

Friends of Hawai'i Volcanoes National Park - Hawai'i Volcanoes Institute  
presents

# HAWAIIAN FERNS

Saturday, February 20, 2010

9:00 am - 3:00 pm

*Hawai'i Volcanoes National Park*



## Program

Do all ferns look alike to you? Or maybe you know a few ferns and would like to learn more? Then join expert botanist Tim Tunison to learn how to identify Hawaiian ferns and fern allies. By the end of the day, you'll realize that ferns are quite distinct from each other plus have the skills to identify them on your own.

The seminar begins with a short, indoor session on fern structures and life cycles, plus practice using a custom-made identification key prepared by the instructor for the Kilauea summit area. Using this key will prepare us to use Dan Palmer's *Hawai'i's Ferns and Fern Allies*, a more technical manual of the state's ferns. Finally, we'll do some propagation of fern spores, which includes a small terrarium for you to take home to germinate the ferns.

Next, short hikes visit three highly varied fern environments: rain forest (130 inches of rain), mesic forest (60 inches of rain), and dry lava flows. In each site, we will identify ferns using the keys as a group, in teams, and individually. Other seminar participants have identified over 20 fern species on their own in this way. The instructor will also point out and identify other ferns, particularly the smaller, easy-to-overlook species, or species that tell an ecological story.

All along the way, we will casually discuss, prompted by field examples, the ecology of ferns: how dispersal by spores affects their diversity in Hawai'i, their abundance in different habitats, the challenges and benefits of an epiphytic habitat, how they are adapted to occasional drought in the rain forest and dry habitat, and how they are affected by invasive species and ecosystem restoration.

## **Presenter**

Tim Tunison worked for 23 years as a botanist/vegetation management specialist and as Chief of Resource Management at Hawai'i Volcanoes National Park. Since retirement he has been teaching courses in native plant identification, propagation, and restoration. He is delighted to live in the rain forest summit area of Kilauea.

## **Details**

The experience is rated easy to moderate. The hikes are slow-paced and total about 1 ¼ miles, mostly on park trails. Be prepared for variable weather conditions.

Please bring:

- 👉 a hand lens or magnifying glass
- 👉 drinking water
- 👉 packed lunch
- 👉 hat
- 👉 sunscreen
- 👉 rain gear
- 👉 sturdy walking shoes
- 👉 personal items (e.g., walking stick, camera, etc.)

*\*\*\*If Vog conditions are extreme on the day of the event, the program may be rescheduled.\*\*\**

## **Cost**

This event is presented by the Hawai'i Volcanoes Institute, a program of the Friends of Hawai'i Volcanoes National Park, a non-profit organization. Program cost is \$40 for Friends members and \$55 for non-members.

## **Registration**

To register, visit [www.fhvnvp.org](http://www.fhvnvp.org), email [admin@fhvnvp.org](mailto:admin@fhvnvp.org), or call 985-7373. The office is only staffed part-time, so be sure to leave a message, and your call should be returned within a day or two.

Your registration is confirmed when you pay by credit card over the phone or online, or when we receive a check payable to: Friends of Hawai'i Volcanoes National Park (FHVNP), P.O. Box 653, Volcano, HI 96785.

## **Cancellation Policy**

The Friends of Hawai'i Volcanoes National Park will gladly refund your full amount up to 7 days prior to the day of the event. Between 2 to 6 days, 50% of the cost of the event will be refunded. If cancellation is within 48 hours of the start of the event, 0% will be refunded. All proceeds help support Hawai'i Volcanoes National Park.

*This event is supported in part by a grant from the Hawai'i Tourism Authority's County Project Enrichment Program.*

