



Highlands Citrus E-Talk

4509 George Boulevard, Sebring, Florida 33875 – (863) 402-6540

The Highlands County Citrus Extension Newsletter

Vol. 4 No. 3

February 17, 2011

“Highlands Citrus Grower Forum”

Wednesday, February 23, 2011, 8:30 a.m.
B J Harris, Jr. Agricultural Center,
Conference Room # 2



Topics:

- “Take Home Messages” from the International HLB Conference
- Highlands County CHMA’s (Area-wide sprays) Report

There will be a continental breakfast beginning at 8:00 a.m. with coffee, O J, etc.

We will end about 9:30 a.m.

This is a GREAT opportunity to share information among us growers and benefit from what we each have learned.

Highlands Citrus Grower Tour

Southwest Fla. Research & Education Center - Immokalee

Wednesday March 2, 2011

9:30 a.m. to 2:30 p.m.

Topics:

1. Citrus Nutritional Programs to Mitigate HLB Impacts
2. Research Trials to Control Asian Citrus Psyllids
3. Demonstration Plots for New Production Systems
4. Visit – Maury Boyd Grove

Schedule

7:30 a.m. Leave Bert J. Harris Ag Center

9:15	Arrive SWFREC
9:30	Visit Plots
Noon	Lunch at SWFREC
1:00 p.m.	Leave to tour Maury Boyd Grove
2:30 p.m.	Return to Highlands County

Travel:

I will leave from the Ag Center. I have arranged a 10 passenger van for those who want to ride with me. Others are encouraged to “car pool”.

You do not have to leave from the Ag Center or ride in the van.

You can leave from where-ever you want and drive directly to the SWFREC. You just need to be there by 9:15.

The only caveat is that once we are at the Research Center, we will need to bunch up in as few vehicles as possible, since we cannot take a “Parade” of vehicles out to the plots on the center facility, nor in to Maury Boyd’s Grove.

Reservation: **It is IMPERATIVE I know who will be going on the tour including who wishes to ride with me in the van. I need to know if you are willing to have someone else ride with you. I also need to know who is attending to plan lunch.**

Only six people have signed up so far. I would really appreciate your letting me know if you intend to go.

Please call me by February 24th at: 402-7150 or email me at plowboy@ufl.edu and make your reservation.

F L O R I D A C I T R U S G R O W E R S ’ I N S T I T U T E

**Wednesday [April 6, 2011](#) beginning at 8:30 AM at the
Performing Arts Center Auditorium at
South Florida Community College in Avon Park**

Attached is a copy of the program which includes Registration Information.

The Program is superb and covers a lot of territory. CEU’s are available for both RUP and CCA. This year’s program will focus on HLB (Huanglongbing), management of the Asian Citrus Psyllid (ACP), progress in genomics and cultural management.

Preregistration is required using the registration form in the attached program flier or by emailing the required information to Jane Wilson at mjw@crec.ifas.ufl.edu.

Flower Bud Induction Advisory

Dr. Gene Albrigo's latest flower bud advisory indicates that full bloom dates for the first wave of flower buds are about February 19 to 27 from Sebring south including the flatwoods. Central and northern areas should have full bloom around March 3 to 7. The second wave of bloom will occur around March 1 to 9, which is 2 to 3 days earlier than the model projected in January.

This is a tool one could use to predict the next round of sprays to control psyllids. **The largest flush is the spring flush and nymphs hatch from eggs laid on the spring flush have the greatest potential to acquire the HLB bacterium.**

For the complete latest Flower Bud Induction Advisory, click on the following link:
<http://www.crec.ifas.ufl.edu/extension/flowerbud>.



Grower Research Report

Attached is the latest copy of the "Grower Research Report" published by the Citrus Research Development Foundation. This report is published monthly to keep you, the grower informed as to the large amount of research you have funded to find solutions to Citrus Greening, Citrus Canker, etc.

In this report they discuss the appointment of the Commercial Product Development Committee. The Commercial Product Development Committee is responsible for overseeing movement of research discoveries from the lab thru the regulatory channel and into the market. Also included, is an update on the 2010 Citrus Advanced Technology Program, and an announcement of the new directors of the CRDF which includes Bobby Barben and Marty McKenna.

Agricultural Plastic Film Waste Disposal

Up until now there it has been difficult to dispose of waste agricultural plastic film. The Southern Waste Information Exchange, Inc. (SWIX) has found a sustainable disposal solution for agricultural plastic film and is looking for farmers who are trying to get rid of it. SWIX has been working on the development of an end use for the film, solving the disposal issue while at the same time creating economic value. SWIX has found a way of maximizing resources, turning waste into reusable feedstock. They will contract to pick up your used film.

Anyone interested in avoiding disposal costs and making sure the film is managed properly should contact Gene Jones at gene@swix.ws or phone at (800) 441-7949.

Post Bloom Spray is Critical

The Post bloom spray is a very important spray. Here are some more facts:

1. The spring flush is the largest flush of growth account for about 60% of the new foliage each year.
2. Nymphs emerging from eggs laid by the adult psyllids on this flush, have the greatest potential to acquire the HLB bacterium. And the resulting adults can transmit the bacterium to yet uninfected limbs and trees.
3. The spring flush triggers a very robust activity of the psyllids and subsequent flushes can be increasingly robust.
4. Those growers who applied one or two dormant sprays to annihilate carry over psyllids from the previous year will find the most effective post bloom control.
5. In areas using “coordinated sprays” (area-wide [CHMA’s]) are most effective in suppressing psyllids and slowing the progress of HLB. In areas where area-wide sprays have been in use for a couple of years, psyllid populations are less than 2-3%. Re-infestation of psyllids from neighboring areas is greatly reduced when area-wide coordinated sprays are used.

Even if you are not spraying seven to ten times for psyllid control, you most likely will be applying a Post Bloom Spray for psyllid and other pests.

So the bottom line is for you to time your Post Bloom Spray to be most effective and coordinate your spray with your neighbors.

There are now seven CHMA areas designated in Highlands County. Your groves are in one of them. If you do not know which CHMA you are in contact me and I will let you know. You are going to spray anyway, why not get a bigger bang for your buck.

Tim Hurner,
Multi-County Citrus Extension Agent
Highlands County

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Highlands County Citrus Extension Program Sponsors 2010-1011

A special **THANK YOU** to all of the **Highlands Extension Citrus Program** sponsors for their monetary support. If you would like to be among them please contact Tim Hurner at (863) 402-7150 or plowboy@ufl.edu .

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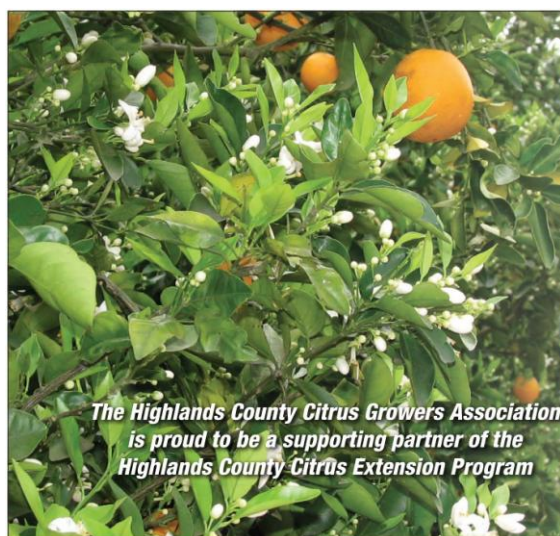


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*The Highlands County Citrus Growers Association
is proud to be a supporting partner of the
Highlands County Citrus Extension Program*



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REPORT



Update on the 2010 Citrus Advanced Technology Program

Of the 104 preproposals describing research to combat citrus disease that were recently submitted to the Citrus Research and Development Foundation, 39 invited full proposals were received by Dec. 1st and are presently under review. At the invitation of the Program Manager, some 36 individual expert reviewers volunteered to submit a written critique of these ideas. Evaluations are focused on the scientific merit and likely impact to production practices. Each of these outside reviewers supplied between 1 and 5 independent reviews depending on their area of expertise and enthusiasm for working through the holidays. This gives the Scientific Advisory Board (SAB) of the Foundation at least three independent opinions of each proposal to begin their comprehensive discussion of the current research portfolio.

Two new members were recently added to the SAB with careers in both insect-plant interactions and entomology as well as experience in extension, academic

and corporate research. The SAB will meet for three days, Feb. 7-9 and discuss, by order of each research category, the 97 progress reports for currently funded work, the reviews of each proposal and the full research proposals themselves for that category. The progress reports provide a context for the existing funded work. The outside reviews are a good starting point for in depth discussion of new ideas and in some cases the detailed examination of objectives and budgets. All of these proposals are worthy of funding given the value of the threat of infectious disease. So, the difficult work is in providing priority ranking to maximize the use of limited use of funds by matching proposals well to the objectives of our Foundation sponsorship, mindful of the impact and merit. We are very fortunate to have the participation of so many quality individuals in both the research and the peer review process. The Foundation expects to make final funding decisions by the end of February.

2011-12 Board of Directors Seated at CRDF Annual Meeting

The annual meeting of the Citrus Research and Development Foundation Board was held on January 25. At the meeting, newly reappointed Directors were seated for two year terms. The terms of the re-appointed Directors expire in December 2012.

In other action, the Board elected officers of the cor-

poration. Hugh Thompson replaces Dr. Joseph Joyce, Executive Associate Vice President for IFAS, who served as first Treasurer of the corporation. The corporation officers will serve thru December 2011.

The Board also approved continuing employment of Dan Gunter as the COO thru the current calendar year.

2011-12 Board Reappointments

Bobby Barben (FCM)

Joe Davis, Jr. (FCM)

Marty McKenna (FCM)

Bob Stambaugh (FDOC)

Ben McLean, III (FDOC).

2011 Corporation Officers

Tom Jerkins, President

Ricke Kress, Vice President

Jerry Newlin, Secretary

Hugh Thompson, Treasurer

Dan Gunter, COO

CRDF Appoints CPDC

The Board of Directors approved recommended appointments to the newly formed Commercial Product Development Committee. The appointments include Hugh Thompson, Bob Stambaugh, Jerry Newlin, Ricke Kress, Tim Anglea, Mark Colbert, Peter McClure, and Andy Rackley. Ben McLean was appointed as Chairman of the Commercial Product Development Committee in December. The Commercial Product Development Committee is responsible for overseeing movement of research discoveries from the lab thru the regulatory channel and into the market. This committee's work picks up where the research committee's work stops. The Commercial Product Development committee will work with research partners, the regulatory agencies and private companies that license and market technology.

CRDF to Contract with FFVA

The Board approved a consulting contract with the Florida Fruit and Vegetable Association (FFVA) which provides for regulatory guidance of pesticides and product registrations for the newly formed Commercial Product Development Committee. The regulatory guidance desired from FFVA will cover both new research discoveries that require approvals as well as re-registration of existing products of interest to the Florida citrus industry. FFVA will work directly with the Commercial Product Development Committee in support of their plan of work.

2nd International HLB Research Conference A Success

The 2nd International HLB Conference was a great success. There were over 400 attendees from 21 countries. The research progress evident from the 90 presentations is impressive. Many of the researchers at the meeting are supported by CRDF. Those stakeholders that want to see reports presented on grower day can find them at <http://www.irchlb.org/hlb.aspx>

Dates to Remember

February 17, 2011

Research Management
Committee Meeting

February 22, 2011

Commercial Product Development Committee
Meeting

Board of Directors Meeting

March 22, 2011

Board of Directors Meeting

Annual Progress Reports for Research Projects Available Online

As a reminder, stakeholders can track progress on all the research projects on the CRDF website. Researchers report quarterly progress and the website lets users drill down in the information to find topics of interest or see the history of reporting in any particular project. You'll find the web site very user friendly. In three clicks you'll be reviewing reports on research. Here are some of the annual reports recently filed:

LINK	TITLE	RESEARCHER	HEADLINE
	Determining the Mutual Relationship Between Low-Volume Aerial Applications for Asian Citrus Psyllid Management and the Suppression of Caribbean Fruit Fly Populations	Douglas Bournique	Mustang May Control Caribly; Experiment Should Be Repeated
	Determining the Microbiome of Healthy and Infected Phloem Tissue, & Cultivation of Ca. Liberibacter	Barry Marrs	Liberibacter Not Found In Leaf Midribs From Infected Lemon
	Identification and modeling of early responses to HLB infection to improve disease management	Abhaya Dandekar	HLB disrupts host innate immunity and carbon balance
	Correlative microscopic and molecular characterization of the microbiome in the citrus phloem tissue	Byong-Ho Kang	Callose deposition and inhibited symplastic transport in the ph

PURPOSE OF THE INSTITUTE

Citrus Greening or Huanglongbing (HLB) continues to spread throughout citrus production areas of Florida. The 2011 Florida Citrus Growers' Institute is an opportunity for Florida citrus growers to come together under a single purpose to learn about effective management of this devastating disease. Topics this year include Asian citrus psyllid management, genomics and HLB cultural management.

CONTINUING EDUCATION UNITS

Continuing Education Units (CEU's) will be offered for holders of restricted use pesticide licenses (RUP) and certified crop advisors (CCA).

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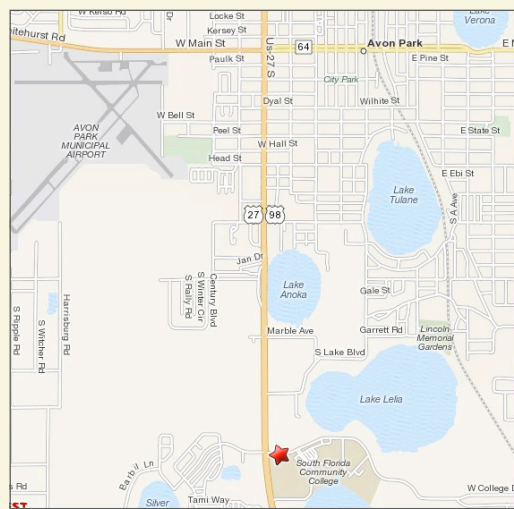
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DIRECTIONS

The South Florida Community College is located at 600 W College Drive in Avon Park.

From the South: Take U.S. Hwy. 27/98 north towards Avon Park, turn east onto W College Drive and follow the signs to the Theatre.

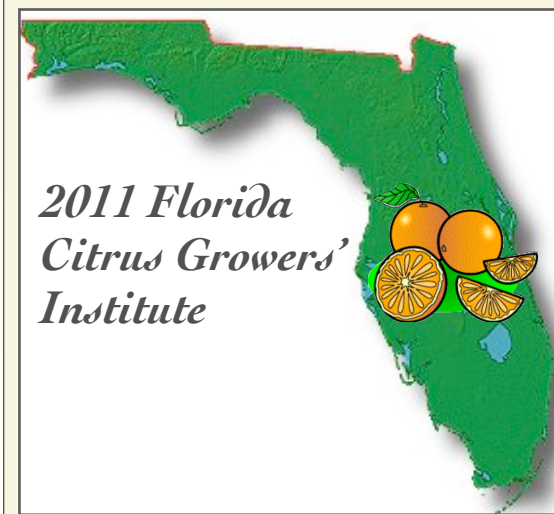
From the North: Take U.S. Hwy. 27/98 south to Avon Park, continue south to W College Drive, turn east onto W College Drive and follow the signs to the Theatre.

From the East: Take U.S. Hwy. 98 north to where U.S. Hwy. 27/98 merge south of Sebring. Proceed on U.S. Hwy. 27/98 north towards Avon Park, turn east onto W College Drive and follow the signs to the Theatre.

From the West: Take S.R. 64 east to Avon Park, turn south on U.S. Highway 27/98 to W College Drive, turn east onto W College Drive and follow the signs to the Theatre.

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FLORIDA CITRUS GROWERS' INSTITUTE



Conducted by -

**University of Florida, IFAS Extension
Citrus Research and Development
Foundation**

**South Florida Community College
Theatre for Performing Arts
Avon Park, Florida
April 6, 2011**

2011 Florida Citrus Growers' Institute

PROGRAM AGENDA

WEDNESDAY, APRIL 6, 2011

8:00 AM - Registration

8:30 AM - Welcome and Introductions

Dr. Mongi Zekri, CES, LaBelle, FL

Speaker to be Arranged

ASIAN CITRUS PSYLLID MANAGEMENT

Moderator: Dr. Steve Futch, CES, Lake Alfred, FL

9:00 AM - Five Years of Experience with Huanglongbing in Florida: Current Assessment; How did we get Here - *Dr. Swan Halbert, FDACS/DPI, Gainesville, FL*

9:20 AM - Interactions of the Asian Citrus Psyllid with *Candidatus Liberibacter asiaticus* - *Dr. Kirsten Pelz-Stelinski, CREC*

9:40 AM - Seasonal Changes in the Number of Asian Citrus Psyllids carrying *Candidatus Liberibacter asiaticus* - *Dr. Tim Ebert, CREC*

10:00 AM - Seasonal Variability in HLB Testing Data in Plant and Psyllid Samples in Florida - *Mr. Mike Irey, United States Sugar Corp., Clewiston, FL*

10:20 AM - Citrus Health Management Area (CHMA) Program Update - *Dr. Michael Rogers, CREC*

10:50 AM - Break

Moderator: Mr. Gary England, CES, Bushnell, FL

11:10 AM - HLB Management with Foliar Applications of Nutritional and Insecticides - *Dr. Phil Stansly, SWFREC*

11:40 AM - Insecticide Resistance and Susceptibility of Uninfected and Infected Psyllid - *Dr. Sid Tiwari, CREC*

12:00 PM - Effect of Soil-Applied and Foliar Insecticides on Psyllid Feeding and their Implication for HLB - *Ms. Rosana Serikawa, CREC*

12:20 PM - Lunch

GENOMICS & CULTURAL MANAGEMENT

Moderator: Mr. Tim Gaver, CES, Ft. Pierce, FL

1:30 PM - Viral Vectors and Prospects for HLB Control - *Dr. Bill Dawson, CREC*

1:55 PM - RNAi Strategy to Control Insect Pests - *Dr. Wayne Hunter, USDA/ARS, Ft. Pierce, FL*

2:20 PM - Managing HLB with Plant Nutrition - *Dr. Tim Spann, CREC*

2:45 PM - Foliar Nutritional Therapies - *Dr. Bob Rouse, SWFREC*

3:05 PM - Horticultural Lessons to Manage HLB (summary) - *Mr. Chris Oswald, CES, Bartow, FL*

3:30 PM - Adjourn

CES: County Extension Service

CREC: Citrus Research & Education Center, Lake Alfred, FL

FDACS/DPI: Florida Department of Agriculture & Consumer Services/Division of Plant Industry

SWFREC: Southwest Florida Research & Education Center, Immokalee, FL

UF/IFAS: University of Florida, Institute of Food and Agricultural Sciences

USDA/ARS: United States Department of Agriculture/Agricultural Research Service



FLORIDA CITRUS GROWERS' INSTITUTE

April 6, 2011

PREREQUISITION IS REQUIRED

Name: _____

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Please send registration to:

Jane Wilson, Citrus REC, 700 Experiment Station Road, Lake Alfred, FL 33850

Phone: 863-956-1151, Fax: 863-956-4631 or email: mjw@crec.ifas.ufl.edu