



HAWAI'I
Forest Institute

2010 ANNUAL REPORT



January 2011

About the Hawai'i Forest Institute



The Hawai'i Forest Industry Association (HFIA) formed the Hawai'i Forest Institute (HFI), a 501 (c) (3) nonprofit organization, in 2003. The purpose of the Institute is to promote the health and productivity of Hawai'i forests through educational programs and scientific research.

HFI held four Board meetings in 2010. HFIA Directors approved the following slate of HFI Directors at the annual meeting: J.B. Friday, Travis Idol, Robert Osgood, Mike Robinson, Peter D. Simmons, Aileen Yeh, and William Yuen. HFI approved the following slate of HFI Officers: Travis Idol, President; Robert Osgood, Vice President; Peter Simmons, Treasurer; and William Yuen, Secretary. William Yuen replaced Peter Simmons as Treasurer in November 2010. The Hawai'i Forest Journal Editorial Review Committee members are Chair Travis Idol, J.B. Friday, Judy Hancock, and Carolyn Stewart. The Grants Committee members are Travis Idol, Robert Osgood, Mike Robinson, Aileen Yeh, and William Yuen.

Hawai'i Forest Institute Projects & Programs

Forestry Forums

With a grant from the A& B Foundation, HFI conducted four forestry forums in 2010, one on each of the following Islands: Hawai'i, O'ahu, Kaua'i, and Maui.

Hawai'i Island Forum

The Hawai'i Island Forum was held on February 25, 2010 at the Kalaemanō Cultural Center in North Kona. This informal talk story, titled "*Mauka-Makai: Ka'ūpūlehu Connections Not Forgotten*" addressed ahupua'a perspectives connecting land and people mauka-makai, through a cultural ecology partnership. A slide presentation by cultural educators Ku'ulei Keakealani, Yvonne Yarber Carter, and Keoki Apokolani Carter, and Site Manager Wilds Pihanui Brawner covered vital components in the perpetuation of a dynamic Ka'ūpūlehu dry-land forest and coastal ecosystem including restoration, science, and cultural history.

O'ahu Forum

The O'ahu Forum, moderated by HFI President Dr. Travis Idol, was held on March 26, 2010 at the Honolulu Academy Arts Center. The presentation, titled *Koa: Standing the Test of Time*, presented information on the history and future of koa forests as one of Hawaii's most ecologically, culturally, and economically important tree species. The forum generated renewed interest in the importance of trees and forests to the economic, ecological, and social well-being of Hawai'i. Keynote Speaker Dr. Paul Scowcroft gave a compelling presentation on koa as an actively managed native forest species and provided a broader perspective highlighting the importance of continuing efforts at conservation, restoration, and sustainable management.

Kaua'i Forum

The Kaua'i Forum, which was moderated by Stephen E.S. Smith, was held on April 9, 2010 at Kukui'ula Village, followed by lunch and a field trip of Kukui'ula's grounds. The forum, titled *The Timelessness of Hawaii's Forests* presented an overview of Kauai's forests and ongoing projects--from wilderness to urban forestry.

Kaua'i Forum topics and speakers included:

- ❖ Kukui'ula Landscape Introduction: Roger Peckenpaugh, Landscape Project Manager
- ❖ Overview of Kauai's Forests: Stephen E.S. Smith, Forestry Management Consultants HI

- ❖ The Nature Conservancy's (TNC) Recent Accomplishments on Kaua'i: Alan Rietow, TNC
- ❖ Overview of Projects at the National Tropical Botanical Garden (NTBG): Dr. David Burney, NTBG

Roger Peckenpaugh guided the field trip, which provided a look into Kukui'ula's landscape vision for the "Living Garden" by exploring plants, pathways and parks and opportunities associated with urban forestry and community landscapes.

Maui Forum

The Maui Forum was held on May 8, 2010 at the Hawaiian Commercial & Sugar Company (HC&S) Pu'unene factory. The *Maui Forestry Forum*, moderated by Nick Dudley, explored the interconnections of Maui's forests and watersheds, combined with a special field and factory tour of HC&S, Maui's largest agricultural operation. Four speakers from Maui's natural resource community presented a broad range of topics and introduced attendees to an overview of Maui's forests, watersheds and ongoing projects--from wilderness to urban forestry and agriculture. Maui Forum topics and speakers included:

- ❖ Reforestation of Polipoli: Lance De Silva, Protection Forester, DOFAW
- ❖ East Maui Irrigation Co.: Mark Vaught, East Maui Irrigation Co.
- ❖ Haleakala Ranch: Scott Meidel, Haleakala Ranch Vice President and Land Manager
- ❖ Hawai'i Agriculture Research Center (HARC): Nick Dudley, HARC Forestry Program Manager

Following the Forum, HC&S conducted a tour, which included HC&S's history and plans for the future; processes of growing and harvesting sugarcane; a visit to a Maui skimming well; power production, including hydroelectricity; and a demonstration of the state-of-the-art equipment in use.



Mark Vaught presents a talk about East Maui Irrigation Co.

Hawai'i Forest Journal

In December 2010, HFI produced the fifth issue of the Hawai'i Forest Journal. The articles in this issue cover a broad range of forestry-related topics, including understanding the impacts of non-native species on wildland fires, innovative techniques in forest and range management, the development of improved varieties of multipurpose trees, and the application of advanced satellite remote sensing to describing and understanding forest structure and function. This issue's sponsors were Will J. Reid Foundation, Forest Solutions Inc., and HFIA. HFIA had 40 copies printed and distributed an electronic copy of the publication to 465 individuals and organizations including HFIA members, legislators, and other private and public partners. The Journal is also posted on the web.

***Ka Pilina Poina 'Ole* "Connections Not Forgotten"**

The *Ka Pilina Poina 'Ole* "Connections Not Forgotten" project involves sustaining fragile endangered dry forest ecosystems and sharing their unique historical, cultural, restoration, and scientific aspects to benefit Hawai'i residents and visitors. The project connects three culturally significant destinations in North Kona; Ka'ūpūlehu Dryland Forest Preserve, Kalaemanō Cultural Center and La'i'Ōpua Preserves. Two audio story centers, interpretive materials, and cur-



Interpretive panel on the new audio story center at Kalaemanō Cultural Center.

riculum were developed along with a stewardship outreach program linking the three cultural heritage sites. The interpretive audio story centers features live voices from oral histories, bringing connections to the past alive. The project gives residents and visitors a unique opportunity to experience and understand the traditional Hawaiian use of ahupua'a lands, the significance of place names, and the importance of the interconnection between preservation of the mauka and makai environs.

This year's program was supported by the U.S. Department of Education's "Education through Cultural & Historical Organizations" (ECHO) grant, Arthur Lawrence Mullaly Fund and Kukio Community Fund of the Hawai'i Community Foundation, Atherton Family Foundation, and Bill Healy Foundation.

Native Hawaiian Seed Bank Cooperative

The Native Hawaiian Seed Bank Cooperative entails the collection and storage of native Hawaiian seeds that grow in native forests on Hawai'i Island. Seeds are being collected, deposited and withdrawn for fire mitigation, restoration projects, research, and/or establishing living fire breaks.

The need for banking seed is critical as native habitat loss due to wildfires, ungulate grazing, and development continues to altar the landscape at an alarming rate. The precious species of Hawaii's dryland forest, mesic, and wet forest ecosystems need to be protected in many ways. Saving seed is one way; it allows for mitigation of habitat loss by seed broadcasting, restoration, creating living fuel breaks, and conducting research. All accessions are made up of species from Hawai'i Island, with a focus on the dryland forest regions. In cooperation with local Federal and State agencies, the seed bank collects and accepts seed from rare, threatened, and endangered species.

Project Coordinator Jill Wagner's focus for the Cooperative in 2010 was developing partnerships and obtaining collecting permits. Seed bank partners include:

- ❖ Kaloko-Honokohau National Park in Kona, which is a coastal dryland forest that was overtaken by keawe, however many native species have survived and are thriving in their coastal home. There are a number of species represented including ko'oko'olau, pua kala, alahe'e, naio, and aweoweo. Collecting permits were obtained from the National Park Service.
- ❖ Ka'ūpūlehu Dryland Forest Preserve is one of the most important dryland forest sites on Hawai'i Island. It is a beautiful remnant dryland forest and an on-going restoration site, therefore the trees are mixed in maturity. Seed is abundant at this site, making it a critical site for collection. Permits were obtained and deposits were made into the seed bank.



- ❖ The Hawai'i Wildfire Management Organization is planning to conduct a low elevation trial of broadcasting native seed. The seed bank will provide aali'i, awikiwiki, maia pilo and aweoweo.
- ❖ The US Forest Service will be utilizing seed for roadways in recently burned areas on Mauna Kea. The seed bank provided mamane, aali'i, aweoweo, Bidens, and ilima seed. The Forest Service will also participate by collecting and donating seed.
- ❖ Forest Solutions will be donating koa seed and expressed an interest in storage and seed cleaning services.
- ❖ The Mauna Kea Restoration Project is interested in seed cleaning services and storage.
- ❖ Kukio Resort is a new partner and has donated seed to the seed bank in 2010.
- ❖ Keauhou Resort has expressed an interest in obtaining seed for their projects.
- ❖ Waikaloa Dryland Forest Preserve is a new partner.
- ❖ Four Seasons Resort staff members are participating in a volunteer program to clean seed.
- ❖ Amy B.H. Greenwell Ethnobotanical Garden provides an advisory role.
- ❖ Lyon Arboretum Seed Conservation Laboratory, a long-term storage facility in Honolulu, is storing rare seed shared by the seed bank. Facility Director Alvin Yoshinaga is providing advise on seed collection and storage protocols.
- ❖ The Nature Conservancy has used the seed bank for short term storage.
- ❖ Kona community individuals help cleaning seed and collecting as needed

Jill received a RC&D grant for seed cleaning equipment this year. In April, she represented the Seed Bank Cooperative at the Hua Ka Hua Seed Symposium in Kona. Jill is creating a menu of services including seed collecting, cleaning, storage, and seed for sale. Each of these services will have a reasonable fee, which will help the seed bank sustain itself. The Seed Bank Cooperative was funded by the West Hawai'i Wildfire Management Organization in 2008. An informative webpage has been created on HFI website.

Website

The HFI website provides a wealth of information about HFI, its community partners, and conservation projects statewide. Through the website, HFI has communicated its message of promoting awareness of the intrinsic value of Hawaii's forests to the local and international community.

Other Projects and Activities

Kapāpala Forest: HFI is assisting HFIA seek funding to develop a plan to bring youth to the Kapāpala Forest for cultural and environmental education.

Discovery Forest: HFI is assisting HFIA plan and seek funding and community support for a forest demonstration project that was initiated in Hilo this year.



HFI website photos by J.B. Friday.

2010 Grants Awarded

Funding Source	Project	Amount
Atherton Family Foundation	<i>Ka Pilina Poina 'Ole</i> "Connection Not Forgotten"	\$ 10,000
HCF Kukio Community Fund	<i>Ka Pilina Poina 'Ole</i> "Connection Not Forgotten"	\$ 5,000
HCF Arthur Lawrence Mullaly Fund	<i>Ka Pilina Poina 'Ole</i> "Connection Not Forgotten"	\$ 8,000
HCF West Hawai'i Fund	<i>Ka Pilina Poina 'Ole</i> "Connection Not Forgotten"	\$ 9,500
Bishop Museum DOE (ECHO)	<i>Ka Pilina Poina 'Ole</i> "Connection Not Forgotten"	\$ 41,000
Change Happens Foundation	Discovery Forest	\$ 5,000
	Total	\$ 78,500

Ka Pilina Poina 'Ole: Restoration and education at Ka'ūpūlehu, Kalaemanō, and La'i'Ōpua Dryland Forests.

Hawai'i Forest Journal Contributors

Ma'o hau hele (\$1500 +)

Hawai'i Forest Industry Association
Will J. Reid Foundation

Koki'o ke'oke'o (up to \$750)

Forest Solutions, Inc.



Hawai'i Island's Hāmākua Coast.

Financial Report

Balance Sheet As of December 31, 2010

Profit and Loss January through December 2010

ASSETS	
Current Assets	
Checking/Savings	
Savings	562
CU Hawaii-Checking	<u>27,400</u>
Total Checking/Savings	<u>27,962</u>
Total Current Assets	<u>27,962</u>
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TOTAL ASSETS	<u>27,962</u>
LIABILITIES & EQUITY	
Equity	
Opening Bal Equity	2,152
Retained Earnings	22,299
Net Income	<u>3,511</u>
Total Equity	<u>27,962</u>
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TOTAL LIABILITIES & EQUITY	<u>27,962</u>

ORDINARY INCOME/EXPENSE	
INCOME	
Donations	
Hawaii Forest Journal	200
Donations - Other	<u>1,709</u>
Total Donations	1,909
Grants	
Change Happens Foundation	5,000
Atherton Family Foundation	10,000
Hawaii Community Foundation	9,500
Bishop Museum	28,502
Kukio Community Fund	5,000
West Hawaii Fund	<u>8,000</u>
Total Grants	<u>66,002</u>
TOTAL INCOME	<u>67,910</u>
EXPENSE	
Professional Services-Taxes	320
Grant Expense-Dryland Forest	51,504
Grant Expense-Seed Bank	2,200
Grant Expense-Discovery Forest	2,500
Insurance	759
HFIA Grant Administration	<u>7,117</u>
TOTAL EXPENSE	<u>64,399</u>
NET ORDINARY INCOME	<u>3,511</u>
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NET INCOME	<u>3,511</u>



Photos by J.B. Friday.

Mahalo to our Partners and Contributors

A&B Foundation
Agro Resources Inc.
Aileen Yeh
Arthur Lawrence Mullaly Fund of the Hawai'i Community Foundation
Atherton Family Foundation
Bello's Millwork, Inc.—Eric and Mary Bello
Bill Healy Foundation
Bishop Museum
Change Happens Foundation
Clear Image-Yvonne Yarber Carter
Deborah Griffiths
Department of Hawaiian Home Lands
East Hawai'i Wildfire Management Organization
Forest Solutions, Inc.
Future Forests Nursery, LLC
Group 70 Foundation
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William Yuen
Will J. Reid Foundation

Board of Directors

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Cover photo: Flowers of ohia ha or mountain apple (*Syzygium malaccense*) (cultivated). Photo by J. B. Friday.