An Arboretum for Hawaii

Created in 2002, the Friends of the Fleming Arboretum (FOFA) supports an Arboretum of botanical, historical and cultural significance, advancing propagation research, public education and plant conservation.

FOFA constantly works to upgrade the health of the Arboretum and increase the populations of its endangered dryland species, making the Arboretum a strong seed source for their preservation.

Currently FOFA provides seed for restoration projects in Auwahi and elsewhere.

The Arboretum hosts Maui’s endangered species, along with the last remaining seed-producing specimen of the highly endangered Maui Alani, making the work of FOFA critical for future generations.

This newsletter reports the 2005 activities of FOFA and commitment to our mission.

Thank you for your support,

Martha Vockrodt-Moran, President

David Thomas Fleming, founder of the D.T. Fleming Arboretum, takes a “tramp” in the West Maui Mountains collecting a pocket full of seeds for the future.
During his years of work for Baldwin Packers Inc. (1911-1950), Fleming introduced new crops to diversify the agriculture "making Maui a better place to live."

**FOFA Board of Directors 2005**


Judy White. Non-profit consultant and educator, currently involved in a new independent school in Kapolei.

Karen Ella Levy. Retired commercial property manager. Former president and co-founder of two non-profits in Seattle area.

Kathleen Platt. Retired emergency medical technician. Founder and past president of Women Helping Women. Currently works as an architectural draftsman.

Ernest H. Rezents. Agricultural Professor Emeritus of U of Hawaii/MCC. Now a registered consulting horticulturist and certified arborist.


Dr. Fern DuVall. Wildlife Biologist, DLNR Division of Forestry and Wildlife, Maui. Responsibilities include invasive species of Maui Nui.


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*Cover Photo: Alani seed photo by Bob Bangster*

In the search for a viable commercial crop, pineapple proved to be the most promising. Fleming transformed the failing Honolulu Ranch cattle and coffee operation into a thriving village and successful pineapple industry, today known as Maui Land & Pine Co.

In 1915, 147 newly planted Cook Pines line the driveway to Makaokoi, commonly known as Pineapple Hill, D.T. Fleming's home. Today, these are the stately pines along the scenic entrance to Kapalua.

**Mission Statement**

The Friends of the D.T. Fleming Arboretum at Pu‘u Mahoe, Inc. (FOFA) exists to sponsor, fund and assist in the protection and preservation of the Fleming Arboretum and its mission to preserve Hawaiian native plants through protection, propagation and distribution.
A Monumental Accomplishment for Hawai... 
...the first outplanting of Alani (Melicope knudsenii) back into the Auwahi forest.

Taking Root (Excerpts from The Maui News May 30, 2005)
By VALERIE MONSON

"ULUPALAKUA - Hawaiian family members long separated from their roots returned home Saturday in an emotional reunion that many thought might never happen.

"Eight Alani seedlings went back to the Auwahi forest, taking their place in the shadow of their only known ancestor living in the wild."

"Until a year ago, there was the very real possibility that contact with the Alani would become a thing of the past. Biologists were aware of only two left - one in the wild at Auwahi on Ulupalakua Ranch and the other in the Arboretum started by Moran's grandfather, the renowned agronomist D.T. Fleming. Even worse, both were ailing and appeared to have lost their capability for producing viable seeds."

A dedicated team "made Saturday's homecoming possible: Makawao arborist Ernie Rezents, who diagnosed the tree's disease and prescribed the cure; Nellie Sugii, a researcher at Lyons Arboretum on Oahu, whose experiments led to germination; and expert growers Anna Palomino, Richard Nakagawa, and Dan and Noah Judson, all of Maui, who produced the eight seedlings.

"Meanwhile, Auwahi, with the permission of ranch executives Pardee and Sumner Erdman, was being readied for its return by tireless biologist Art Medeiros and his crack team of volunteers who have spent the last eight years fencing, weeding, digging, propagating, planting and willing the land back to life. After successfully restoring one 10-acre enclosure, they have fenced off another 20 acres that includes an old lava channel where the last Alani was struggling to survive."

"The feeling of family was in the forest air as the plants were unloaded from four-wheel drive vehicles that traveled as far as they could, and then the plants were carried by hand the rest of the treacherous way across loose rocks and tangles of weeds ...."

"After years on the brink of extinction, the Alani were back where they belong. They were home with the ancestors."
Devoted to the welfare of the people, he believed in home ownership. As manager of Baldwin Packers, he made properties available for sale to workers at low prices. As a County Chairman, he made property ownership possible in Sandhills, Wailuku, referred to by the residents as “Fleming Tract.” His personal project created lots in Pakakalo for working people to own their own home fee-simple. This legacy is still remembered and appreciated today.

Fleming’s work transformed Kapalua into a thriving village and successful pineapple industry. The tunnels and cement flumes Fleming had built to direct water from mountain gulches for water and electricity supply Kapalua today. In appreciation and lasting memory of this great man, Maui Land & Pine Co. officially named Honokahua Beach at Kapalua D.T. Fleming Park.

His support of the church, his happy family life, his hardy adventurous spirit and above all his personal friendships with people of all persuasions, his warm-heartedness, generosity and complete unselfishness made David Fleming not only one of the most outstanding but also one of our county’s most beloved of citizens.

2005

At Maui County’s Centennial Celebration, D.T. Fleming was one of 100 honored as “Citizen of the Century” of Maui County.

Today, the Fleming Arboretum is one of Hawaii’s oldest and largest collections of indigenous trees in the Hawaiian islands, and a seed bank for their survival.

Euphence Fleming Vockrodt, daughter of D.T. Fleming. “Euphie” and her late husband Jack Vockrodt maintained the Arboretum for 45 years. She is now Emeritus Director of FOFA.
Support Flourishes for the Arboretum

Thanks to generous donations by individuals and foundations, the Arboretum will be strong into the future ... an Arboretum for Hawaii with an unparalleled heritage.

Helene Steiner and John Jackson load rich composted mulch for an organic boost to Arboretum health. “Project Mulch” has begun.

2005 Approved Grants

- A&B Foundation contributed $1000 for “Project Mulch.”
- Cooke Foundation has given the Arboretum $2500 to help fund “Project Mulch.”
- Hawaii Community Foundation provided travel funds to the Conservation Conference 2005 on Oahu.
- Atherton Foundation has funded $3000 to Irrigation Automation and “Project Mulch.”

2005 Completed Grants

- Cooke Foundation has given $3500 for Irrigation System Upgrade for Native Plant Habitat Expansion.
- Fred Baldwin Memorial Foundation donated $3000 for Native Plant Inventory and Arboretum map.

Bob Hobdy, retired head of DLNR for Maui County, and his wife Doreen pose with completed map of the 7-acre Fleming Arboretum, funded by Fred Baldwin Memorial Foundation.

Funded by Cooke Foundation, new 1-inch sclar line was installed by Greg Patterson to service Arboretum expansion. In addition, drip hose was extended to 159 new seedlings planted in 2004.

- A USDA WHIP grant funded 75% of $22,000 to enclose the 8-acre Arboretum with hog fencing.

Out with the old ... in with the new. This pig-proof custom gate was designed and installed by John Daniels of Ulupalakua.
Propagation Workshop 2005

Propagation workshops target Maui’s community groups and interested individuals. Past classes have included Native Plant Society, Maui Association of Landscape Professionals, Maui Master Gardeners and Keokea Homesteaders. This year we were honored to sponsor students from the Maui Garden Club learning “Stem Cutting Propagation,” taught by professional Richard Nakagawa.

Richard shows how cuts are made at an angle from the leaf node to remove excess wood that may encourage rot.

Combining rooting powder into the container of water evenly coats the cutting with growth hormone and avoids contaminating the jar of rooting powder.

Although the presence of leaves on cuttings is a strong stimulus to root initiation, large leaves must be reduced to lower water loss and dehydration of cuttings. Richard helps Sylvia Cabral with pruning.

Becky Erickson takes cuttings from actively growing shoots, ideally one year old ... not too soft and immature nor too mature and woody.

Commercially, cuttings are put under mist sprays allowing for use of large cuttings with greater leaf area. Barbara Lund and Marge Bonar cover their pots with polyethylene bags, which works as well to prevent water loss from leaves.

After demonstration and instruction, members of the Maui Garden Club mass-produce pots of *Hibiscus waimeae* for distribution during Arbor Week 2005. (L-R) Donna Mann, Sylvia Cabral and Kathy Lindsey.
Projects Paid For With Individual Donations

Thanks to the generous donations by individuals, FOFA has been able to support progressive projects in 2005, as well as basic Arboretum maintenance.

John Gagnon helps with maintenance. He specializes in progressive projects such as roadwork and clearing, using his dump truck and mini-excavator.

All well run non-profits need a good bookkeeper. We are fortunate to have Linda Pope, who is experienced with 501-C3 corporations.

FOFA was created as a non-profit to qualify for grants and tax-deductible donations. Lucienne de Naie makes time in her busy schedule to do our grant writing. Her work has made possible accelerated Arboretum progress.

One of the primary goals of the Arboretum is to maintain healthy plants which leads to healthy weeds, which means continuous maintenance. Antonio Diaz takes care of these matters.

Rare plants ready for planting from Hoolawa Farms, Maui Nui Gardens and Richard Nakagawa of the Native Plant Society.

Terry Reim, FOFA’s webmaster, planted in front of his computers, digging his way through reams of information, pruning the old dead words, which in the new season brings forth this newsletter.

The website, www.flemingarboretum.org, was created by donations in memory of Jack Vockrodt, who supported the Arboretum for 45 years, from 1957 to 2002. Ongoing updates are funded by individual donations and volunteer time.

Visit “Pu’u Mahoe Close Up” on our website to see this generous donation of stunning macro photography by Bob Bangerter.
Donations & Gifts in Kind

There has been overwhelming support for the D.T. Fleming Arboretum and its newly formed non-profit foundation. In acknowledgement and appreciation, FOFA would like to thank our donors for helping to support the Arboretum ... an Arboretum for Hawaii with botanical, cultural and historical significance.

Every bit of support is like a brick in a wall ... important to the whole structure, a long-lasting contribution. The benefits of donations are realized in perpetuity. As donors continue to contribute, their donation status rises to the next level. Donations since January 2005 are noted by stars next to donor names.

**Monetary Donations**

**ALANI - $5000 & Above**
- Atherton Family Foundation*
- Cooke Foundation*
- Fred Baldwin Foundation*
- Moran, Dave & Martha*
- Pacific Equipment LLC*
- Vockrodt, Jack & Euphene*

**MEHAMEHAIME - $2500 to $4999**
- A & B Foundation*
- Pacific Logging & Equipment
- White, Judy & Dan

**LAMA - $1000 to $2499**
- Holloy, Moria
- Hughes, Edmund & Patricia*
- Kaululani Urban Forestry

**ILIHI - $500 to $999**
- Bonbow, Eric & Melissa*
- Coons, Fred & Mary*
- Fleming, Barbara
- Fleming, Jim & Joanie*
- Levy, Karen
- Manconi, Paul & Judy*
- Maui Outdoor Circle*
- Platt, Kathleen
- Shields, Rodney*
- Shotts, Norman & Florence*
- Vipassana Metta Foundation*

**ALAA - $100 to $499**
- Allan, George & Janet
- Anderson, Joanne
- Armstrong, John & Sean
- Bailey, John & Gordeonna
- Baldwin, Holen
- Bangasser, Bob & Nida
- Bank of Hawaii
- Bedall, Margaret
- Begall, Paul & Pam
- Bisgard, Judy
- Bolte, Jim & Loria
- Brown, Will & Natake*
- Chandler, Charlie & Linda
- Congor, Rand & Erin
- Connell, Emmons & Mary*
- Davis, Muffie
- Dickert, Dennis & Priscilla*
- Eisen, Katherinne
- Fleming, Andrew
- Fleming, Bridget & David
- Fleming, John & Nancy
- Fleming, Leslie & Kevin Wilcock*
- Fleming, Maggie
- Fleming, Robin
- Fleming, Sarah
- Gardner, Carolyn*
- Gerner, Heinz & Margaret*
- Gonalsens, Dennis & Carol
- Graydon, Don*
- Hawaii Community Foundation*
- Haynes, Jimmy & Honey Bun*
- Higa, Julie M
- Hils, John
- Holley, Ray & Marian
- Jennings, Thomas & Virginia
- Jones, Jim & Karen
- Judge, Jim & Lisa
- Judson, Dan - Orchids of Oluida
- Kermoda, Harry & Mille
- Lane, Ed and Diane
- Lobianco, Jim & Mary Jo
- Many Star, Alani & Hand, Wyatt*
- Maui Asian of Landscape Professionals
- Maui Garden Club
- Maui Master Gardeners
- Mauna Alii Hike Club
- McCarthy, Michael*
- Mikolay, Paul & Joan*
- Milkin, Jimmy
- Monroe, Cyrus & Jill
- Muller-Fitch, Heather
- Native Plant Society
- Niece, Jim & Stephanie Austin*
- Nutt, Terry & Tammy
- Okumura, Kazuma
- Pellky, Gordon & BJ
- Pukalani Plant Company
- Purcell, Nancy
- Raymond, Koepa & Lisa
- Pea, Robert & Martha*
- Reavis, Wayne & Jacqueline
- Reznick, Ernest & Alene*
- Rice, Paul and Corine
- Rixey, George & Randy
- Robb, Allan & Lundi
- Rocha, Leona
- Russell, Bill & Elizabeth
- Ryan, Bob & Pat*
- Sanders, Jim
- Schenk, Doug & Cindy
- Scott, Adam & Mary Jane*
- Selfert, Jean
- Shambaugh, Dave & Ingrid
- Sheralo, Nancy*
- Slipp, Jane
- Steuermann, Michelle
- Stevenson, Mona*
- Sugar, Robert & Helen
- Talb, Patrick & Alison
- Tavares, James & Helen
- Therios, George*
- Trotton, Bob & Jean*
- Traill, Marilyn
- Tuell, Richard J
- Uhrich, Ann
- Wagner - Rixey, George & Randy
- Warner, Cindy
- Warren, Charlotte*
- Watanabe, Verne Wy (Rick)
- Weber, Clevee
- Wheeler, Bo & Mary
- White, Dan & Judy
- Wiese, Mimi

**WILIWILLI - To $99**
- Adams, Shelly
- Babson, Ann
- Barr, George & Rusty*
- Barton, Sue Ellen
- Biley, Pat and Marcie
- Blake, Mimi
- Brayton, Chris
- Brown, Frank & Susan
- Burton, Cathy
- Chang, Di Jocelyn
- Collins, Mark & Deryne
- Conrad, Judith & Kurt*
- Cruikshank, Sally & Colleen
- D'Orange, Alice
- Darling, David
- Davis, Muffie
- De Jetley, Alberta*
- De Mane, Rick & Rene*
- Dellaport, Jane
- Dues, John & Rose Marie
- Dunnig, John & Doris*
- Echazabal, Diane & Jim
- Elliot, Marcia & Lew McFarland
- Fahsholtz, Thomas
- Fahsholtz, Chelea
- Feldman, Spenser & Corine Morris
- Fell, Diane
- Finn, Darlyn
- Fleming, Nancy & family
- Forchtado, Ben & Else*
- Gamborini, George & Margaret
- Gammie, Gay
- Ghen, Bruce
- Gery, Michael & Analee*
- Goldston, Steve & Fran
- Grundhauser, Jeff & Debbie
- Harada, Hatsuye
- Hazen, Lorna
- Hi Growers Products
- Hixon, Murray
- Holler, Lance
- Johnson, Ruth
- Kais, Joloyce
- Kaufman, Buzzy & Gayle Gordon
- Kawaiheke Margaret
- Kennedy, Anne
- Kiddon, Carol
- Ke, Hank & Barbara
- Kurzmac, James & Roni
- Labb, Jerry & Cynthia
- Leckie, Jackie & Larry
- Lily, Mary
- Linton, Mary Brook*
- Lopes, John & Caroline
- Lyons, Camille
- MacKnight, Jan*
- Martin, James & Jacqueline
- Masters, Kamale & Steve
- Matsuoka, Gunichi & Beesi
Volunteer Services

Cho, John - Fungus Specialist
Duval, Fern - Plant Research
Fukada, Mack - Entomology Services
Kellner, John & Diane - Mailings
Levy, Karen - Secretarial Work & Newsletter Mailings
Lobianco, Jim & Mary Jo - Mailings
Lock, Donna - Graphic Design
Monson, Val - News article
Moran, David - Chain saw & Tractor Work
Moran, Maggie - Ope & Slim - Peacock Patrol
Nutt, Terry - Propagation Workshop Assistant
Quisentberry, Terry - Pig hunting
Reznets, Ernest - Horticultural Consultations
Wender, Elaine - Hawaiian Language
Wheeler, Leon & Barb - Mailings
White, Judy - Nonprofit consultant & setup

Arboretum Volunteer Work

Crow, Jack & Margaret
DeMello, Debbie
Judson, Dan
Judson, Noah
Kafka, Peter
Kellerhals, Ceci
Kithele Wailea Citizen Beach Patrol
Maui Garden Club
Mau'i Sierra Club
McBarnett, Will
Moran, David & Martha

Plants

Auwahi Reforestation Project
Davis, Muffie
DLNR
Duval, Dr. Fern
Hedemann Jr., Erling
Hoolawa Farms
Judson, Dan
Judson, Noah
Keyser, Jonathan
Lyon Arboretum
Mauka Nani Nursery
Mederos, Art
Nakasawa, Richard
Native Plant Society
Nishi, David
Orchids of Olinda
Palomino, Anna
Roberts, Mark
Rogoff, Kua
Sugi, Reille
Taus, Arlene
Van Dyke, Peter
Wong, Paul
Yey, Aleerne

In Memorium

2005

J. Wilcox Brown
"To Will with love
With admiration & many happy memories"

Marlin Monson
"If dogs could be saints"

2004

Ward and Barbara Fleming
Mrs. Shizue Okumura
Mrs. Pedro
Mr. Jeffrey Alden Brumfield

Mr. Jack Edward Vockrodt
"Let his values...what is good, right and fair
His zest for life,
His generosity,
Be an inspiration"

2003

Mrs. Alice Fleming
Mr. Zenjiro Higa
Mrs. Vernie Elsen
Aileene Yeh of Hilo’s State Research Center, succeeded in the highest Alani seed propagation rate of 20% (vs. the average 5%) from 2004 seed. In June this year she hand-carried fifteen Alani seedlings via air for outplanting on Maui so they would not freeze in baggage. She continues to generously donate her nursery and time for propagation of the Arboretum’s rare species.
Our Future

As a gift to website viewers these two gorgeous images of Wiliwili in flower by Michelle Steuermann are available in large format for your computer screen. Visit our homepage for instructions at www.flemingarboretum.org.

Wish List 2006

- A toolshed and flush lua (toilet) at the Arboretum.
- Trail reinforcement supplies.
- Water-tank roof & hookup.
- Complete fenceline clearing for firebreak & protection from falling trees.
- Certified Arborist work to prune the large Arboretum trees
- Arboretum expansion increasing populations of rare dryland species.
- Upgrade campground with lua and outside shower for volunteers & youth groups.

Vision for the Future

To restore Pu‘u Mahoe cinder cone to the original rolling hills, free of wattle, allowing more land for reforestation with native plants endemic to the area.

To create a simulation of the Auwahi Forest with natives competing with each other, rather than with invasive, alien species ... with upper-middle- and lower-story dryland species amongst a carpet of native grasses and ground covers...a habitat for native birds and insects ... "a vignette" of primitive Hawaii.

"For the lover of nature who goes about with his eyes open, and particularly so if he has spare hours for mountain tramps away from the haunts of man, a world of unsurpassed beauty awaits . . . ."

- D.T. Fleming, 1935

D.T. Fleming was active with the Boy Scouts, including them in many of his outplanting projects. We encourage youth group involvement in all activities we sponsor at the Arboretum.

NOTE: Missing Volunteers 2005 from collage on page 10: David Neihaus, Judy White, Kathleen Platt and Peter Van Dyke.

Full moon rises above the D.T. Fleming Arboretum.
Thank you. Please mail to:
Friends of D.T. Fleming Arboretum
P.O. Box 101
Makawao, HI 96768

Enclosed is my tax-deductible donation payable to:
FOA (Friends of the D.T. Fleming Arboretum).
Please add my address to newsletter mailing list.

I would like to help the D.T. Fleming Arboretum and its mission in the following manner:

Name: ____________________________
Address: ___________________________
Phone: ____________________________

The Friends of D.T. Fleming Arboretum at Pu'u Mahoe
Dedicated to Preservation through Protection, Propagation & Distribution

Off 'a Lua'au by Michelle Ritchie