

An Arboretum for Hawai'i

The D.T. Fleming Arboretum at Pu'u Mahoe is Hawai'i's oldest and largest arboretum focused on preserving native Hawaiian plants. Planting the arboretum began in 1952 inside the Pu'u Mahoe cinder cone on Maui's southern slopes of Ulupalakua, with the ambitious goal of David Thomas Fleming to preserve the rarest of native Hawaiian plant species from the rich but dying forest of Auwahi.

In 2002, the nonprofit Friends of the D.T. Fleming Arboretum at Pu'u Mahoe [FOFA] was created to help carry on the original work of David Thomas Fleming. The Arboretum needed guidance to be restored as a premier conservation resource for Maui and of all Hawai'i, to provide a strong seed bank for the preservation of Maui's dry land forest plant species, and to support the emergent reforestation efforts working to restore Maui's watershed and native habitat on the southern slopes of Haleakala.

Friends of the D.T. Fleming Arboretum (FOFA), has made outstanding progress. Today, the D.T. Fleming Arboretum at Pu'u Mahoe is Maui's largest living collection of native plant species, an active statewide seed bank and Maui County's Dry land Rare Plant Recovery Reserve protecting and perpetuating rare dry land species for the restoration of native habitat and dry land watershed.

FOFA encourages community involvement by sponsoring public outreach programs as propagation workshops, volunteer training & field work, Arboretum tours and public presentations. Special events at the Arboretum for community, schools and youth groups are held throughout the year.

From a "museum of old trees" to a viable native seed resource and Plant Recovery Reserve, to a valuable educational site for youth and community groups, the Fleming Arboretum continues to progress as a leading conservation and education resource for Hawai'i.

Thank you for your continued support making our work possible.



Photo by Bob Bangerter
The rare native mint
Phyllostegia haliakalae
flowers in the Fleming
Arboretum for a bountiful
seed harvest in 2010.
In evolution of the native
mint, adapting to Hawai'i's
paradise, this species lost its
mint aroma, no longer
needing this natural defense
against grazing animals and
insects.

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2010 Preservation Highlights

Fleming Arboretum becomes a Recovery Reserve for three new rare and endangered native plant species:



Billy and Nancy Ervine of Aloha Honu Nursery volunteers professional delivery of three of the only five surviving *Kokia cookei* individuals.



Hank Oppenheimer of the State PEPP [Plant Extinction Prevention Program] delivers rare native mint *Phyllostegia haliakalae* and *Melicope ascendens* for out planting into the Arboretum.



Susi Mastroianni, landscape designer and professional arborist, harvests Maui's Lokelani Rose for propagation on a MALP volunteer work day. The Arboretum now includes a section of plants from Old Hawai'i.



Anna Palomino of the Olin-da Rare Plant Recovery Facility works to propagate the Fleming Arboretum's rarest seeds.



Photo by Bob Bangerter

Art Medeiros shows off an Alani seedling glowing with health in the Auwahi Forest. Thirty five seedlings exist from propagation of the only seed bearing Alani in existence growing at the Fleming Arboretum.



Loulu



'Ala'a



Alani



'Ohe



Podocarpus

Five species/ seven trees at the Fleming Arboretum are elected to the Maui County's Exceptional Tree list in 2010.

Photos by Bob Bangerter



Carden Academy 4th graders go to Pu'u Mahoe for their end of the school year field trip. Students are encouraged to take home A'ali'i to plant for lei.



Early 1900s- Man harvests Silverword for lei and decoration to the "brink of extinction". Today, the Silverword thrives protected on Haleakala, Maui and Mauna Kea on the Big Island- a story of successful preservation.

*Cover photo by Duane Sparkman
The Udara blackburnii is one of the two only butterflies native to Hawai'i.*

2010 Project Highlights



Volunteer Jean Gagnon removes old fence for Arboretum expansion.



South Pacific Lumber delivers eucalyptus for trail upgrade.



Water storage at workshop assures program success.



2,000 feet of water pipe & Kiawe wood railings are ready for installation.



Clarence Tavares [top photo on right] and Sonny Vic Paving crew pave road and entrance gate to Pu'u Mahoe.



Shed is complete with 2011 plans for an 800 square foot covered area workshop extending off front of building.



2010 –new plantings of Holei, the native miniature Plumeria, assures a strong seed resource. [flower shown in actual size]



Tai Domen of Alihilani Arborcare manages Arboretum maintenance and pruning.



Vince Souki makes time after night shift at Maui Memorial Hospital for Arboretum projects.



Young Talent-Waldorf 5th grader Jaxon Naiditch donates photo of HI State Flower to web.

A four year grant with the USDA-NRCS makes possible monumental accomplishments. In 2009 invasive trees are cleared and the entire 17 acres of Pu'u Mahoe is hog fenced. In 2010 –widening the main access road, wood-chip mulching and fertilizing the entire Arboretum is achieved. In 2011, an 800 foot double row windbreak will be planted for Arboretum expansion.



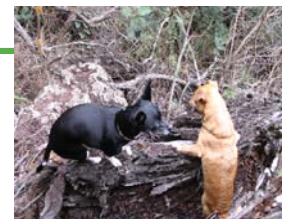
“Four wheel drive wheelbarrow” hauls chips to upper trails.



John Marshall–AmeriCorps volunteer applies mulch over chicken manure-a slow release nitrogen fertilizer.

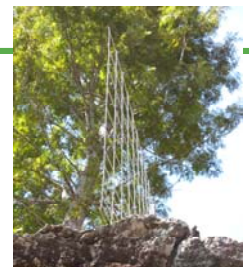


USDA-NRCS Renae Ganske Cerizo and Elskin Allan survey for road widening and drainage.



2009-Ope [on left] and Maggie question terrain for new fence.

2010- SFE Inc. completes fence project. Photos show solution to fencing over a cliff.



A vision for the future: To restore Pu'u Mahoe back to a native forest “a vignette of primitive Hawai'i”.

2010 Program Highlights



Karin Rohr [in green] enjoys a special day with European friends. FOFA hosts special events for community and school groups on request.



New video "Pu'u Mahoe Welcomes" shares educational opportunities at Pu'u Mahoe, highlighted by song and dance by 8th graders of Maui Waena's Hawaiiana Club, led by Kumu Marie Biga [on right].

Photo by Tamara Mckay



D.T. Fleming Hawaiian artifact collection enhances educational programs sharing Hawai'i's history and culture.

2010 Fleming Arboretum Photo Awards To students of Kamehameha Schools Maui



[from left] Photos by Rachel Bega, Tyler Akaka, Kali Sanico, and Taylor Harris



Arboretum upgrades from trash bag raincoats to umbrellas for rainy days. Fleming cousin Kathy Frey [in beige sweater] and family visit "grandpa's arboretum". This was Kathy's first visit since the 1989 Family Reunion celebrating Fleming's 100 years in Hawai'i.



Wildlife biologist Dr. Fern Duvall gives a talk on the importance of Hawai'i's native plants to 45 participants celebrating the Jewish New Year in January... Followed by a ceremonial planting of Maua and Pilo...



And the children helped by watering.



Photo by Tamara Mckay
Students of Maui Waena enjoy friendships exploring nature on a field trip to Pu'u Mahoe.



Students of Kamehameha School arrive in a yellow school bus for class at the Fleming Arboretum. An afternoon cloud joins a group photo with instructor Angie Abe [bottom row-on left].



Kiana Medeiros, 12th grade, perfects composition for photo of 'Ala'a seed.

From biology to photography, a tour of the D.T. Fleming Arboretum offers a view of the past and a window to the future.

2010 Volunteer Highlights- Please see more Volunteers News on our website



Hisco Inc., a Maui irrigation supply company, donates a weekend perfecting irrigation.



Terry Nutt, certified arborist and MALP volunteer, prunes the Ala'a- a new "Maui County Exceptional Tree".



Devoted Peacock Patrol Volunteers await command [from left: Maggie, Rocky, a new recruit in training, and Scruffy].



Volunteers Elena Newhouse [on left] and Ariel Careira attract visitors to Fleming Arboretum information booth.





Becky Lau serves traditional desert- "Purple Cows" to Native Hawaiian Plant Society volunteers during their annual volunteer workday.



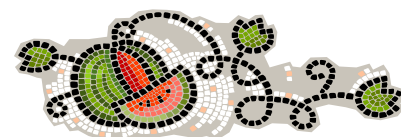
Leeward Haleakala Watershed Restoration Partnership crew donate a full day of hard work fertilizing and mulching trees.

2010 Fleming Arboretum Volunteer of the Year Award

Irene & Elena Newhouse

Irene [on left] is Secretary for the Native Hawaiian Plant Society and Volunteer Coordinator. Irene & daughter Elena are group organizers and regular volunteers for the Fleming Arboretum.



Watermelon, introduced to Maui by D.T. Fleming in 1920 "to make Maui a better place to live", is a traditional treat served to volunteers [from left: Courtney Humber, Hope Hookai and Scarlet Foss, a Fleming relative].



Waldorf School 5th Graders with their teacher Virginia Fish [on right in red] harvest native seed to propagate and out plant at their school.



Mahalo to all our volunteers

Friends of the D.T. Fleming Arboretum is committed to developing Pu'u Mahoe's unlimited potential to benefit Hawai'i and Hawai'i's people.

Wishing all a Happy New Year! Mahalo for your support, making our success possible.



O'hi'a Lehua by Michelle Ritchie

Friends of D.T. Fleming Arboretum at Pu'u Mahoe
[FOFA]

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Propagation & Distribution*

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