

# First Annual Citrus Health Research Forum

June 16-18, 2010 Denver, Colorado

## MEETING AGENDA

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### **Purpose:**

To launch the first annual Citrus Health Research Symposium organized around key industry-driven outcomes and aimed at ensuring a productive and thriving citrus industry in the United States in the face of serious diseases and citrus pests:

Setting the stage for discussion of desired outcomes:

**Outcome 1:** How do we keep groves currently affected by ACP and HLB productive?

**Outcome 2:** How do we prevent or slow the spread of HLB and ACP?

**Outcome 3:** Citrus groves or trees free of HLB and ACP: What genetic and horticulture strategies should be pursued?

### **Meeting Outcomes:**

1. Industry-driven outcome-based framework presented as the basis for the Citrus Health Research Forum's work
2. Discussion and dialogue on current citrus research efforts, needs, priorities and gaps associated with each of the three industry-driven outcomes.
3. Identification of research project deliverables and key milestones and outreach/extension efforts needed to achieve the desired outcomes.
4. Additional opportunities for collaboration and coordination within and across outcome areas identified, explored, and fostered.
5. The means to leverage research resources identified.
6. Participant wishes for future Citrus Research Forums identified

# AGENDA

Wednesday, June 16

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- 7:30- 8:00**      **Registration**      **Marilyn Martin**
- 8:00**      **Call to Order**      **Jane Berkow,**  
Facilitator/Meeting Moderator
- 8:05**      **Opening/Welcoming Remarks**
- Gail Wisler & MaryLou Polek, Co-Chairs, Citrus Health Science & Tech Coordinating Group
  - Citrus Growers
    - **CA:** Earl Rutz & Jim Gorden
    - **TX:** Ray Prewett & Becky Bonham
    - **FL:** Peter McClure
- 8:30**      **Overview of role envisioned in this new partnership with the Citrus Industry**      **Osama El-Lissy**  
APHIS-PPQ Director of Emergency Management
- 8:45**      **Review Forum Purpose and Outcomes, Agenda, Housekeeping**      **Jane Berkow**
- 8:55**      **National Academy of Science Report and Recommendations**      **Mary Lou Polek**  
Vice President Science & Technology  
Citrus Research Board
- Florida's Progress on the NSF Recommendations**      **Tom Turpen**  
Citrus Research Development Foundation
- 9:30**      **Comprehensive Citrus Research Inventory**      **Russ Bulluck**  
APHIS-PPQ National Science Program Leader
- 9:45**      **Break**
- 10:00**      **What can we learn from our international partners?**      **Panel:**
- What are U.S. Researchers learning about HLB in China?      **Yulu Xia**
  - What can we learn from Mexico's SCOPE program?      **Kitty Cardwell**
  - Partnership with Mexico, Belize & Central America      **Osama El-Lissy**
  - Accomplishments in Brazil      **Juliana Freitas-Astúa**
  - Discussion
- 11:00**      **Related Developments**
- Recent Development: CDFA Question re: recent discovery of non Liberibacter in Indian Curry Leaf      **Gail Wisler**

- Innovative approach and use of Biotech to reintroduce American Chestnut into the U.S.

**John Davis**

Associate Professor  
Forest Biotechnology and Molecular Biology  
University of Florida

**11:30 Priorities set by the 2008 International HLB Meeting in Orlando**

**Tim Gottwald**

ARS Research Leader  
Subtropical Plant Pathology Research Unit  
US Horticulture Research Lab

**11:45 LUNCH**

**1:00 What is Outcome-based Research?**

**Gail Wisler**

ARS National Program Leader  
Horticulture & Sugar

**1:15 Introduction to Outcome Group Chairpersons**

**Gail Wisler**

**Outcome 1:** How do we keep groves currently affected by ACP and HLB productive?

- Chairs: Deb Fravel & Mike Irely

**Outcome 2:** How do we prevent or slow the spread of ACP and HLB?

- Chairs: Kris Godfrey & Mamoudou Setamou

**Outcome 3:** Citrus groves/trees free of HLB and ACP: What Genetic and horticulture strategies should be pursued?

- Chairs: Ed Stover & Gloria Moore

**1:20 Plenary Group: Introduction to Outcome Groups Work**

**Jane Berkow**

Outcome Group Chairs will provide an overview of the Outcome Area's research: what is known, what is not known but need to know to achieve the desired outcome and key research questions or topics will be presented for an open large group discussion and dialogue.

**1:25 Outcome 1: How do we keep groves currently affected by ACP and HLB productive?**

**Key research questions that will be considered:**

- What do we need to know in order to successfully replant (or replant and manage?) groves in the presence of high levels of HLB?
- To what extent is it possible to manage HLB with nutritional programs in the long term? If so, what evidence do we have that demonstrates this is a successful long-term strategy?

**2:15 Outcome 2: Slow/no spread of HLB: How do we prevent or slow the spread of ACP and HLB?**

**Key research questions that will be considered:**

- What are the factors that mediate acquisition and transmission of HLB?

Recent Development: CDFA Question re: recent discovery of Non Liberibacter in Indian Curry Leaf

- What type of psyllid control program is needed for each affected system and how do the control programs relate to one another?

**3:05 Break**

**3:20 Outcome 3: Citrus groves/trees free of HLB and ACP: What Genetic and horticulture strategies should be pursued to manage HLB?**

**Key research questions that will be considered:**

- What genetic sources and procedures can be used to develop HLB/ACP resistant or tolerant citrus?
- Can host plant-based management techniques be used to grow citrus sustainably where HLB is present?

**Plenary Group Discussion Questions during each of the above Panel Discussions on Key Research Topics**

- What research results (e.g., negative data) have been achieved but have not yet been published that can be shared that would help us with this question?
- What can you add to our thinking about this issue?
- What are you working on that could shed some light on our question?
- What are the critical elements or limitations that need to be resolved for progress to be made?
- What research tools or techniques (needed to advance our research efforts) are not currently available? Or what techniques need to be further developed?
- What additional questions need to be asked in order to direct our energies and inform the science?

**4:10 Instructions for Breakout Sessions and some brief ground rules**

**Jane Berkow**

**4:15 BREAK to go to Breakout Sessions by Outcomes**

**4:20 Break-out sessions: In-depth discussions & dialogue on Key Research Questions/Topics**

**5:15 Adjourn**

**6:00 Poster Reception (Beer & Wine and pizza)**

**Plenary Room**

Please vote on the posters for which you would like to have the author give a short informal presentation/Q&A/discussion on the topic at the group dinner Thursday night.

**THURSDAY, June 17**

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**8:00 Go directly to Breakout Sessions continue work started on previous day re: Research Questions**

**10:00 Break**

**10:15 Opening of the Plenary Session** **Jane Berkow**

**10:20 Leveraging Resources for Research Priorities** **Ted Batkin**  
President  
CA Citrus Research Board

- CA: Citrus Research Board (CRB): **Earl Rutz**
- FL: Citrus Research & Development Foundation (CRDF): **Tom Turpen**
- TX: Citrus Research Committee: **Ray Prewett**
- National Institute of Food and Agriculture (NIFA): **Rick Meyer**
- USDA Agriculture Research Service (ARS): **Kevin Hackett**
- USDA APHIS Center for Plant Health Science and Technology: **Russ Bulluck**
- Q&A

**11:20 Importance of Integrating Extension and Outreach into Research Projects** **Mamoudou Setamou**

**11:50 Instructions re: upcoming breakout session** **Jane Berkow**

**12:00 Lunch**

**1:15 Breakout Sessions: Identify key deliverables, milestones, outreach and extension activities and explore opportunities for additional collaboration and coordination within and across Outcome Groups**  
*(Self-managed Break)*

***SUGGESTED QUESTIONS TO DISCUSS*** *(you do not need to address each and every question)*

**How do you get from where you are to the Outcomes needed by the industry? What is the road map we should follow? Focusing on the critical research needs/gaps:**

- ❖ *What are the key deliverables needed to achieve the desired outcome?*
- ❖ *What milestones do these projects need to meet in order to produce the desired outcome?*
- ❖ *What is the ideal logical sequence of research projects that will address the key research questions and ultimately lead to the outcome?*

- ❖ *In what ways are these research efforts linked one to the other within our Outcome area and/or with other Outcome Work Groups? OR*
- ❖ *In general, where are the opportunities for additional cooperation and/or collaboration that can be encouraged within our Outcome area and/or with other Outcome Work Groups? (do not need to catalogue a list here)*
- ❖ *What will we do/or what will be the consequences if we don't achieve these deliverables or outputs?*

**4:30/5:00      Adjourn**

**6:00      Group Dinner**

Winners of the Poster Session give brief presentation and Q&A. (No power point presentations)

**FRIDAY, June 18**

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**8:00      Review Agenda for the Day**

**Jane Berkow**

**8:05      Plenary Session: Groups report out Highlights of Break-out sessions**

- **Highlights from discussion**
  - Outcome 1 Summary**
  - Outcome 2 Summary**
  - Outcome 3 Summary**
- **Linkages and opportunities for collaboration and/or coordination with other Outcome Groups**

**10:00      Industry Feedback to Outcome Groups**

**Industry Panel**

**10:30      Break**

**10:45      Where do we go from here?**

**Ted Batkin**

- In what ways can this group connect with and/or contribute to the international HLB meeting in Orlando, FL in January 2011?
- How can we expand the network?
- The next annual meeting
  - What did you like about this meeting that you would like to see continued?
  - What would you like to see done differently?
  - What else would you like to see included that was not covered in this year's meeting?
  - How will the outcomes of this meeting be used to inform the S&T Coordinating Group and ARS in order to develop a strategic plan to advance the citrus research agenda and to maximize the use of available resources?

**12:00      Wrap up and close**