

# Mechanical Harvesting Field Day & Workshop

April 22, 2009

Southwest REC

Immokalee, FL





- **Abscission**
- **Machine Enhancement**
- **Horticulture**
- **Processor Issues**
- **Economic Studies**
- **Industry Education**





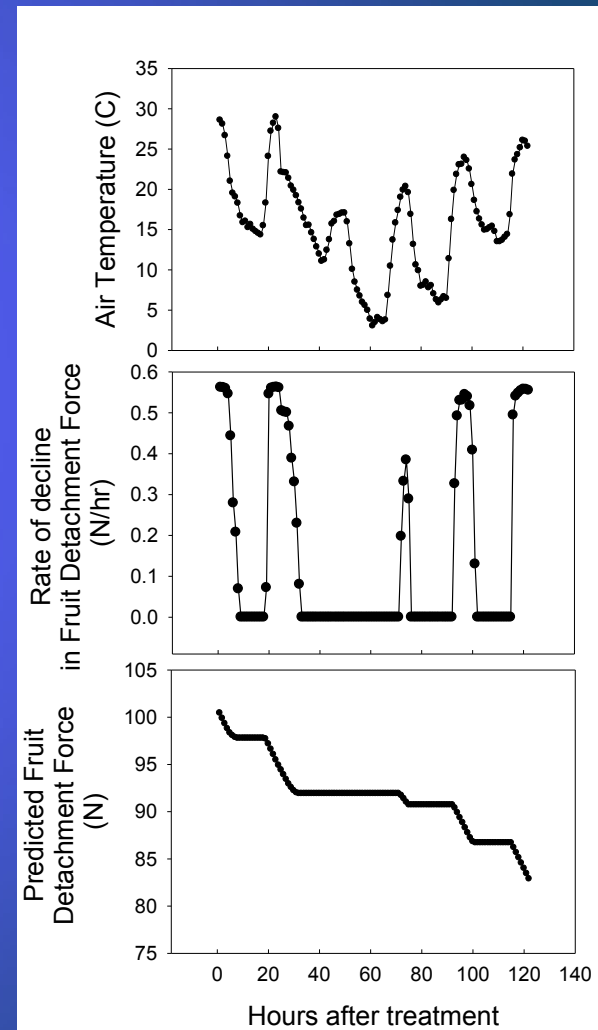
1. Evaluation of compounds
2. CMNP Management
3. Late Season 'Valencia'
4. Registration (CMNP) support

**Jackie Burns**

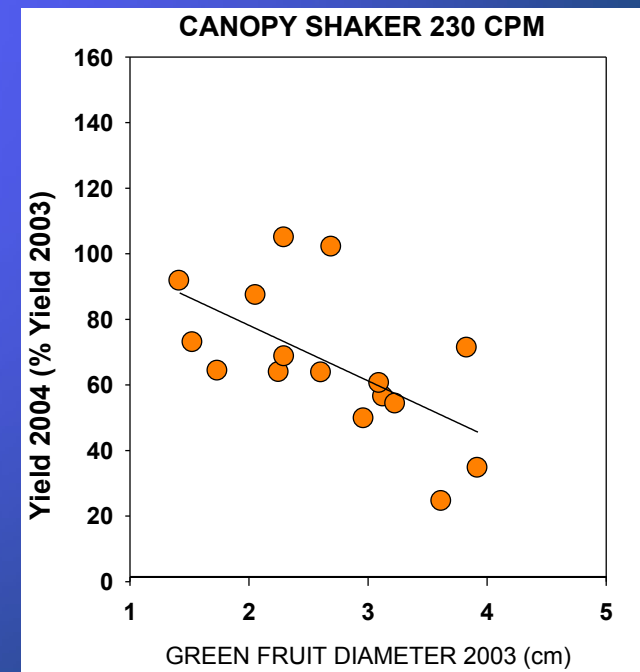
**Bob Ebel**



- **CMNP Management**
  - application parameters
  - decision model



- Late season 'Valencia'
  - recover orange fruit
  - leave green fruit
  - application parameters
  - machine operation



- Registration (CMNP) support
  - Handle technical CMNP
  - Test efficacy of new formulations
  - Interact with AgroSource & DOC

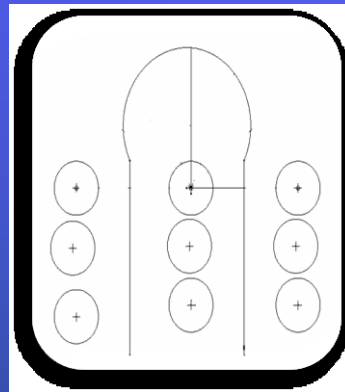




Reza Ehsani  
Tom Burks

# [Redacted Title]

- Catch Frame Improvements
- Variable rate shaking
- Yield Monitoring
- Automated guidance







**Jim Syvertsen**

**Kelly Morgan**

**Bob Ebel**

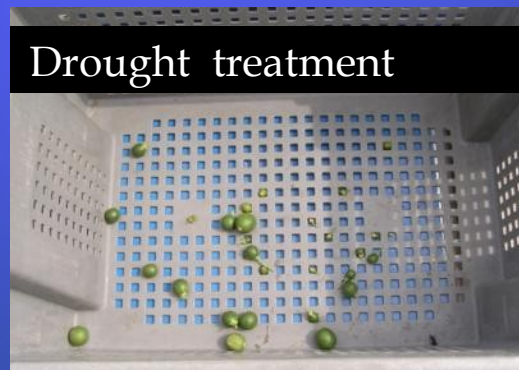
**Bob Rouse**

**Bill Castle**

- Tree health
- Delay bloom
- Drought stress
- Grove design



Mid-June





**Michelle Danyluk**

**Kelly Morgan**

**Jackie Burns**

**Tim Spann**

**Fritz Roka**





- **Microbial evaluations– Michelle Danyluk**
- **Fruit splitting – Kelly Morgan**
- **Abscission effects – Jackie Burns**



- Harvest debris – Tim Spann
  - mechanical v. hand
  - with v. without de-stemmer
  - with v. without abscission



How much trash  
in a hand-picked  
load?

- 
- **Harvest scheduling/ load allocation –  
Fritz Roka, Tom Burks**
    - 24-hr harvesting
    - logistical coordination





- 
- **Harvest Decision Tool**
  - **Gleaner Productivity**
  - **Commercial Yield Analysis**
  - **Abscission Cost/Benefit Analysis**

**Fritz Roka**

**Website: <http://citrusMH.ifas.ufl.edu>**

- Videos & Photos
- Outline of IFAS MH research
- Publication Catalog (current and historical)

## **Trade journal articles**

- Citrus Industry series
- Florida Grower

**Field Days – April 22, 2009**



# Investigator contacts:

- Tom Burks
- Jackie Burns
- Michelle Danyluk
- Bob Ebel
- Reza Ehsani
- Kelly Morgan
- Fritz Roka
- Tim Spann
- Jim Syvertsen

[tburks@ufl.edu](mailto:tburks@ufl.edu)

[jkbu@ufl.edu](mailto:jkbu@ufl.edu)

[mddanyluk@ufl.edu](mailto:mddanyluk@ufl.edu)

[rcebel@ufl.edu](mailto:rcebel@ufl.edu)

[ehsani@ufl.edu](mailto:ehsani@ufl.edu)

[ktm@ifas.ufl.edu](mailto:ktm@ifas.ufl.edu)

[fmroka@ufl.edu](mailto:fmroka@ufl.edu)

[spann@ufl.edu](mailto:spann@ufl.edu)

[jmsn@ufl.edu](mailto:jmsn@ufl.edu)

