultural tour groups. The construction process created a visible sense of pride in the community members who participated and will serve the garden and the community for many years to come.
- Developed the Coastal Garden with the successful planting of dozens of new plants, including some rare and endangered species. Future plans for expansion of this garden will result in the lengthening of the self-guided tour route.
- Kahanu Garden was invited to take part in a pilot granting program of the NRCS (Natural Resource Conservation Service) for responsible agricultural practice. An NRCS grant funded the installation of a feral animal exclusion and native plant corridor along Honomā'ele Stream. This project was designed to plant beneficial native plants along the stream to stabilize the banks and prevent the runoff from damaging reefs, while excluding invasive animal species. Approximately one mile of fencing was installed to keep out feral pigs, and a 40-foot native plant corridor was established. Staff propagated and outplanted 412 trees and 988 shrubs and herbaceous plants in this corridor, which runs from 'Ula'ino road down to the ocean.







# The Kampong

Breezeway of the Fairchild-Sweeney House at The Kampong

The Kampong is located on the U.S. mainland, bordering Biscayne Bay in southeast Florida. Formerly the residence and private garden of noted plant explorer David Fairchild, the living collections at The Kampong reflect his personal interest for ornamental, edible, and ethnobotanical plants from Indo-Malaysia and the central and south Americas, with particular emphasis on fruit cultivars, flowering trees, and palms. This garden, with its diverse array of plants from the tropics and warm subtropics, is an exceptional setting for the study of tropical botany and horticulture.

The Kampong is listed on the National Register of Historic Places and its proximity to universities and horticultural institutions and agencies make it an ideal location to conduct high-leverage academic programs.

### KAMPONG 2012 HIGHLIGHTS

- In 2012, The Kampong acquired a total of 37 plant accessions through donations, purchases and exchanges. Of these, 20 accessions of aroids (*Amorphophallus*, *Philodendron* species and hybrids, *Anthurium*, *Amydrium*, and *Dieffenbachia*) were donated by Dr. Thomas Croat of the Missouri Botanical Garden and 2005 recipient of the David Fairchild Medal. Additionally, several taxa were new introductions to the garden:  
*Caryota ophiopellis* (distinctive palm from Vanuatu)  
*Alloxylon wickhamii* (endemic to eastern Australia)  
*Poitea florida* (spectacular flowering tree from Puerto Rico/U.S. Virgin Islands)  
*Alpinia carolinensis* (tall ginger from the Caroline Islands)
- The garden distributed seeds, seedlings, and young plants of 44 taxa to Kampong Fellows and members, volunteers, and special guests from its David Fairchild-Inspired Collection. Plants were used as an incentive in the Kampong Membership program and offered during key garden events. The distribution included champak (*Magnolia champaca*), blue sage (*Eranthemum pulchellum*), eggfruit (*Pouteria campechiana*), Fairchild's clerodendrum (*Clerodendrum minahassae*), redleaf philodendron (*Philodendron erubescens*), ylang-ylang (*Cananga odorata*), Barbados gooseberry (*Pereskia aculeata*) and sorrowless tree (*Saraca indica*).
- The Kampong offered a variety of educational programs targeting a wide audience, from elementary students to graduate students, researchers, and physicians. The 2012 Physicians' Course and Scientific Symposium offered a forum for ethnobotanists to share the connection among plants, people, and medicine. Utilizing The Kampong's renowned collection of Southeast Asian plants, participants learned the basics of ethnobotany and plant identification. Dr. Wade Davis recipient of the Fairchild Medal, gave the Symposium's keynote address, sharing his insights

into the ultimate question: *What does it mean to be human and alive?* The University of Florida's tropical botany course, taught by systematist Dr. Walter Judd, highlighted the collections and used the Kenan Science Laboratory, classroom, and Tyson Dormitory in the Scarborough House. The afterschool program with the Kampong Barnyard After-School Program began its fourth year in the fall. The Kampong Lecture Series featured regional and local speakers on topics of landscape design, plant exploration, and Kampong history.

- In June 2012, a \$2.5 million challenge gift from the Kenan Trust was secured to lead the campaign for a new International Center for Tropical Botany that will be located at The Kampong. The new Center, a collaboration between Florida International University and NTBG, will advance the study and conservation of tropical plants and tackle global environmental issues. A key part of the center's work will be training new scientists.

#### Fairchild Medal for Plant Exploration

The name David G. Fairchild (1869-1954) has been synonymous with plant exploration since the late 1800s. In 1999, the National Tropical Botanical Garden created this annual award to honor scientists who carry on this great tradition. Over the years NTBG has recognized, through this prestigious award, some of the world's great modern botanists who, like Fairchild, have bushwhacked, paddled, and ventured to the far reaches of the world to seek out and better understand the world's plants. It was only fitting that NTBG would select its Florida garden, The Kampong, for the medal presentation. It is there, as Fairchild's former home, that his heritage collections live on.



#### 2012 Recipient: Dr. Wade Davis

Davis, a renowned scientist, scholar, and explorer was recognized for his multi-faceted career as a biologist, anthropologist, ethnobotanist, and documentarian of people, plants, and places.

Davis spent much of the last four decades in remote field settings observing and recording the biological and cultural diversity of the planet. He has worked in more than 50 countries with great attention given to the people and plants of Colombia, Peru, Borneo, Tibet, Haiti, Australia, Greenland, and Polynesia. Davis's exploration has taken him to the most remote outposts of the world's great forests, deserts, mountains, tundras, and jungles from the Amazon to Africa and the Andes to the Arctic. In addition to Davis's scientific achievements, he is well-known as a photographer, filmmaker, author, and public speaker. Among his 15 books is *The Wayfinders: Why Ancient Wisdom Matters in the Modern World*. Identifying himself simply as a storyteller, Davis believes that communicating the accumulated knowledge and wisdom of humanity and its environment is as effective an agent for positive change as any. Storytelling, Davis says, can transform mankind's relationship with the natural world. Through documentary films like *Light at the Edge of the World* and *Cry of the Forgotten People*, Davis has helped raise awareness of the importance of preserving the world's natural and cultural wealth. He is currently an explorer-in-residence with the National Geographic Society.

*"From exploring remote regions to the preservation of threatened and endangered habitats and communities, Wade Davis encapsulates the impassioned spirit of an explorer who connects deeply with indigenous cultures as he helps safeguard them. We are proud to present our highest honor for exploration to Dr. Davis."*

– Chipper Wichman, NTBG Director and CEO

*"Wade is one of those rare scientists able to interpret his work to the layman in writing and lectures. He truly merits the Fairchild Medal as he combines all the qualifications as a scientist, explorer, and writer."*

– Prof. Sir Ghilleen Prance, FRS, NTBG Trustee



# Limahuli Garden and Preserve

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Ka Hale Ulu a Hāloa at Limahuli Garden, built on an ancient house site above the taro terraces

**Limahuli Garden:** Surrounded by ancient peaks on the wetter north shore of Kaua'i is Limahuli Garden. The garden proper is backdropped by a nearly 1,000-acre natural and cultural preserve. This site was once a Hawaiian ahupua'a, an ancient land division system incorporated natural resources from the mountains to the sea. The valley encompasses three distinct ecological zones and contains a wide range of habitats for growing native plants. In addition to indigenous plants, the collections include Polynesian and modern introduced plants that demonstrated the invasive nature of introduced species on native plant communities. Within the garden's boundaries are ancient agricultural terraces created by the Polynesians nearly 1,000 years ago.

**Limahuli Preserve:** This nearly 1,000-acre preserve is located on the northern part of Kaua'i in the Limahuli Valley. An isolated area, it is surrounded on three sides by precipitous ridges 2,000 feet high. Within this area are three separate ecological zones, numerous endangered species, and many ancient Hawaiian archaeological sites. Based on the topography, NTBG has created two distinct management areas: the Upper Preserve, a remote hanging valley at 3,300 feet at its highest point near the Alaka'i Swamp, and the Lower Preserve, bordered by an 800-foot waterfall emanating from the Upper Preserve on the south and the interior edge of the public garden on the north. The Upper Preserve requires the use of a helicopter for access. In 2009 NTBG completed the construction of a fence along five miles of the ridgeline that excludes feral ungulates (pigs and goats) from this pristine area. Efforts in the Lower Preserve have been directed at restoring native forests from tree canopy down to ferns and other groundcovers.

## LIMAHULI GARDEN 2012 HIGHLIGHTS

- Added to the living collections in the garden's Forest Walk, a section of the garden designed to interpret NTBG's work in both habitat restoration and saving critically endangered species. The Forest Walk is the result of a collaboration among NTBG's Assistant Director of Living Collections and Horticulture, the staff of NTBG's Lāwa'i Valley Conservation and Horticulture Center and the staff of Limahuli Garden to further increase the diversity of rare native species in this area. The plant species added in 2012 have brought the levels of plant diversity up to a range that would have been found in the forests of NW Kaua'i 200 years ago. The Forest Walk now includes 113 species of native plants, including 16 fern species and 11 critically endangered plants in the Plant Extinction Prevention (PEP) program, with wild populations of less than 50 individuals.
- Formalized a relationship among Limahuli Garden, community leaders, and other organizations in the Hā'ena Ahupua'a Alliance to ensure that the large-scale stewardship efforts are collectively working towards the same vision in a collaborative and complementary manner.

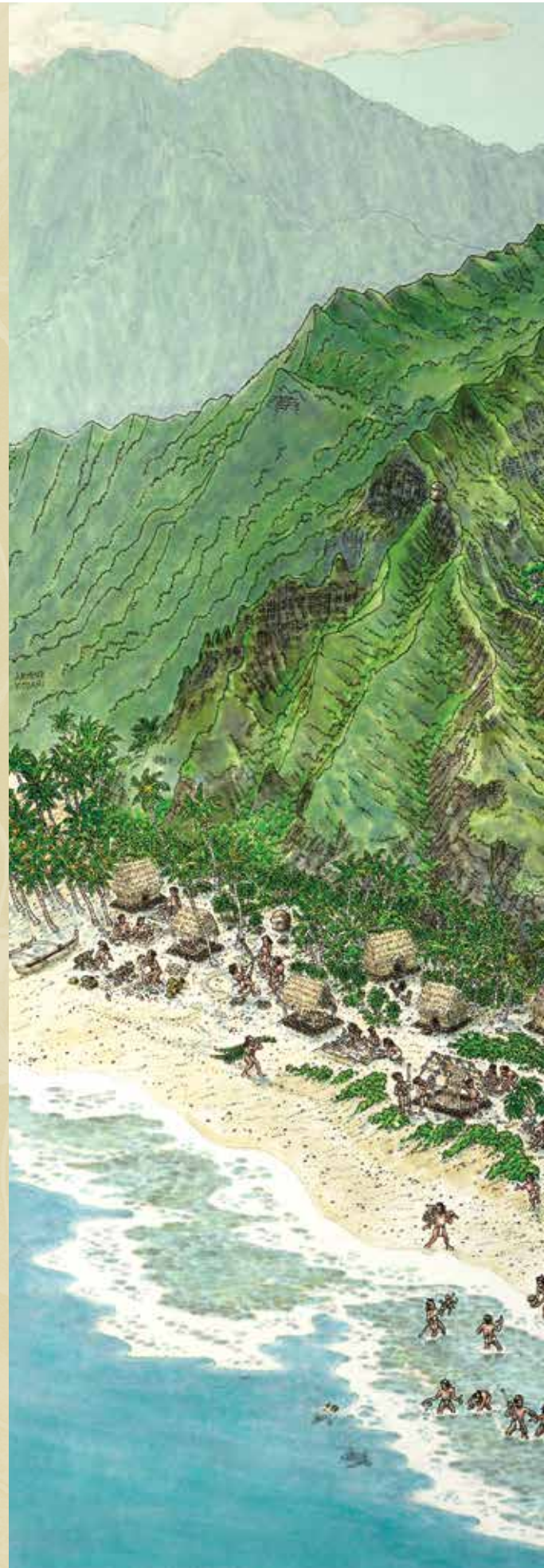
## “Mountain to Sea”

In a continuing effort to ensure that the Garden is looked to as a well-informed leader in its local communities and in the state, Limahuli Garden and Preserve has begun to engage in community issues that affect the integrity of Hā'ena's natural and cultural resources.

The Garden upholds the ahupua'a system – a complex form of land division – as a visionary model for sustainability. This system restores an ancient method of community-based, subsistence agriculture that also empowers indigenous people.

Each island was divided into wedge-shaped parts that ran from the mountain top and extended out into the sea, following the natural boundaries of the watershed. These land sections were called ahupua'a, each one containing all the resources needed to feed, clothe, and shelter the large number of people who lived there.

Through the work of the garden on its 1,000-acre property, such as forest restoration efforts, and its efforts outside of the garden, such as a community-based subsistence fishing area, Limahuli Garden is a leader in community-based resource management.







Artistic depiction of the ahupua`a of Hā'ena, where Limahuli Garden is located.

# Kaua'i Southshore Gardens – McBryde and Allerton



Lāwa'i Bay and lower Allerton Garden, Kaua'i

**McBryde Garden:** NTBG's flagship garden, this 200-acre garden (with an adjacent nature preserve) is situated in the picturesque Lāwa'i Valley on the south shore of Kaua'i. The garden is named for the descendants of the family that once cultivated sugar cane in the valley. McBryde is a veritable "Noah's Ark" for tropical plants; the world's largest assemblage of native Hawaiian plants, including endangered and extinct-in-the-wild species, are sheltered in the upper end of the valley. Ethnobotanical plants (plants used by indigenous people) of Polynesian origin form the Canoe Garden. Living collections include significant groupings of rare palms, Rubiaceae, heliconias and gingers, Pacific Island endemics, and flowering trees. NTBG's state-of-the-art conservation and nursery facilities are located here, just down the valley from the herbarium, research library, and laboratories at the headquarters campus.

**Allerton Garden:** A masterwork of landscape design created by Robert and John Gregg Allerton, Lāwa'i Kai, as they called it, lies along the Lāwa'i Valley coastline and serves as the majestic public entrance for the McBryde and Allerton gardens. Once a retreat of Hawai'i's Queen Emma, the property was acquired by the Allertons in the late 1930s. World travelers, the Allertons brought back unique tropical plants and European and Asian statuary and artifacts, and created a garden paradise. The harmony of Robert's artistic talents and John Gregg's architectural skills resulted in a living painting. Outdoor "rooms" were created with walls of plants surrounding gravity-fed pools and fountains. The meandering and peaceful Lāwa'i Stream enters the Allerton Garden at its border with the McBryde Garden and flows through the garden toward the sea into a protected bay.

**Lāwa'i Preserve:** Located on the lands above the waterfall in the McBryde Garden near the southern coast of Kaua'i is the nearly 50-acre Lāwa'i Preserve. This area contains pasture lands and a riparian zone that was never developed by the plantations when they farmed sugar cane and pineapple in the Lāwa'i Valley. As a result, it still contains ancient archaeological sites as well as a riparian plant community dominated by Polynesian-introduced plants.

## SOUTHSHORE GARDENS 2012 HIGHLIGHTS

- Finishing enhancements were made to the new Malott Trail, which runs through the Lower Native Plant Garden in McBryde Garden. This is the center of continued expansion of the Garden's living collections, with the focus on native plants featuring rare and endangered species. Cliff species, that would otherwise struggle to survive or be overgrown by other plants, were planted in niches in rock walls along the trail. Over 90 gardenia, representing different collections from Lāna'i, were added. More than 4,000 new plants are now growing along and around this trail.
- In summer 2012, work began on a 1,810 ft. x 12 ft. paved road around the fruit orchard in McBryde Garden, which is a major portion of the southshore gardens' vehicle route in the valley. This road will finally separate vehicular access from visitor walkways and will allow garden facilities staff to begin work on an interpretive pedestrian trail, designed to give visitors an experience and education in biodiversity.



# Breadfruit Institute

Since the late 1970s, NTBG has assembled the largest and most extensive breadfruit collection in the world through field expeditions to more than 50 Pacific Islands and collections from the Seychelles, Indonesia, and the Philippines. The collection is maintained at NTBG's Kahanu Garden on Maui and the three Kaua'i gardens, with more than 120 cultivars (varieties) represented, some of which are now extinct on their native islands.



Breadfruit Grove at Kahanu Garden



## **BREADFRUIT INSTITUTE 2012 HIGHLIGHTS**

- Breadfruit tree planting projects continued to spread around the world in 2012. As part of the Breadfruit Institute's Global Hunger Initiative, Ma'afala and 'Ulu fiti plants from Global Breadfruit have now been shipped to 14 countries, with Nicaragua and Myanmar receiving plants for the first time.
- In October 2012 the Institute launched the Plant a Tree of Life – Grow 'Ulu project, supported by a grant from the Ceres Trust, and distributed more than 1,000 Ma`afala trees on Kaua'i and O'ahu.
- Global Breadfruit has developed commercial micropropagation methods for two cultivars – Ma'afala and 'Ulu fiti – and can now ship weaned plants from production facilities in Europe, Central America, and Florida.
- Dr. Diane Ragone was the keynote speaker at the Two Samoas 'Ulu Summit held in Pago Pago, American Samoa, in December 2012. The summit was convened by the Honorable Togiola Tulafono, governor of American Samoa, to explore the possibilities of commercializing breadfruit in Samoa.
- The Breadfruit Institute and the Hawai'i Homegrown Food Network held two successful festivals on Hawai'i Island, with support from Kamehameha Schools, the Office of Hawaiian Affairs, and the Hawai'i Tourism Authority.
- The "Breadfruit Goes Bananas" Festival was held at the Amy B. Greenwell Ethnobotanical Garden in Kona in September 2012. The program included a breadfruit buffet, a cooking contest, presentations by cultural experts and members of the Breadfruit Institute team, and cooking demonstrations featuring celebrity chef Sam Choy.
- More than 1,000 people attended the second Breadfruit Festival held at Kua O Ka Lā Public Charter School in Puna on Hawai'i Island in March 2012. The festival included games, music, Ma'afala tree sales, along with a breadfruit buffet, cooking contest, presentations, and cooking demonstrations. The festival was also sponsored by Ho'oulu Lāhui, Kua O Ka Lā PCS, and Kamehameha Schools.



# Conservation

Hawai'i and the greater Pacific region is considered the "epicenter of extinction" and it is here that the NTBG biologists have pioneered rough-terrain and high-cliff climbing techniques to gather seeds of rare species, some of them now extinct in the wild. Collecting is the first crucial step in NTBG's endangered plant conservation strategy.

The alarming fact is that more than one-third of all tropical plants are under the threat of extinction.

Garden staff collect tropical flora of every nature and origin. Dangling from climbing ropes, our botanists have hand-pollinated endangered species on towering cliff faces because the loss of even one species may contribute to the decline of an entire ecosystem.



## CONSERVATION 2012 HIGHLIGHTS

- Genetically diverse collections are essential to the recovery of rare species. NTBG made significant findings for the future of Hawai'i's rare plant species through a survey conducted in partnership with Lyon Arboretum: A "Statewide Assessment of Ex Situ Status, Capacity and Needs for the Conservation of Hawaiian Plants." This included which species of conservation concern are secured in ex situ (off-site) collections (seed storage, micropropagation, or garden collections) and which are unsecured or under represented. It also reviewed the current capacity of existing nursery, seed storage, garden and micropropagation facilities, and made recommendations for increasing capacity, including training, additional personnel, and upgraded equipment. This survey was made possible through a grant from the Hau'oli Mau Loa Foundation.
- The Upper Limahuli Preserve (ULP) Management Program efforts continue to protect the rare plants, endangered seabirds, and other precious natural resources of the preserve and improve nesting habitat for two species of endangered, ground-nesting seabirds: the 'a'o (Newell's shearwater, *Puffinus newelli*) and 'ua'u (Hawaiian petrel, *Pterodroma sandwichensis*). A rat-control program to protect nesting seabirds from rat predation is a significant part of this program. NTBG conservation staff began a collaboration with Goodnature New Zealand to help them develop innovative approaches in rodent-trapping technology, which will benefit conservation programs throughout the islands. The ULP Management Program will be used as a pilot project to develop techniques that could be adopted by other projects.
- NTBG began a restoration program for *Cyanea rivularis* in the upper Limahuli preserve (ULP). This species is on the brink of extinction with only four mature individuals known in the wild, and conservation actions are essential. In 2012, 52 plants of *Cyanea rivularis* were outplanted in the ULP in three different sites, with a 92% survival rate of outplants after one year; and 12 plants have grown to maturity. These efforts will be continued, with a goal of 50 mature *Cyanea rivularis* plants secured in three different sites within the ULP and all available founders represented in each site.
- A new field school offering was hosted by NTBG in summer 2012: a Geospatial Research and Mapping Program funded by the National Science Foundation (NSF). A part of NSF's prestigious Research Experiences for Undergraduates program, this program is part of a three-year collaboration with the California State University-Long Beach Department of Geography. Students are chosen from a competitive applicant pool to carry out high-resolution aerial photography, mapping and monitoring activities associated with conservation planning and management. The program included use of unmanned miniature aircraft, ground-penetrating radar, and other high-tech equipment to prepare state-of-the-art maps of restoration sites and archaeological features.



### Plant Discovery Highlights

- A new species of *Melicope* (Rutaceae) was discovered in the remote interior canyon region of Kaua'i. The new discovery was made during a U.S. Fish and Wildlife Service-funded survey focusing on locating two other *Melicope* species (i.e., *M. nealae* and *M. macropus*) reported as extinct. Seed collections were made.
- Trees of another new species in the genus *Coprosma* (Rubiaceae) were found just below Kawaikini, the highest peak on Kaua'i.
- Important new locations for Hawai'i's rarest taxa were also documented, including the following Plant Extinction Prevention (PEP) species having fewer than 50 individuals left in the wild: *Cyanea rivularis*; *Cyanea undulata*; *Melicope haupuensis*; *Nothoctrum peltatum*; *Labordia lydgatei*; *Lysimachia venosa*; *Phyllostegia wawrana*; *Polyscias flynnii*; and *Xylosma crenatum*. Seeds were successfully collected from many of them.





*Hibiscadelphus woodii*, a Hawaiian plant recently included in an International Union for the Conservation of Nature publication listing one hundred of the world's most threatened species. The species was named after its discoverer, NTBG Research Biologist Ken Wood.



# Education

Education is an integral part of NTBG's mission and has the power to open up the world of discovery, science, conservation, and horticulture to people of all ages and interests. It is through this process of learning that lifelong connections are forged between people and their environment.

NTBG seeks to engage the community and promote public understanding of tropical plants and their ecosystems, as well as traditional knowledge of cultural practices, by providing a broad spectrum of unique learning opportunities – from courses designed for professionals, curricula for college undergraduate and graduate students, programs for schoolchildren of all ages, and workshops and lectures for the public.

Participants in NTBG's Science Teachers' Enrichment Program during a field trip to Alaka'i Swamp on Kaua'i.

## EDUCATION 2012 HIGHLIGHTS

NTBG offered a wide variety of courses in 2012 that encompassed a wide span of ages, cultures, education and interests:

- **NTBG Physicians' Course & Scientific Symposium: (The Kampong)**

A total of 28 participants attended the all-day course which was moderated by Dr. Ray Lopez.

- **Science Teachers' Enrichment Program (STEP): (Kaua'i Gardens)**

Professor Brian Yamamoto of Kaua'i Community College and NTBG staff taught the STEP course in July 2012. STEP enhances teachers' knowledge and equips them with the tools to spark their students' interest in science.

- **Kamehameha Schools Kūlia I Ka Pono Program: (Kahanu Garden)**

The Kahanu Garden staff, along with many members of the Hāna community, led the six, one-week boarding programs focusing on the concept of service leadership and "ma ka hana ka 'ike" - learn by doing. This program attracted over 150 grade students who learned about horticulture, ethnobotany, and island culture.

- **Keiki o ka 'Āina: (Southshore Gardens)**

The educational nature adventure camps included two one-week camps that served 40 youth from ages 6 through 12. The camps teach children about natural resources, environment and culture through experiential learning. The program is designed to help trigger the imagination and curiosity of tomorrow's young researchers and botanists.

- **University of Florida Tropical Botany Course: (The Kampong)**

This three-week course, held in summer 2012, made use of every part of The Kampong's educational facilities and living collections.

- **Geospatial Research and Mapping Program (Kaua'i Gardens)**

The new field school offered by NTBG and California State University-Long Beach Dept. of Geography: (Conservation) was funded by the National Science Foundation. This prestigious program involved over 20 exceptional students whose projects managed to also help NTBG achieve some of its strategic objectives.

- **Environmental Journalism Fellowship: (Kaua'i Gardens)**

This six-day program allows visiting journalists and others who write about the environment to spend full days attending scheduled talks and field activities led by NTBG's scientists, educators, conservation staff, and outside specialists. It is the only course in the country that teaches participating journalists about tropical ecosystems in a tropical setting.

- **Kōkua 'Āina Youth Initiative (KAYI): (Southshore Gardens)**

This program is designed to provide a "green collar" career pathway experience for local students (ages 16-20) to discover career options within the fields of horticulture/agriculture, conservation, small business, and community development/social entrepreneurship, and to gain traditional Hawaiian knowledge. Additionally participants learn how to navigate today's competitive job market, and the nuances of successful interview preparation.

- **Garden as Classroom (GAC): (Kaua'i Gardens)**

The GAC Program provides opportunities for schoolchildren on the island of Kaua'i to study tropical plants. The course curriculum is designed to closely match the content standards mandated by the Hawai'i Department of Education.

- **The Barnyard After-School Program: (The Kampong)**

This program, taught by Kampong Fellows, was held for six weeks in spring 2012. Youth learned about plants through science, art, and food while participating in hands-on activities.

- **Horticultural Internship Program: (All Hawai'i Gardens and Programs)**

This program offers work-study internships for college- and university-level students and other adults interested in expanding their knowledge of horticulture for career purposes. The schedule includes on-the-ground introduction and training, lectures, or workshops by NTBG faculty on plant propagation, plant records/mapping, botany, ethnobotany, restoration ecology, conservation, and other plant-related topics. Interns work side-by-side with staff caring for and learning about the plant collections, including native Hawaiian species, breadfruit, and other tropical species.

### **Spotlight: Kōkua 'Āina Youth Initiative**

In 2012, NTBG's Kōkua 'Āina Youth Initiative (KAYI) mentored junior and senior high school students to become successful college applicants. A main programmatic aim for KAYI has been to empower local at-risk students to gain the confidence and skills to continue into a 13th year of school.

Several of the 20 youth participating in 2012 celebrated impressive personal accomplishments:



- Competing against hundreds of students from other countries, KAYI student Keala Rapozo took the top award in a prestigious international environmental outreach competition: the "Olympic lei" competition of the international *Fairchild Olympic Challenge*. This competition is presented by Botanic Gardens Conservation International (BCGI) and Fairchild Tropical Botanic Garden in Florida. Five other students in the KAYI program also received certificates of commendation.
- KAYI student Ku'uipo Rapozo was one of 25 students nationwide who was selected to attend Brown University's Environmental Leadership Lab spring internship.
- Six out of the eight seniors successfully graduated from high school and will be attending college.
- Two of the graduating seniors, Nathan Emayo and Ephraim Mose, received Wai'ale'ale project scholarships. This project provides scholarships and academic support to participants to study at Kaua'i Community College.
- One KAYI youth, Kelsey Hedges, was selected and participated in the Hawai'i Youth Conservation Corp KUPU program.
- During the summer, 14 youth participated and completed a rigorous six-week mentorship working with everyone from gardeners to administrative staff. This was a great experience for both staff and youth.



Opposite page: NTBG's Kōkua 'Āina Youth Initiative student Keala Rapozo models her award-winning Olympic lei



## Scientific Research

NTBG's five gardens and five preserves are much more than pretty landscapes with rare and interesting plants – they are living laboratories that hold the answers to research questions that have yet to be asked.

Scientific research, a major component of NTBG's work and an area that distinguishes it from many other botanical gardens, is critical to understanding plants and the ecosystems in which they evolved, and how we can best perpetuate and use them to enrich life on our planet. NTBG's considerable living collections, herbarium and library collections, and laboratories provide outstanding resources for research on tropical plants.

Reference collections, which are essential for scientific research, are housed in the state-of-the-art, climate-controlled and LEED-certified Botanical Research Center.

## SCIENTIFIC RESEARCH 2012 HIGHLIGHTS

- The National Tropical Botanical Garden's archives hold an impressive collection of over 15,000 color slides of plants, places, people, and botanical expeditions. In order to preserve these images before the film gradually fades and deteriorates they must be scanned and digitized, and the information (metadata) written on the slide margins entered into a searchable database. In 2012, with funding from a two-year grant awarded by the Institute of Museum and Library Services, a technician has databased and prepared for digitizing over 4,000 slides from Hawai'i, Micronesia, the Marquesas, and Fiji. A contribution from the Smithsonian Institute's Department of botany, through a Wolcott Foundation grant, has allowed NTBG to scan the first batch of 2,000 slides. These images are being posted on the joint Smithsonian-NTBG website featuring flora of these Pacific Island groups.
- In April 2012 a new McBryde Graduate Research fellowship program was launched, supported by funds from the McBryde Chair endowment. The program will present several awards of \$1,000 - \$3,000 annually. The first two recipients are Jason Cantley and Karen Muscat. Cantley, a graduate student in botany at the University of Hawai'i – Mānoa, received an award to work on a comparative study of *Melanthera* and *Lipochaeta* (Asteraceae) in Hawai'i including *Melanthera* outgroups (relatives) in Africa. Muscat, a PhD Candidate at the School of Botany, The University of Melbourne, Victoria, Australia, is working on the challenging and taxonomically complex flax lily genus, *Dianella*, which is currently not well understood in the Hawaiian and other Pacific islands.
- NTBG's state-of-the-art Botanical Research Center is used as an educational and interpretive venue to explain the importance of natural history and library collections and demonstrate how essential plants are to human existence. In 2012, the Center hosted 598 visitors including classes from local schools, the Kaua'i Community College, participants in meetings and workshops held at NTBG such as the annual botanical illustration course, special tours, and interested individuals from Hawai'i and abroad.
- Dedicated volunteers from the local community constitute an invaluable work force; in 2012 Science Department volunteers contributed 647 hours performing a variety of tasks including specimen data entry, mounting and photographing specimens, inventorying collections, and monitoring insect traps.
- In December 2012, NTBG published Volume 12 of its journal *Allertonia*. Authored by Prof. Sir Ghilleen Prance, FRS, this 164-page issue titled "A Revision of *Barringtonia* (Lecythidaceae)" presents an updated taxonomic treatment of this important Indo-Pacific genus of tropical trees and shrubs, recognizing 69 species and describing two species new to science. Several of the species have edible seeds or other ethnobotanical uses. Many of the species in this publication are illustrated by line drawings, distribution maps, and color photos.
- Science and Conservation department staff discovered, named and published two new species of flowering plants in 2012, one from Hawai'i, the other from Micronesia, underscoring the need for additional field explorations and botanical inventory work in the Pacific.

A lush green forest floor with various plants, including ferns and succulents. The scene is filled with vibrant green foliage, with some plants showing signs of aging or damage. The lighting is natural, highlighting the textures and colors of the plants.

# Living Collections

The Living Collections are at the very core of NTBG's mission. Intentionally designed to serve research, conservation, and educational needs, they are the botanical equivalent of the masterpieces displayed in museums of art, and involving that same level of curation and care. Botanical records are a critical component, containing the intimate details of provenance, distribution, population status, horticultural requirements, and other data.





The National Tropical Botanical Garden maintains the largest collection of federally listed endangered plants and the world's largest assemblage of native Hawaiian plant species

#### LIVING COLLECTIONS 2012 HIGHLIGHTS

- NTBG's palm collection has expanded with plants donated by private gardens, including the only known specimen of the extremely rare *Dypsis carlsmithi*, a palm native to Madagascar. These palms were not previously represented in NTBG's collections, and most have been planted in the Palmetum in McBryde Garden.
- Educational programs were offered to engage local community members and further the educational mission of NTBG, including a native plant propagation class provided to the volunteers of the Kīlauea Lighthouse Wildlife Preserve and members of the Kaua'i Native Plant Society, and a vegetable propagation class open to the public.
- Two trees of the rare Hawaiian palm *Pritchardia viscosa* began to mature, flower and set seeds in the McBryde Garden. This promises to be of great value to the conservation of the species, which has been reduced to just four individuals in the wild.
- Living Collections and Horticulture acquired a great deal of expertise on its team in 2012 through the addition of new staff members and enrichment training for existing staff members: A new Plant Records Manager, with strong data management, analysis and tracking skills, and a new Nursery Manager, with extensive experience in plant propagation and volunteer management, were hired. Enrichment training resulted in two new Certified Landscape Technicians and one new Certified Pesticide Applicator.

## NATIONAL TROPICAL BOTANICAL GARDEN

### Balance Sheets December 31, 2012 and 2011

(In thousands)

	2012 \$ 000	2011 \$ 000
<b>ASSETS</b>		
Cash and cash Equivalents	\$ 1,276	\$ 1,158
Other current assets	3,685	1,481
Fixed assets	39,835	39,860
Assets held for investment	25,715	25,015
<b>TOTAL ASSETS</b>	<b>\$ 70,511</b>	<b>\$ 67,514</b>
<b>LIABILITIES AND NET ASSETS</b>		
Liabilities:		
Current liabilities	\$ 835	\$ 856
Long-term debt	3,872	1,935
Net Assets:		
Unrestricted	32,290	31,897
Temporarily restricted	7,109	7,028
Permanently restricted	26,405	25,798
<b>TOTAL LIABILITIES AND NET ASSETS</b>	<b>\$ 70,511</b>	<b>\$ 67,514</b>

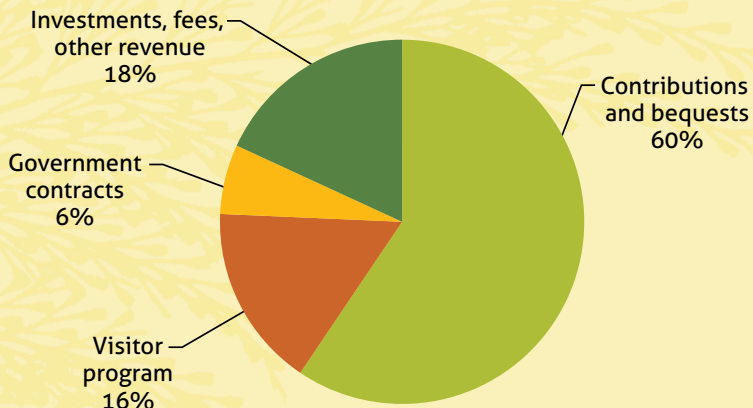
### Statement of Activities Year ended December 31, 2012 and 2011

(In thousands)

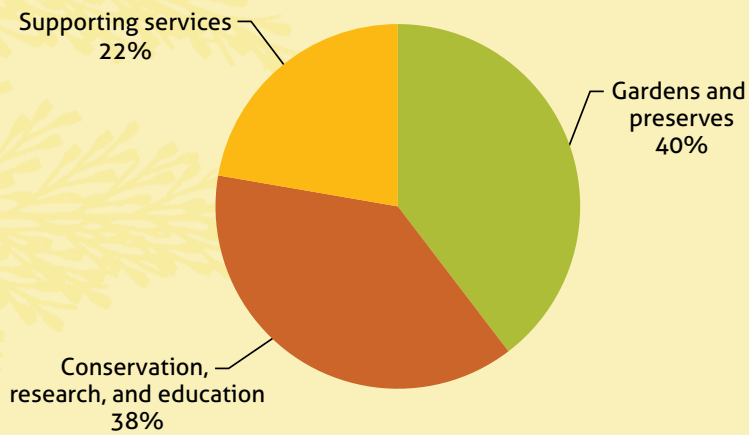
	2012 \$ 000	2011 \$ 000
<b>REVENUES AND SUPPORT</b>		
Contributions and bequests	\$ 6,915	\$ 5,629
Visitor program	1,890	1,731
Government contracts	719	631
** Investments, fees, other revenue	2,109	334
<b>TOTAL REVENUES AND SUPPORT</b>	<b>\$ 11,633</b>	<b>\$ 8,325</b>
<b>EXPENSES</b>		
Gardens and preserves	\$ 4,181	\$ 3,706
Research and education	4,020	3,491
Supporting services	2,351	1,905
<b>TOTAL EXPENSES</b>	<b>\$ 10,552</b>	<b>\$ 9,102</b>
<b>CHANGE IN NET ASSETS</b>	<b>\$ 1,081</b>	<b>\$ (777)</b>

\*\* Includes unrealized gains (losses) on investments in 2012 and 2011 of \$427 and (\$803) respectively.

## REVENUE AND SUPPORT 2012



## EXPENSES 2012



2012 figures are from internal financials prior to audit and 2011 figures are excerpted from the independent auditor's report, copies of which are available at [ntbg.org/about/financial.php](http://ntbg.org/about/financial.php)



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NATIONAL TROPICAL BOTANICAL GARDEN

# Council of Fellows

The NTBG *Council of Fellows* was established in 1985 to involve the friends of the Garden in its development as a national resource. Fellows are invited to participate in the bi-annual Board of Trustees meetings, one held in Hawai'i in the spring and the other in the fall on the mainland. Also, Fellows have the opportunity to participate in specially arranged international travel programs which include visits to private and public gardens.

Annual membership dues begin at the \$1,500 level and continue up to the Chairman's Circle level. All funds thus raised are dedicated to Garden operations. Many Fellows become involved with the Garden's special programs and projects. They have been instrumental in helping the NTBG become one of the most important tropical botanical gardens in the world.

The following list reflects all those who were active members of the Council of Fellows during the calendar year 2012. While every effort has been made to ensure the accuracy of information and spelling, please notify our Development Office at 808-332-7324 ext. 235 or [dsimons@ntbg.org](mailto:dsimons@ntbg.org) of any errors.

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## 2012 Fellows Project: Three Traditional Hale for Three Hawaiian Communities

### MANY HANDS HELP TO REVIVE AN ANCIENT HAWAIIAN TRADITION

It has been a longtime dream at three of our Hawai'i gardens – McBryde Garden and Limahuli Garden on Kaua'i, and Kahanu Garden on Maui – to build traditional hale (Hawaiian thatched structures) to introduce new generations to Hawaiian Island culture and history and to help revive an important traditional Hawaiian practice that honors and perpetuates the legacy of Hawai'i's people.

Last year, a generous grant from the Office of Hawaiian Affairs and contributions from members of NTBG's Council of Fellows made this dream a reality. Staff and volunteers at all three gardens began participating in instructional workshops with master hale builder Palani Sinenci in preparation for construction of a hale at each garden.

Palani and his haumāna (students) went into great detail teaching the teams of NTBG staff and volunteers (many with Hawaiian ancestry) about the history of hale building and how this project would be an important link in the revival of this traditional practice. The best locations to harvest wood for the project were selected, emphasizing the use of non-native invasive trees. The teams cut and de-barked the trees and, in accordance with ancient methods, soaked the wood in the ocean.

The teams cut and de-barked the trees and, in accordance with ancient methods, soaked the wood in the ocean.

Next, each garden held a series of Laulima workdays. Laulima literally means "many hands," a group of people working together, which was a very important aspect of the project. In many societies the entire community helped to get major projects done. Some Laulima workers travelled between the Kaua'i and Maui gardens to set the foundations of the hale and the posts. This was followed by volunteer teams working together to lash and thatch the hale. Community members, school groups, volunteer groups, staff, and others came together to work and learn. The project served to tie the communities of all three gardens – Hāna, Hā'ena, and west Kaua'i – more closely together as staff and volunteers shared their experience, expertise, and skills.

Through these buildings, we have provided an opportunity for the community to experience the art of hale building. It is our hope that we have forged or strengthened connections with the past for those who participated and will do so in the future for the many people who will see and use these hale.

*Mahalo to the NTBG Council of Fellows and the Office of Hawaiian Affairs for their generous support of these very special additions to our Hawai'i gardens!*



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*"Recent rediscoveries by NTBG botanists of plant species in the wild, such as uhiuhi and kokio ula, are cause for great excitement and hope. It is work such as this that is absolutely vital for the preservation of these rarest of the rare, without which the world would be much poorer. By taking a tour of any of their gardens, NTBG also gives us the chance to see these plants without having to be suspended by a rope 3,000 feet above the Kalalau Valley!"*

~Keith Evans, NTBG Member, Sonoma County, California

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*"Every time we have visited the Gardens on Kauai we have seen something new and different. The most memorable visit included the quarantined medicinal plants and the plants we could get up close to that were the only known plants of a species. It is a pleasure to be a member of NTBG."*

-T. Ray and Marjorie Jacobs, NTBG Members, Missoula, Montana

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*"We have a great respect for the work that NTBG is doing to preserve and protect rare plants as well as educating the public about the diversity and complexity of Kauai's lush environment. Sharing this knowledge and awareness with people of all ages is critical to influencing their appreciation of the fragility of our environment as well as the survival of all on this planet."*

~Wayne and Marsha Williams, NTBG Members, Sherman Oaks, CA

*"Over the years we have watched Kahanu Garden mature, grow, and change. We love the programs that bring in schoolchildren to learn about botany, Hawaiian culture, and history. The breadfruit collection has become an important research focus for the organization. Kahanu is a jewel in the NTBG string of Gardens."*

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~ Joy Erickson, NTBG Member, Seattle, Washington



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Faith Jefferies  
Martin Jefferies  
Dohn Johnson  
Ruth Johnson  
Ken Johnson

Loren Johnson  
Fran Jones  
Hiochia Joyce-Marsh  
Shawn Kanahela  
Stella Kaneko  
Laka Kaohelaul  
Brian Kasperek  
Colleen Kasperek  
John Katko  
Art Kattan  
Mildred Kattan  
Fred Kauffman  
Brenda Kaushik  
Milton Kawaiaea  
Hatsako Kawasuchi  
Lopaka  
Keahinohomoku  
Tatiana  
Keahinohomoku  
Ingrid Kelly  
Megan Kirkpatrick  
Gloria Kiskan  
Donnie Klassen  
Mark Klassen  
Rosemarie Kohn  
Loren Kohnfelder  
Rogerlyn Konealii  
Keith Koplan  
Merle Koplan  
Georgette Kopp  
Elton Koroly  
Bonnie Kuehner  
Noel Kuehner  
Savitri Kumaraan  
Eleanor Lahn  
Bill Laidlaw  
Lucia Laidlaw  
Laurie Landes  
Shari Lane  
Colleen Lang  
Joan Langan  
Cindy LaPerche  
Jamie Lapilio  
Lynda LaRocca  
Lori Larsen



Jin-Wah Lau  
 Marion Lawder  
 David Lee  
 Kathi Lee  
 Waterlily Lee  
 David Leopold  
 Wendy Levitz  
 Bob Lewis  
 Dorothy Lewis  
 Priscilla Life  
 Natalie Lindsay  
 Pat Litchhult  
 Barbara Lo  
 Edgar Lo  
 Robert M. Long  
 Jo Ann Lordahl  
 Evan Louis  
 Charles Lowry  
 Alex Luka  
 Sondra Lund  
 Gabrielle Lyons  
 Oun Mabes  
 Phyllis MacDougall  
 Sandy MacDougall  
 Marjorie MacKay  
 Doug Mackinnon  
 Carolyn Macmillan  
 Kathy Maddox  
 Elizabeth "Libby"  
 Mahaffey  
 Judy Mahon  
 Melvine Manuez  
 Alison Markiaiez  
 Carol Marsh  
 Joyce Masla  
 Rae Matthews  
 Lauren May  
 Suzy May  
 Anne Mayamodo  
 Kathy Mayer  
 Donna McCalla  
 Lynn McCallum  
 Ivory McClintak  
 David McCarthy  
 Nancy McCarthy

Marty McCloud  
 Amy McDavid  
 Bob McGinty  
 Margaret McGinty  
 Marie McKenzie  
 Perry McLain  
 Vickie McLain  
 Maria Mejia  
 Nancy Merrill  
 Matt Milbrand  
 Frances Millan  
 Garth Millan  
 Al Moe  
 Cathy Moe  
 Edie Moe  
 Marilyn Mohen  
 Dawn Mones  
 Ruth Montabland  
 Patti Moore  
 Paul Muhlbauer  
 Robin Muhlbauer  
 Katy Muzik  
 Tom Myers  
 Carol Nance  
 Daphne Nanga  
 Kamai Napaa  
 Barbara Neal  
 Tom Neal  
 Peter Nelousoroff  
 Drea Nelson  
 Canua Nelson  
 Karen Newton  
 Mona Nicholas  
 Steve Nishimura  
 Iris Noltine  
 Christina Nonez  
 Mary Ann Nordwall  
 Helen Norton  
 Nina Norton  
 Walter Norton  
 Cristina Nunez  
 Ben Nyberg  
 Robert Nyvall  
 Sandra Nyvall  
 Gina Odegaard

Noreen Ohai-Daniels  
 Michael Olores  
 Rodney Oppniecht  
 Noelani Ornellas  
 Joyce Packard  
 Jeanne Palmer  
 Patti Pantone  
 Bruce Parsil  
 Christy Taylor Parsil  
 Jan Peace  
 Marie Petro  
 Sarah Piano  
 Pierre Plotkins  
 Ilka Priest  
 Margaret Rangel  
 Simon Rangel  
 Maureen Reyes  
 Sherrie Rheingans  
 Les Rice  
 Mary Rice  
 Kaila Ritchie  
 Lynette Rita  
 Brennan Rivera  
 Nancy Roland  
 Mary Rose  
 Diane Rosenberg  
 Ruth Rosenblatt  
 Alan Ross  
 Linda Ross  
 Kira Rowan  
 Jennifer Roy  
 Luisa Rueda  
 Dana Ryson  
 Candy Sacher  
 Tina Sakamoto  
 Christina Salvador  
 Yvette Samson  
 Crisina Sanchez  
 Carl Sanduist  
 Atshushi Sauada  
 Toni Saul  
 Selma Sauve  
 Joanne Sava  
 Atsushi Sawada  
 Hanna Sayed

Carol Scarrow  
 Karen Schlather  
 Leslie Schlather  
 Paul Schlather  
 Mike Schlitz  
 Jane Schmitt  
 Terry Schnitzer  
 Peggy Scholl  
 Jan Seger  
 Susan Shapiro  
 Emma Sharrar  
 Kathy Sheffield  
 Nicole Shores  
 Sima Siegel  
 Peter Siegel  
 Ana Silva  
 Monica Silva  
 Ron Simon  
 Rose Simon  
 Peter Sinenci  
 Victor Sinenci  
 Bill Slaughter  
 Rain Slaughter  
 Cynthia Smith  
 Grecia Solis  
 Phyllis Somers  
 Peter Somers  
 Rose Souza  
 Linda Spade  
 Julie Spielman  
 Jim Sprague  
 Jo Steciuk  
 Elizabeth Steiner  
 Carrie Stine  
 Warren Stine  
 Margie Stock  
 Mary Stone  
 Cherie Stott  
 Lucy Strasburg  
 Marianne Sullivan  
 Connie Swyers  
 Tess Tarling  
 Shana Taylor  
 Ken Thatcher  
 Kula Thaxton

Dave Thompson  
 Bonita Thornsby  
 Casey Tillson  
 Tom Timmons  
 Michelle Trepte  
 Delores VanHartten  
 Gaetano Vata  
 Barry Villiarimo  
 Leslie Von Brimer  
 Lillian Wadahara  
 Donna Walker  
 Stephen Walker  
 Don Walters  
 Bonnie Wangberg  
 Norm Watsek  
 Tamara Watsek  
 Rich Waxman  
 Diane Weber  
 Terry Weber  
 Dayna Wheatley  
 Richard Wheelock  
 Betty White  
 Frank Whitman  
 Randy Nawaa  
 Wichman  
 Donna Wilcox  
 Jack Williams  
 Denese Wojcik  
 Robert Wolaver  
 Marilyn Woodeer  
 Kanoe Woodward  
 Diane Worthington  
 Alex Wright  
 Helen Yahner  
 Ed Yamada  
 Georgene Yamada  
 Phyllis Yount  
 Bigelow Zachary  
 Barb Zins  
 Mike Zins

A close-up photograph of a plant with green and reddish leaves against a black background. The leaves are arranged in clusters, with some showing a distinct reddish hue. The lighting highlights the texture and veins of the leaves.

# How You Can Make A Difference...

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BY SUPPORTING THE NATIONAL TROPICAL BOTANICAL GARDEN

There are several ways in which you can help the National Tropical Botanical Garden flourish:

A donation to the **Annual Fund** provides essential support for all of NTBG's programs in Conservation, Science, Living Collections and Education. To make a contribution, please contact Drina Simons, Assistant Director of Development, at 808-332-7324 ext. 235 or [dsimons@ntbg.org](mailto:dsimons@ntbg.org)

Double or triple your support with a **Corporate Matching Gift**. Many businesses provide matching funds to augment your support. Please contact your company's human resources department.

Companies of all sizes can join our **Corporate Partnership Program**. NTBG's Corporate Partners enjoy a wide range of benefits to their employees, clients, and executive team. Benefits include special tours and presentations, discounts on facility rentals and memberships, group volunteer opportunities, and more. For more information, please call Drina Simons, Assistant Director of Development, at 808-332-7324 ext. 235 or [dsimons@ntbg.org](mailto:dsimons@ntbg.org)

Become a **Member** and enjoy benefits that include free admission for self-guided tours, invitations to events, lectures, and workshops, discounts at Garden shops, and our quarterly membership bulletin. Please contact Suzy May, Membership Manager, at 808-332-7324 ext. 238 or [members@ntbg.org](mailto:members@ntbg.org)

Provide **grant funding**. If you are affiliated with a grant-making foundation and find our Garden and our work compelling, contact Vera Benedek, Grant Writer, at 808-332-7324, ext. 252 or [vbenedek@ntbg.org](mailto:vbenedek@ntbg.org)

Join NTBG's **Council of Fellows**. Annual membership dues begin at the \$1,500 level and continue up to the \$20,000 Chairman's Circle level. All funds thus raised are dedicated to Garden operations. Many Fellows become involved with the Garden's special programs and projects. Fellows are invited to participate in the bi-annual Board of Trustees meetings, one held in Hawai'i in the spring and the other in the fall on the mainland. Also, Fellows have the opportunity to participate in specially arranged international travel programs that include visits to private and public gardens. For more information, contact Kathleen Hong, Director of Philanthropy, at 808-346-1093 or [khong@ntbg.org](mailto:khong@ntbg.org)

Make a **Planned Gift** to the Garden through your will, a charitable gift annuity, a gift of life insurance, a pooled income fund, or a charitable trust. A planned gift to NTBG helps to ensure the future of the gardens and programs, and may further your financial goals. To discuss a planned gift, contact NTBG's General Counsel Michael J. Shea, Esq at 202-383-0161 or [mike.shea@sutherland.com](mailto:mike.shea@sutherland.com)

**Volunteer** your time to the Garden. By becoming a volunteer you will be making a substantial contribution to preservation and knowledge of tropical plants and ecosystems.

For a detailed list of volunteer opportunities, visit <http://ntbg.org/volunteer>

**Becoming a Volunteer is easy!**

Simply contact one of our locations or email our central office at [volunteer@ntbg.org](mailto:volunteer@ntbg.org). Staff will match your interests, abilities, and availability with the Garden's current volunteer needs.

## NATIONAL TROPICAL BOTANICAL GARDEN

# Staff 2012

### Administration, Finance, Development, Human Resources, Publications

Vera Benedek	Grantwriter	Janet L. Mayfield	Chief Operating Officer and Chief Financial Officer
Chelsey Cabral	Administrative Assistant - Development	Lee Paul	Volunteer Coordinator
Francine Dizol	Controller	Judy Roberts	Accounts Payable Clerk
Wing Fong	Exhibit and Graphic Design Manager	Shantell San Agustin	Human Resources Specialist
Matthew Goodale	IT Manager	Drina Simons	Assistant Director of Development/Annual Giving
Kathleen Hong	Director of Philanthropy	Sandra Tedder	Meeting Planner
Momi Kelekoma	Development Services Administrator	Ashley Ulanday	Administrative Clerk
Janet L. Leopold	Director of Communications	Charles R. Wichman, Jr.	Chief Executive Officer and Director
Jon Letman	Editorial and Production Assistant	Johnalynn H.K. Wichman	Executive Assistant to the CEO and Director
Suzy May	Membership Manager		

### Science, Conservation, Living Collections and Horticulture, Education

Cynthia Adams	Administration Assistant - Conservation and Living Collections and Horticulture	Sondra Lund	Research Technician - Herbarium Mounting, Temporary
Jesse Adams	Slide Data Entry Technician	Rae Matthews	Administrative Assistant - Science
Teruko Bierly	Research Technician - Herbarium Mounting, Temporary	Chiemi Nagle	Biological Field technician
David Burney	Director of Conservation	Carol Nance	Research Technician - Data Entry
Margaret Clark	Seed Bank Manager	Barbara Neal	Plant Records
Michael DeMotta	Assistant Director of Living Collections and Horticulture	Steven P. Perlman	Research Biologist
Merlin Edmonds	Restoration Collections Assistant	Marion A. Schmidt, Jr.	Conservation Technician
Timothy Flynn	Herbarium Collections Manager	Jason Silva	Integrated Pest Management Technician
Richard E. Hanna	Librarian	Natalia Tangalin	Field Botanist
Elizabeth H. Kali	Conservation Technician	P. Barry Tomlinson	Eleanor Evans Crum Distinguished Professor of Tropical Botany
Bryson Long	Conservation Technician	Ashly Trask	Nursery Manager
Lorna L.C. Lopes	Administration Assistant - Education	Kava Vale	Plant Records Manager
David H. Lorence	Director of Science	Warren Wagner	McBryde Chair of Hawaiian Plant Studies
Matthew Lucas	GIS Coordinator	Kenneth Wood	Research Biologist
		Mahealani Yamashita	Youth Education Coordinator

### Breadfruit Institute

Ian Cole	Collections Manager/Curator
Diane Ragone	Director of the Breadfruit Institute
Angela Tillson	Program Manager

### McBryde Garden, Allerton Garden, Southshore Visitors Center Garden, Physical Facilities

George Acob	Foreman - Allerton Garden	Rodney Jiminez	Mason
Stanley N. Alquiza	BRC Facility Manager	June Kaaumoana	Gardener - McBryde Garden
Irenio Barba	Gardener - Allerton Garden	Howard M. Kanahale	Lead Gardener - Allerton Garden
Mark J. Chaffee	Lead Gardener - McBryde Garden	Lefty Kanahale	Security
Vincent DeCosta	Security	Richard Kanahale	Lead Gardener - McBryde Garden
Michael Freitas, Jr.	Gardener - Allerton Garden	Shawn Kanahale	Gardener - Allerton Garden
Julio Ganotisi	Lead Gardener - McBryde Garden	Emmitt J. Linton	Facilities Tradesman
William K. Hilyard	Lead Gardener - McBryde Garden	Michael Montapert	Gardener - Allerton Garden





Ellsworth C. Numazawa Gardener - Allerton Garden  
 Stephen Palama Security  
 Joseph Pimental Chief Mechanic  
 Randolph D. Sagucio Facilities Tradesman  
 Leon Schmidt Gardener - McBryde Garden  
 James K. Shintani Lead Gardener (Mower Operator) -  
 McBryde Garden

Jeffery Shintani  
 Scott E. Sloan  
  
 Clarence H. Souza  
 Franklin Tugade  
 Fumi Waugh

Gardener - Allerton Garden  
 Assistant Director of McBryde Garden and  
 Allerton Garden  
 Facilities Tradesman  
 Gardener - Visitors Center Garden  
 Lead Gardener - McBryde Garden

**Southshore Visitor Program and Gift Shop**

Ryan Buhk Tour Guide  
 David Dickinson Tour Guide  
 Frank Fellhauer Tour Guide  
 Emree Gonzales Sales Associate  
 Jerine Kaluna Assistant Gift Shop Manager  
 Amy LaRue Sales Associate/Clerical  
 Walter McCoy Assistant Director of Marketing  
 David G. Mona Tour Guide  
 John Myers Tour Guide

Robert Nishek  
 John Sadler  
 Beth Saxon  
 Gwendolyn Silva  
 Karen Silva  
 Philip Silva  
 Peggy Sowl  
 Martin Steinhaus

Tour Guide  
 Tour Guide  
 Tour Guide  
 Sales Associate  
 Sales Associate  
 Tour Guide  
 Tour Program Manager  
 Tour Guide

**Limahuli Garden and Preserve**

Jennifer Allen Tour Coordinator  
 Katie Champlin Operations Manager  
 Aloysius K. Chandler Grounds Technician  
 Rachel Correa Visitor Program/Office Manager  
 Merlin Edmonds Conservation Technician  
 Lani Forster Visitor Program Assistant  
 Emory Griffin-Noyes Restoration Project Manager  
 Noah Kaaumoana-TeXiera Grounds Technician  
 Kevin Kaleiohi Foreman  
 Tiana Kamen Education and Agriculture Specialist

Mele Khalsa  
 Nancy J. Merrill  
 Lee Paul  
 Aloysius Puulei-Chandler  
 Nicole Shores  
 Emily Stevens  
 Britany Sung  
 John Carl Watson  
 Kawika Winter

Visitor Program Assistant  
 Visitor Program Assistant  
 Visitor Program Assistant  
 Conservation Technician  
 Living Collections Technician  
 Visitor Program Associate  
 Conservation Technician  
 Restoration Coordinator  
 Director of Limahuli Garden and Preserve

**Kahanu Garden**

Peter G. Gaffney Acting Director of Kahanu Garden  
 Lyana Bednorz Visitor Program Sales Associate  
 Kamana M. Helekahi Foreman  
 Earl Kuailani Gardener

Yuko Shinoda  
 Danelle Smith  
 Sharol Smith

Living Collections Assistant  
 Visitor Program Associate  
 Visitor Program Associate

**The Kampong**

David Blake Gardener  
 Michael Bonnen Facilities Manager  
 Zephaniah Campbell Gardener  
 Annemarie Furlong Executive Office Administrator  
 David Jones Curator of Living Collections  
 Iliana Leon Membership Coordinator

Ann Parsons  
 Dunstan U. Payne  
 Loretta B. Russell  
 Sandra Tedder  
 Larry M. Schokman

Director of The Kampong  
 Lead Gardener  
 Housekeeper  
 Development Officer/NTBG Meeting Planner  
 Kampong Director Emeritus



## THE MISSION

of the National Tropical Botanical Garden is to enrich life through discovery, scientific research, conservation, and education by perpetuating the survival of plants, ecosystems, and cultural knowledge of tropical regions.

NTBG is the only botanical garden chartered by the United States Congress. Established in 1964, the Garden is dedicated to the preservation and survival of tropical plants, emphasizing rare and endangered species.

NTBG is a 501 (c) (3) nonprofit corporation. We are not operated by the federal government and rely on the much-appreciated support of members and donors to carry out our mission.



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Front cover, pages 7, 22, 28, 31, 33, 34, 35, 40, 48, 49, 50, 51, 52

Bamboo Grove, Allerton Garden, Kaua'i

