

Weed Science 2005

The Annual Meeting of the Weed Science Society of America
Sheraton Waikiki, Honolulu, Hawaii
February 7 - 10, 2005



Symposia

Finishing Graduate
School and Deciding
Which Road to Take

Weed Genomics

Biological Control of
Weeds in Hawaii

Economic and
Environmental Losses
Due to Weeds



Dear WSSA Member,

A special invitation is extended to each of you to participate in the 45th Annual meeting of the Weed Science Society of America. Our meeting will be held at the Sheraton Waikiki Hotel in Honolulu, HI. Carol Mallory-Smith and Roy Nishimoto have been working diligently to ensure an excellent program for members and guests. The scientific program will feature timely symposia, a discussion session and poster and oral paper presentations on the latest weed science research. The entire program will be posted on the WSSA web site (www.wssa.net). Printed programs will be sent to symposium speakers and those who register by January 7, 2005. Programs for late registrants and on-site registrants will be available at the registration desk in Honolulu.

Please take the time to complete and mail the meeting registration and hotel reservation forms that are included in the brochure. It's not too early to make travel plans for what promises to be an excellent meeting. I look forward to seeing you in Honolulu. Aloha!

Donn Thill, President



Cover photos courtesy of HVCB and photographers Joe Solem, Kirk Lee Aeder and Ron Dahlquist



Photo courtesy of HVCB and Chuck Painter

Schedule of Events

Sunday, February 6

Board of Directors 8:30 a.m. – 5 p.m.

Monday, February 7

Committee Meetings 10 a.m. – 3:30 p.m.
 Board of Directors 8 a.m. – 3 p.m.
 General Session & Awards Presentations 4:15 – 6 p.m.
 Awards Reception 6 – 8 p.m.

Tuesday, February 8

Poster Session A 7:30 – 9 a.m.
 Paper Sessions 9:15 a.m. – 12 noon
 Symposium: *Finishing Graduate School and Deciding Which Road to Take* 9:15 a.m. – 12 noon
 Symposium: *Biological Control of Weeds in Hawaii* 1 - 5 p.m.
 Paper Sessions 1 - 5 p.m.
 WSSA Business Meeting 5:15 - 6:30 p.m.
 Graduate Student Social and Meeting 6:30 - 8 p.m.

Wednesday, February 9

Board of Directors and Committee Chairs 7 - 8:30 a.m.
 Poster Session B 7:30 - 9 a.m.
 Paper Sessions 9:15 a.m. - 12 noon
 Weed Tours 12 noon - 6 p.m.
 Polynesian Sunset Reception 7 - 10 p.m.

Thursday, February 10

Paper Sessions 8 a.m. - 12 noon
 Symposium: *Weed Genomics* 8 a.m. - 12 noon
 Paper Sessions 1 - 5 p.m.
 Symposium: *Economic and Environmental Losses Due to Weeds* 1 - 5 p.m.

Friday, February 11

Board of Directors 7:30 a.m. - 4 p.m.

Weed Tours

Due to the unique location, on Wednesday, February 9, the following weed tours will be offered in lieu of the traditional oral presentations and symposia. All tours will be departing the Sheraton from 12 noon to 1 p.m. and returning by 6 p.m., in time for the evening outdoor reception back at the hotel. The price of all tours is \$30 per person. The tours run simultaneously, so you can only register for one tour. Guests are welcome on the tours but need to register. Guests do not have to register for the receptions to register for a tour. The tour price includes transportation and any admission fees.

Biological Control of Invasive Plants Field Tour

Organizer: John Lydon

Please join us on a field trip to view the biological control of invasive plants in Hawaii. Our trip will cover East Oahu, with stops at five sites where invasive plants are present and under various stages of control. The trip will include stops at Makapuu Lighthouse Road and Beach Park, Bellows Recreation Area at Waimanalo, the Waimanalo Farming Area, and Nuuanu Pali Lookout to observe the biological control of invasive plants such as *Opuntia ficus-indica* (prickly pear), *Tribulus cistoides* (puncture vine), *Schinus terebinthifolius* (Brazilian pepper tree), *Coccinia grandis* (ivy gourd), and *Ageratina riparia* (spreading mist flower). Other planned stops will be to view Hanauma Bay Crater (www.co.honolulu.hi.us/parks/facility/hanaumabay/baymap.htm), Halona Blow Hole (www.shorediving.com/Earth/Hawaii/Oahu/Halona/), and a visit to Hoomaluhia Botanical Garden (www.co.honolulu.hi.us/parks/hbg/hmbg.htm).

Invasive Plants Tour

Organizer: Phil Motooka

There is a saying in Hawaii: "If you don't like the weather, keep driving." This tour, designed by Nilton Matayoshi of the Hawaii Department of Agriculture, will take you from the dry leeward coast of Oahu where mesquite is an emerging problem, to the rain forests of the Koolau Mountains and the mesic windward lowlands where invasives from the tropics have taken a foothold or even become dominant. Then it's on to the Nuuanu Pali where the panoramic view demonstrates how the prevailing trade winds have sculpted the Hawaiian Islands.

Oahu Agricultural Tour

Organizer: Local Tour Company

After leaving your hotel, you will discover the rich cultural and historical heritage that downtown Honolulu has to offer. Besides being a tropical paradise, Oahu holds the most cosmopolitan flavor of all the Hawaiian Islands. Your guide will introduce you to many of the island's highlights. Your first stop will be at Dole Plantation Pavilion where you will discover the different pineapple varieties and walk through the gardens that are adjacent to the "world's largest pineapple garden maze."

Your next stop will feature a presentation by three well known local farmers. We have brought Ken Kamiya, professor of Agriculture at BYU and namesake of the Kamiya Papaya varietal, Clyde Fukuyama of Matsuda-Fukuyama Farms which is known for its papayas, bananas and taro and Duane Lau of Mays Wonder Gardens known best for its hydroponic lettuce farms to Helemano Plantation to talk to you about the agriculture of the state and to demonstrate some of the unique farming methods used in Hawaii. Here you will also taste the wonderful pineapple and papaya.

Pineapple Tour

Organizer: Roy Nishimoto

Our local arrangements chair, Roy Nishimoto is putting together this tour. Pineapple will be the focus of this tour. Pineapple is produced on the central plain. A visit to the pineapple field operations and packing facilities has been planned. In addition, banana production recently initiated on Oahu's central plain will be visited.



Photo courtesy of HVCB and Joe Solem

Hotel: Centrally located on the world-famous Waikiki Beach, the Sheraton Waikiki has 1,659 rooms and suites that come with either an unparalleled view of white-crested waves, the Ko'olau Mountains with their majestic silhouettes, or Honolulu's whirling constellation of lights. Over two-thirds directly face the Pacific. And this is simply one of the countless dazzling panoramas. Wherever you turn, new riches appear—from a sunrise witnessed atop legendary Diamond Head to a half-mile of dazzling white sand on Waikiki's most famous beach.

"The Heartbeat of Excitement and Center of Entertainment," Sheraton Waikiki offers experiences to suit all tastes and ages. With nightly Hawaiian music and dance at its poolside location,



it's a perfect ending to a busy day and sets the tone for an incredible evening.

Esprit, Waikiki's only beachfront nightclub that features Hawaii's finest entertainers, is the perfect venue for dancing pleasures. Also, the Hanohano Room introduces the sounds of Stardust, one of Honolulu's hottest bands. In the spirit of ho'okipa (to entertain), the Sheraton has designed the Ho'okipa Activity Center. This special place includes a fitness center, a business center, and a children's center, home of our Keiki Aloha Program.

Guestroom amenities include writing desks, cable television, iron and ironing board, hair dryers, and individual climate control.

Important Information: One of the reasons we have been able to retain

relatively low meeting registration costs is that we receive free meeting space from the hotel. However, we are charged attrition fees if we do not meet our guest room block. Thus, your reservation at the Sheraton rather than another location, ensures the success of the meeting for the Society and lower registration rates in the future.

Room Reservations: To make your room reservations, please complete the Hotel Reservation Form below and return it to the address listed on the form or call the hotel directly at 808/921-4611. **Please be sure to mention you are with the Weed Science Society, to obtain the group-discounted rate. Our room block will be held until January 12, 2005. Accommodations and rates requested beyond the cut-off date will be offered based on availability.**

Please Reserve Accommodations For: (please print)

Name _____ Affiliation _____

Address _____

City/State/Zip _____

Email Address _____

Sharing room with _____ Signature _____

One form per room

Room Type/Rates: (please check appropriate box)

Single: \$189 + tax Double: \$189 + tax Third Party: \$234 + tax Quad: \$279 + tax (Tax = 11.41%)

Arrival date: _____ Estimated time of arrival: _____ Departure date: _____

*Rates will be honored three days prior and three days after the main convention date, based on hotel availability. **Deadline for registration is January 12, 2005 • Check-in 3 p.m. • Check-out 11 a.m.***

Payment:

Accommodations must be guaranteed by credit card or check made payable in the amount of one night's lodging plus tax. Unless reservations are cancelled 72 hours prior to arrival date, you will be charged for the first night. Unless otherwise indicated, any deposit received will be equally distributed among room occupants.

Check Enclosed American Express Diners Club Discover MasterCard VISA

Card Number _____ Exp. Date _____

Cardholder Name _____ Signature _____

Reserve Your Room:

- By Phone: 808/921-4611. Mention Weed Science Society of America and ask for the convention rate.
- By Fax: 808/921-4697
- Clip and mail form to: Sheraton Waikiki, The Reservations Center, 2255 Kalakaua Avenue, Honolulu, Hawaii 96815-2579

More than you imagined, more than you knew, Oahu is a rich and rewarding destination. Beyond the turquoise waters, the pristine beaches, and the razor-edged mountains, there's a legacy of royalty, a delicious blend of Pacific influences and the luxurious pace of island relaxation.

Oahu is the sun and fun capital of the Hawaiian islands with an array of sea, land and sporting activities from which to choose. Visitors will enjoy hiking through rainforests, biking along mountain ranges and swimming in the azure blue waters of the Pacific. These activities are excellent vehicles to explore the environment, history and experience the culture of the island.

Air Transportation

Honolulu airport is served by 19 airlines, including Air Canada, American Airlines, China Air, Continental, Delta, Hawaiian Airlines, Japan Air, Korea Air, Northwest Airlines, and United Airlines.

The Main Terminal, which encompasses the majority of the Airport, services domestic and international flights. Arrivals and departures are located on the second level, while the baggage claim areas and ground transportation are located on the first (ground) floor. The two levels may be accessed by either escalator or elevator. Loading bridges are used to enplane and deplane all passengers on the second level.

Ground Transportation

Transfers are available to Waikiki via four (4) options in addition to renting your own vehicle. For those not renting, you can take:

Airport Waikiki Express: This is usually a 50 passenger bus that will make stops on a pre-planned route. It does include a stop at the Sheraton Waikiki parking garage but can include stops at other locations.

Estimated Travel time from airport: 1 hour or more depending upon stops and passenger count



Photo courtesy of HVCB and Chuck Painter



Cost: \$9 per person one-way; \$14 round-trip *Operates 24 Hours – Bus leaves every 20-30 minutes*

Ilima Waikiki Tours and Transportation: As a preferred vendor of Sheraton in Waikiki, this service uses mid-to-large size vans of up to 20-25 passengers. It makes stops at all 4 Sheraton Hotels in Waikiki but may include other stops as well.

Estimated Travel time from airport: 35-55 minutes depending upon traffic conditions, passenger count and stops.

Cost: \$9 per person

Reservations: www.ilimatours.com/reservations-air.htm Toll Free: 800/713-0146

Taxi: There are taxi dispatch personnel meeting all arriving flights. Taxis range in size from sedans to vans.

Estimated Travel time from airport: 25-45 minutes

Cost: \$25 and up; additional fees may apply for extra passengers, luggage and waiting time.

Limousine: One of the preferred vendors providing quality Limousine and Luxury Sedan transfers is Elite Limousine. Visit their site to choose your preferred transfer option and make a direct reservation. www.elitelimo-hawaii.com/ Toll Free: 800/776-2098

City buses: ("TheBus") are equipped with wheelchair lifts and provide inexpensive transportation to and from Waikiki. Baggage is allowed if it can fit on your lap or under your seat. Backpacks with metal frames are not allowed. One-way fares are \$2 for adults and \$1 for children up to 18 years of age. Call 808/

848-5555 for route information. **(Rates quoted for all ground transportation are as of September 15, 2004 and are subject to change)**

General Information: Travel Light!

Hawaii is one of the more informal places on the globe, it's warm all year long, and unless you are staying at a five-star hotel, there's seldom need for a jacket. (In the winter months, a light jacket or sweater might be appropriate for evenings or to protect against the occasional rain squall.) Most restaurants require shoes and a shirt for service, but casual is definitely the order of the day. Everybody needs five things; swimsuit, shorts, sunglasses, waterproof sunscreen and a camera. Everything else is optional.

For women, we'd recommend light slacks, a sundress, a sweater, comfortable shoes (maybe even jeans or hiking shoes if you plan to hike) along with something for casual evening wear.

For men, jeans make sense if you're trekking into the forest, otherwise light sport shirts and trousers and a pair of loafers and walking shoes make up a complete wardrobe.

For the most part, sit down and think and set out a proposed itinerary for what you want to do on the island, then dress appropriately. If you're attending the Opera and having dinner at one of the great five star restaurants, a blazer is certainly appropriate, but if you're traveling on a budget... relax. Slacks, shirt and shoes will get you almost anywhere.

The winter months (Oct. – March) have slightly higher rainfall and cooler temperatures. Most months have less than two inches, but January can have an average as high as four inches at Waikiki.



Photo courtesy of HVCB and Joe Solem

Spouse and Member Activities

Once again, there will not be a formal spouse/guest program. Spouses and guests will need to register for the meeting in order to attend the evening receptions. There will be a room at the Sheraton for spouse/guest attendees to meet each other and plan activities. The Sheraton offers tour arrangements for the many activities that are available. There is also a children's center located in the hotel.

Wednesday Night Reception

Polynesian Sunset

Our traditional last reception of the meeting has been moved to Wednesday evening and weather permitting, will be held outside on the lawn. In addition to great food and beverages, the evening will include special Polynesian entertainment and music

Registration Fees

Please see the registration form for costs on registration and the weed tours. Take advantage of the early bird discounts and register by December 1, 2004. Receipt of payment will be included in registration packets to be picked up at the registration site.



How to Register:

Mail: Complete the registration form, include payment, and send to:
WSSA Meeting Manager
Registration 2005 Annual Meeting
P.O. Box 7050
Lawrence, KS 66044-7050

On Line: (for credit card registrations only):

Meeting registration can be accessed and paid for directly on line by going to the meeting registration section of the WSSA web site: www.wssa.net.

E-mail: (for credit card registrations only):

A complete registration form can be found at www.wssa.net. Copy or download and fill out the online registration and e-mail to wssameeting@allenpress.com.

FAX: (for credit card registrations only):

Complete the registration form found in the Weed Science Society of America's Annual Meeting Brochure or download the registration form from the society's web page and fax to 785/843-1274.

Questions: Contact Rhonda Green at 800/627-0629 ext. 220 or 785/843-1235. E-mail address is wssameeting@allenpress.com.



Cancellation Policy: Written notice of cancellation received on or before January 16, 2005 will be refunded, less a \$50 processing fee (to be processed after the annual meeting). *No refunds will be issued for cancellations after January 16, 2004.* Participants unable to attend the conference can make substitutions.



Photo courtesy of HVCB and Kirk Lee Aeder

Print or type name clearly **as you wish it to appear on your badge**. One form per registrant (only a spouse/guest may be included on the same form). Spouse/guest must be registered in order to attend WSSA activities. This year we have an early bird registration rate until December 1st, a December 1st through January 15th rate, and a late registration/onsite rate.

First Name _____ Last Name _____

Affiliation _____

Street Address _____

City _____ State _____ Zip/Postal Code _____

Phone _____ Fax _____ E-mail _____

Emergency Contact _____ Phone _____

Please Specify Any Special Needs _____

Spouse/Guest Name _____ E-mail _____

Registration Type	Early Reg. (Dec. 1)	Dec 2 - Jan.15	On-Site	SubTotals
Member*	\$195	\$295	\$350	\$ _____
Non-Member*	\$295	\$395	\$450	\$ _____
Student*	\$125	\$175	\$225	\$ _____
Spouse/Guest*	\$ 50	\$ 50	\$ 50	\$ _____

*All receptions are included but to facilitate planning, please indicate whether or not you will be attending the receptions

Monday evening: _____(No. of persons) • Wednesday evening: _____(No. of persons)

One day registration is available for non-members and non-member students.

This registration is for one day only. If you plan to attend any of the receptions or multiple days, you need to register for the entire meeting.

One Day Registration (non-members only)

Please specify day Tues Wed Thurs \$100 \$ _____

One Day Registration (non-member students only)

Please specify day Tues Wed Thurs \$ 50 \$ _____

Tours (Pre-Registration Required)

	Number Attending	Cost	Sub-Totals
Biological Control of Invasive Plants Field Tour	_____	x \$30	\$ _____
Invasive Plants Tour	_____	x \$30	\$ _____
Oahu Agricultural Tour	_____	x \$30	\$ _____
Pineapple Tour	_____	x \$30	\$ _____

Endowment Contribution (Optional) \$ _____

TOTAL \$ _____

Forms of Payment

Total Check Amount: \$ _____ Check Number _____

MasterCard VISA Credit Card Number _____ Exp. Date _____

Signature _____ Print Name as on Card _____

Do Not Send Cash. Please Make Checks Payable to WSSA. All fees must be paid in US funds and drawn on US banks. **Cancellation Policy:** Written notice of cancellation received on or before January 16, 2005 will be refunded minus a \$50 processing fee (to be processed after the annual meeting). No refunds will be issued for cancellations after January 16, 2005. Substitutions of registrants are allowed.



Weed Science Society of America
Annual Meeting Registration
P.O. Box 7050
Lawrence, KS 66044-7050

First Class Mail
U.S. Postage
PAID
Permit No. 1
Lawrence, Kansas

Weed Science 2005



Early Bird Registration by December 1
Pre-Registration by January 15 for the WSSA 45th
Annual Meeting in Honolulu, Hawaii