

Avocado Laurel Wilt Summit

November 3, 2016 (Thurs.) Summit meeting at Miami-Dade Co. Extension Auditorium

November 4, 2016 (Fri.) Field tour of LW and TREC



The University of Florida, IFAS, Tropical Research and Education Center and Miami-Dade County – UF/IFAS Extension invite you to participate in this day-long summit and field tour. This Summit is supported in part by a USDA-NIFA grant (2015-51181-24257: Laurel wilt of avocado: Management of an unusual and lethal disease). There will be presentations by invited experts

on ambrosia beetles and plant pathogens, as well as updates on the on-going laurel wilt research at UF on the science-based approaches to controlling laurel wilt and its ambrosia beetle vectors. An update on the ambrosia beetle-*Fusarium* complex affecting California avocados will also be offered. We plan on visiting laurel wilt affected groves and have demonstrations of tree destruction and infusion/injection and early detection of the disease with canines.

Space is limited and registration is required for this event. Early registration for this event is available on-line through [Eventbrite](http://www.eventbrite.com/e/avocado-laurel-wilt-summit-tickets-27468098823) (or paste into browser <http://www.eventbrite.com/e/avocado-laurel-wilt-summit-tickets-27468098823>) or by filling in a registration form (at the end of this document or from on-line at one of the websites listed below) and enclosing a check made out to *The University of Florida* and mailing (or delivering) it to TREC, Laurel Wilt Summit, 18905 SW 280 St., Homestead, FL 33031. Early registration for the November 3rd Summit is \$25 (due by October 24, 2016). Late registration (after October 24, 2016) and on-site registration (day of meeting) for the Summit is \$40 (by check or credit card). Registration includes access to all Summit presentations and discussion, coffee and snack breaks, and lunch on November 3. Registration is free for the November 4th LW Field Tour – however please register if you plan to attend this tour.

Date: November 3rd, 2016 (Thursday)

Time: 7AM – Registration (8AM to 5PM presentations)

Location – Miami-Dade County Extension
18710 SW 288 St.
Homestead, FL 33030-2309
Tel: 305-248-3311

For more information, please visit: [TREC](#) or [TREC-facebook](#) or [Miami-Dade County Extension](#)

Contacts: Jeff Wasielewski at 305-248-3311 x.227 or 305-282-7526 or jwasielewski@ufl.edu or Jonathan Crane, at 786-217-9271 or 786-255-5878 or jhcr@ufl.edu

(Out-of-town participants please see below Agenda and Speaker Profiles for more information)

Tentative Agenda

Nov. 3, 2016; Thursday

Registration	7:00AM-8:00AM		
Section	Time	Speaker	Title
Registration	7:00AM-8:00AM		
Welcome and introduction	8:00AM-8:30PM	Jonathan Crane	Welcome
		Alan Flinn	Remarks
		Charles LaPradd	Remarks
		Councilwoman	Remarks
Entomology	8:30AM-9:00AM	Christopher Ranger, USDA-ARS	Minimizing the vulnerability of trees to attack by non-native ambrosia beetles
	9:00AM-9:30AM	Daniel Carrillo, UF/IFAS/TREC	Ambrosia beetles associated with laurel wilt in avocado
	9:30AM-10:00AM	Paul Kendra, USDA-ARS	Chemical Ecology and Lure Development for Redbay Ambrosia Beetle
	10:00AM-10:20AM	BREAK	
	10:20AM-10:50AM	Lukasz Stelinski, UF/IFAS/CREC	TBA
	10:50AM-11:20AM	Kirsten Pelz-Stelinski, UF/IFAS/CREC	TBA
	11:20AM-11:50AM	Paul Rugman-Jones, UC-Riverside, Dept. Entomology and Nematology	Polyphagous- and Kuroshio shot hole borers: invasive <i>Euwallacea</i> spp. threatening Californian agriculture and natural areas
	11:50AM-1:00PM	LUNCH	
Plant Pathology	1:00PM-1:30PM	Martin Dickman, Texas A&M, Dept. of Plant Pathology and Microbiology	Death be not proud: modulation of programmed cell death for disease development/stress tolerance in plants
	1:30PM-1:55PM	Randy Ploetz, UF/IFAS/TREC	Approaches and opportunities for managing laurel wilt
	1:55PM-2:20PM	Jeffrey Rollins, UF/IFAS/Plant Pathology Dept.	What the genome of <i>Raffaelea lauricola</i> can tell us about laurel wilt
	2:20PM-2:40PM	Bruce Schaffer, UF/IFAS/TREC	Vascular attributes of different avocado genotypes and how they could be used to manage laurel wilt
	2:40PM-3:00PM	BREAK	
	3:00PM-3:20PM	Akif Eskalen, UC-Riverside, Plant Pathology Dept.	<i>Fusarium</i> dieback in California: another ambrosia beetle-associated disease of avocado and urban forest
Economics	3:20PM-3:50PM	Edward Evans, UF/IFAS/TREC	The economics of rouging with and without replacement as management options for laurel wilt disease in avocados

	3:50PM-4:10PM	Karen Garrett, UF/IFAS/ Plant Pathology Dept.	Regional and global management strategies for laurel wilt
Horticulture	4:10PM-4:30PM	Jonathan Crane, UF/IFAS/TREC	Summary and recommendations for control of the laurel wilt pathogen and ambrosia beetle vectors

Photo credits: 'Donnie' avocado and tree, J Crane; *Raffaelea lauricola*, A Palmateer/P Lopez and; *Xyleborus bispinatus*/*X. volvulus*, D Carrillo.

Speaker profiles



Daniel Carrillo, Tropical Fruit Entomology, TREC, Homestead, FL

Specializes in IPM of tropical fruit crops and management of invasive pests. Lead UF researcher on biology and control of ambrosia beetle vectors of the laurel wilt pathogen.



Jonathan Crane, Tropical Fruit Crop Specialist, TREC, Homestead, FL

Develops education extension programs on tropical fruit production and management strategies including laurel wilt.



**Martin Dickman, Distinguished Prof., Plant Pathologist,
Texas A&M University, College Station, TX**

Research program centers on fundamental aspects of fungal-plant interactions and the identification of genes that allow pathogenic development. The goal is to develop potential interventions or strategies for pathogen resistance.



**Akif Eskalen, Extension Plant Pathologist,
University of California-Riverside, CA**

Research focus on fungal diseases of subtropical plants. Lead scientist on *Fusarium* Dieback on avocado vectored by the Polyphagous and Kuroshio Shot Hole Borers.

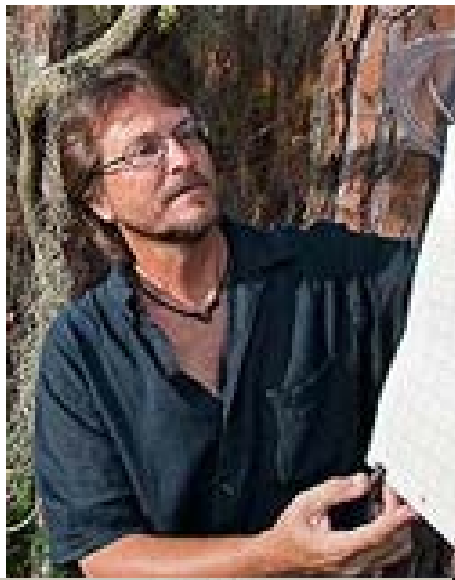


**Edward "Gilly" Evans, Economics,
TREC, Homestead, FL**

Research areas include trade, water and nutrient management, and management of invasive pests of horticultural crops (including avocado).



Karen Garrett, Plant Pathology-Sustainable Food Systems, Dept. of Plant Pathology, Gainesville, FL
Research focuses on evaluating the effect of research products on linked socioeconomic and biophysical networks including plant disease epidemics and their management.



Paul Kendra, Research Entomologist, USDA-ARS, Miami, FL
Research focus on understanding invasive pest behavior and biology and development of monitoring and management strategies of invasive pests including laurel wilt ambrosia beetle vectors in natural and commercial avocado environments.



Kirsten Pelz-Stelinski, Entomologist, CREC, Lake Alfred, FL
Research focuses on the biology and microbial ecology of insect vectors of plant diseases including citrus greening and laurel wilt to develop management control strategies.



Randy Ploetz, Plant Pathology – Tropical Fruit, TREC, Homestead, FL

Research focus on understanding the biology and epidemiology of fungal pathogens and the diseases they cause on avocado, mango, banana and others. Lead UF researcher on laurel wilt pathogen and control in avocado.



Christopher Ranger, Entomology, USDA-ARS, Wooster, OH

The core of his research program uses principles of chemical ecology and plant-insect interactions to exploit biological weaknesses and develop novel strategies for managing horticultural insect pests, particularly ambrosia beetles.



Jeffrey Rollins, Plant Pathologist, Dept. of Plant Pathology, Gainesville, FL

Research explores the basic molecular mechanisms underlying fungal pathogenesis and development. The goal is to understand how fungi infect their hosts which may provide insights into their control.



Paul Rugman-Jones, Project Scientist/Entomologist, University of California-Riverside, CA

Working in lab of Richard Stouthamer, Prof. Entomology, UC-Riverside. Research focus on biology and behavior and control of the Polyphagous and Kuroshio Shot Hole Borers which vector *Fusarium* sp. which causes Fusarium Dieback in avocado and numerous other native and non-native host plants.



Bruce Schaffer, Ecophysiology – Tropical/Subtropical Crops, TREC, Homestead, FL

Research directed at understanding how plant physiology is affected by biotic (insects, diseases) and environmental stresses. Lead UF researcher on understanding rootstock – scion laurel wilt pathogen interactions.



Lukasz Stelinski, Entomologist, CREC, Lake Alfred, FL

Basic and applied research focus includes insect behavior and ecology, development of behavior modifying chemicals (repellents/attractants), and biocontrol of tree fruit pests.

Nov. 4th, 2016 (Friday) LW Field Tour

Time: 9AM – Meet at TREC by 8:45AM

Location – Tropical Research and Education Center
18905 SW 280 St.
Homestead, FL 33031-2101
Tel: 305-246-7000

Tentative Agenda

Nov. 4, 2016; Friday

Field day for guest participants from out-of-town

9:00AM	FIU canine	Visit LW affected grove for canine talk/demonstration
10:00AM	Avocado tree destruction	See demonstration
11:00AM	Injection Infusion	Demonstrations
12:00PM	Lunch	On your own
2:00PM-3:30PM	LW affected grove	Stumping or alternative, trenching
		Trapping

For out-of-town participants flying into Miami International Airport.

Driving directions: Take 836 West to Florida Turnpike South. Take exit 5 off of Turnpike and head west (right) onto SW 288 St. (Biscayne Drive). At the corner of SW 288 St. and SW 187 Ave. (Redland Road) go left. Take a right-hand-turn for the entrance to the Miami-Dade County Extension building.

Suggested hotel accommodations

Courtyard Marriott Miami Homestead
2905 NE 9th St.

Homestead, FL 33033

Tel: 305-257-4333

Tel: 1-888-236-2427

Website: <http://www.marriott.com/hotels/travel/miahs-courtyard-miami-homestead/> or www.marriott.com

Hampton Inn and Suites – Miami South Homestead
2855 NW 9th St.

Homestead, FL 33033

Tel: (country code +1) 305-257-7000

Tel: 1-800-426-7866

Website: <http://hamptoninn3.hilton.com/en/hotels/florida/hampton-inn-and-suites-miami-south-homestead-HSTFLHX/index.html> or <http://hamptoninn3.hilton.com/en/index.html>

Holiday Inn Express and Suites
35200 South Dixies Highway

Florida City, FL 33034

Tel: (country code +1) 305-247-3414

Tel: 1-800-465-4329

Website: https://www.ihg.com/holidayinnexpress/hotels/us/en/florida-city/fcffl/hoteldetail?cm_mmc=GoogleMaps- -EX- -USA- -FCFFL or <http://www.ihg.com/holidayinnexpress/hotels/us/en/reservation>

Best Western – Gateway to the Keys

411 South Krome Avenue

Florida City, FL 33034

Tel: (country code +1) 305-246-5100

Website: http://book.bestwestern.com/bestwestern/US/FL/Florida-City-hotels/BEST-WESTERN-Gateway-to-the-Keys/Hotel-Overview.do?iata=00171880&propertyCode=10254&cm_mmc=BL- -Google- -GMB- -10254

Other accommodations may be found at: Hotels.com <https://www.hotels.com/>

Information about Homestead may be found at: <http://www.cityofhomestead.com/>

Information about Florida City may be found at: <http://www.floridacityfl.gov/>

-see below for registration form-

REGISTRATION FORM

Avocado Laurel Wilt Summit

November 3, 2016 (Thurs.) Summit meeting at Miami-Dade Co. Extension Auditorium

Location: Miami-Dade County Extension
18710 SW 288 St.
Homestead, FL 33030-2309
Tel: 305-248-3311

Time: Program is from 8:00AM-5:00PM (onsite registration begins at 7:00AM)

Your name: _____

Email address: _____

Cellphone number: _____

Telephone number: _____

Name(s) of participants (those registering) – PLEASE PRINT

1	
2	
3	
4	
5	

- Early registration for Summit (before October 24, 2016) is \$25/person
- Late registration (after October 24, 2016) for Summit is \$40/person.
- On-line registration is also available at Eventbrite (<http://www.eventbrite.com/e/avocado-laurel-wilt-summit-tickets-27468098823>)

Please enclose a check made out to *The University of Florida* and mail (or deliver) it to TREC, Laurel Wilt Summit, 18905 SW 280 St., Homestead, FL 33031. Thanks.

The November 4th LW Field tour is free. Indicate the number of participants _____.

Contacts: Jeff Wasielewski at 305-248-3311 x.227 or 305-282-7526 or jwasielewski@ufl.edu or Jonathan Crane, at 786-217-9271 or 786-255-5878 or jhcr@ufl.edu