

Citrus Canker Research Workshop
Ft. Pierce, FL
June 20-22, 2000

Mission Statement: development of a prioritized list of citrus canker research recommendations for the
Citrus Canker Technical Advisory Task Force

DAY 0: PRE-MEETING PLANNING - MONDAY, 19 JUNE 2000

7:30 - 8:30 PM Social Hour at Radisson Beach Resort Facilities: cash bar available

8:30 - 9:30 PM Workshop Banquet at Radisson Beach Resort Facilities:

Prime rib entrée \$25; Chicken picata \$21 at workshop participants' expense
Limited to workshop participants and invited guests only

9:30 - 10:00 PM Speakers' and Moderators' Organizational Meeting

DAY 1: RESEARCH REPORTS – WHAT IS KNOWN - TUESDAY, 20 JUNE 2000

7:30 – 8:00 AM Registration

8:00 – 8:15 AM Welcome/Introduction

Mission / Goals/ Objectives

Housekeeping/Rules of the House

Tim Gottwald

Andy LaVigne

Laurene Levy, Wayne Dixon

**8:15 – 8:45 AM An Overview of Argentina's Citrus Canker Control Program with
Applicable Costs for a Similar Program in Florida - Ron Muraro,
Fritz Roka, and Thomas Spreen**

8:45 – 9:45 AM Epidemiology:

Estimating Spread of Citrus Canker in Urban Miami via

Differential GPS – Tim Gottwald, Xiaoan Sun, Tim Riley,

James Graham, Gareth Hughes

Epidemiology of Citrus Canker in Brazil with and without Asian

Citrus Leaf Miner – Armando Beramin-Filho, Lilian Amorim,

Francisco Laranejeira, Tim Gottwald

9:45 – 10:00 AM

Break refreshments provided by the Florida Citrus Industry

10:00 – 12:00 PM Survival and Control:

**Survival of *Xanthomonas campestris* pv. *citri* (Xcc) on Various
Surfaces and Chemical Control of Asiatic Citrus Canker (ACC) -**

James Graham, Tim Gottwald, Tim Riley, Jaime Cubero,

D. Drouillard

Control Studies in Brazil – Rui Leite, Jr.

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Steering Committee Co-chairman: Tim Gottwald, Laurene Levy, Wayne Dixon
Members: Richard Gaskalla, Andy LaVigne, Tom Jerkins, Dean Gabriel, Randy Niedz, Michael Hunt, Tim Schubert, Mike Carlton, James Graham, Arnold Tschanz

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**Citrus Bacterial Canker Disease: A Review on Research Developed
on Réunion Island France** - Olivier Pruvost, Christian Vernier,
Annie Couteau, Bernard Boher, Michel Nicole

Survival and Control Experiments in Argentina – Pete Timmer

12:00 – 1:00 PM

Lunch provided by the Florida Citrus Industry

1:15 – 2:45 PM

**Citrus Canker in Argentina – Control, Eradication, and Current
Management** – Blanca Isabel (Nelly) Canteros

**Methods for Detection and Characterization of *Xanthomonas
axonopodis* pv. *citri*** – Jaime Cubero, James Graham, Tim Gottwald

**Integrating the Scientific Perspective into Citrus Canker Eradication
Efforts in Florida** – Tim Schubert, Xiaoan Sun, Wayne Dixon

2:45 – 3:00 PM

Break refreshments provided by the Florida Citrus Industry

3:00 – 5:30 PM **Detection and Differentiation:**

Citrus Canker Detection and Diagnostics in Florida – Xiaoan Sun,
Tim Schubert, Wayne Dixon, Maria Peacock

**Detection of an Unique Isolate of Citrus Canker Bacterium from
Key Lime in Wellington and Lake Worth, Florida** - Xiaoan Sun,
Robert Stall, Jaime Cubero, Tim Gottwald, James Graham,
Wayne Dixon, Tim Schubert, Maria Peacock, Bruce Sutton,
Ellen Dickstein, Paul Chaloux

Analysis of Fatty Acid Profiles of Xanthomonads Pathogenic to Citrus -
Robert Stall, Ellen Dickstein, Jeffrey Jones

***Xanthomonas axonopodis* pv. *citri* Genome Project** – Jesus Ferro

Resistance:

**Detection of *Xanthomonas axonopodis* pv. *citri* Bacteria and
Differentiation of Strains** - John Hartung

**Canker Symptom Induction, Knowledge-based Resistance and Natural
Resistance Potential of Citrus** - Dean Gabriel

5:30 PM

Adjourn – Steering Committee Meeting

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DAY 2: NEW METHODOLOGIES AND APPROACHES - 21 JUNE 2000

Introductions to Moderators: Randy Niedz and Wayne Dixon

The moderators for each section will present a 10-20 minute overview of the topic followed by a general
scientists-at-large discussion.

8:00 – 9:00 AM	Remote Sensing and Spectral Analysis – Chenghai Yang and Marcus Borengasser
9:00 – 9:30 AM	Detection Technology – Mike Syvanen and Michael Kosho
9:30 – 9:45 AM	Break refreshments provided by the Florida Citrus Industry
9:45 – 11:15 AM	Citrus Breeding and Transformation – Jose Chaparro, Vincente Ferbes, Gloria Moore
11:15 – 12:00 PM	Genomics, Resistance, and GMOs – Dean Gabriel and John Hartung
12:00 – 1:15 PM	Lunch provided by the Florida Citrus Industry
1:15 – 2:00 PM	Genomics, Resistance, GMOs continued
2:00 – 3:15 PM	Citrus Canker Epidemiology – Methodologies and Approaches - Armando Bergamin and Gareth Hughes
3:15 – 3:30 PM	Break refreshments provided by the Florida Citrus Industry
3:30 – 4:30 PM	Chemical Control Methods —Ann Anderson and Pete Timmer
4:30 – 5:30 PM	Biological and Cultural Control Methods —Rui Leite and Tim Schubert
5:30 PM	Adjourn – Steering Committee Meeting

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DAY 3: ESTABLISH RESEARCH PRIORITIES - THURSDAY, 22 JUNE 2000

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| 8:00 – 10:00 AM | Discussion and Initial Development of “Take Home Goal”:
Science panel interaction only. Development of a prioritized list of research recommendations for the Citrus Canker Technical Advisory Task Force - moderated by Tim Gottwald, Laurene Levy, and Wayne Dixon |
| 10:00 – 10:15 AM | Break refreshments provided by the Florida Citrus Industry |
| 10:15 –12:00 PM | Continuation of Developing Research Priorities List |
| 12:00 – 1:15 PM | Lunch provided by the Florida Citrus Industry |
| 1:15 – 2:45 PM | Audience Question/Answer Session – Moderators Steve Poe – Andy LaVigne |
| 2:45 – 3:00 PM | Break refreshments provided by the Florida Citrus Industry |
| 3:00 – 4:00 PM | Finalizing Research Priorities List
Science panel interaction only |
| 4:00 PM | Adjourn – Meeting of Steering Committee |

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Registration: Checklist for invited speakers, moderators, and others. Public Seating will require name and address of attendees.

Breaks and Lunches: Citrus Industry will provide mid-day breaks and lunch to attendees.

Audience Question/Answer Session: 3X5 cards will be available for meeting attendees from 8:00 AM 6/20 to 12:00 PM 6/22. Questions pertinent to research issues are allowed. Questions regarding current program policies and procedures will not be allowed. Members of the Steering Committee will combine duplicate questions. The final stack of cards will be randomly shuffled at the beginning of the Q/A Session. Questions will be read aloud by the moderators and answered by the appropriate scientist(s). At the end of the allotted 2.5 hrs session no further questions will be read from any remaining cards.

Security: The meeting will be held on federal property.

Format of the Workshop: Workshop participants must understand that there will be an environment conducive to frank and candid scientific discussions. Impediments must be identified and effectively solved.

Transcription of Workshop: Professional transcriber will record the workshop proceedings.

Proceedings of Workshop: An internet-compatible (Acrobat Reader file in pdf) proceedings will be published and made available.

Lodging: Radisson Beach Resort, North Hutchinson Island (Ft. Pierce).

Notes to Media Representatives: An information table will be available in the lobby of the meeting facilities. Cameras, video-recorders, tape recorders and similar electronic equipment will not be allowed in the workshop's meeting room. Notes may be taken on paper. A court reporter will record the workshop's proceedings. A copy of the transcript will be available on the Florida Department of Agriculture and Consumer Services.

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