

# Doctor of Plant Medicine Students: Helping to Deliver IPM to Diverse Clientele

Heidi N. HansPetersen

Doctor of Plant Medicine Student; IPM Florida



# Florida is DIVERSE...

- Three distinct climatic zones
- US leading producer of Vegetables, Turf, Ornamentals, Citrus, Beef.
- Burgeoning greenhouse production industry
- Sentinel state— Port of entry for countless pests, diseases, and exotic weeds



***IPM Florida*** provides statewide, interdisciplinary and inter-unit coordination and assistance for UF, IFAS integrated pest management research, extension and education faculty



# Diverse Clientele

- Extension agents & specialists
- Agricultural producers
- Governmental institutions
- Professional societies
- Public





# IPM Florida ~ Building Through Partnerships

- Partnerships
- Synergy
- Opportunity
- Ownership
- Program recognition



# Delivery

- Extension meetings
- Scientific meetings
- Consultation
- Website
- Publications



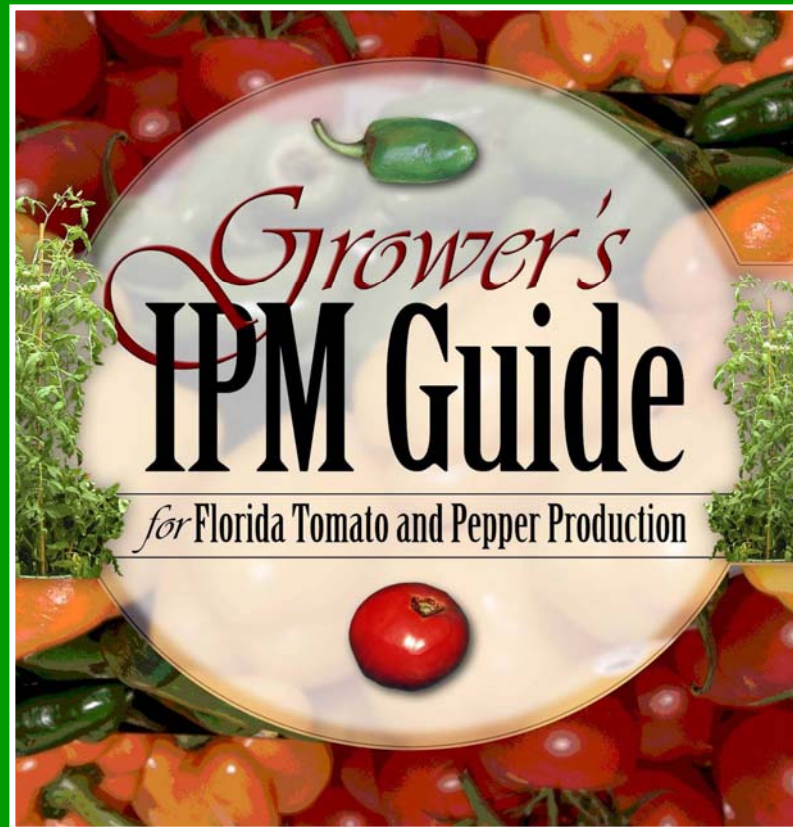
# My experience as a Plant Medicine Student delivering IPM

- Developing an IPM Tool for Florida Vegetable growers.
- Developing a state-wide IPM grants program



# Developing a Management Guide

- I. Collaborative*
- II. Comprehensive*
- II. Creative: a model for future UF/IFAS IPM Guides*





# **Developing a Management Guide**

## ***I. COLLABORATIVE:***

**Partnered with Industry representatives, growers, and crop advisors to determine the needs of Florida's Tomato & Pepper Producers.**

# ***Grower's IPM Guide for Florida Tomato & Pepper Production***

## **SURVEY OF GROWER NEEDS**

- ***Options for reducing pest management costs & risks***
- ***Information on conserving natural enemies***
- ***Practices for preventing crop threatening pests & diseases***
- ***Resistance management techniques***
- ***Assistance in establishing accurate damage thresholds***
- ***Alternatives for Methyl Bromide***
- ***A comprehensive resource for making pest management decisions***



## ***II. Collaborative***

- **Linked Extension Specialists, Researchers and County Agents across disciplines throughout the University.**
- **Developed Table of Contents.**
- **Selected chapter editors & teams of expert authors.**





# ***Grower's Guide for Florida Tomato & Pepper Production***

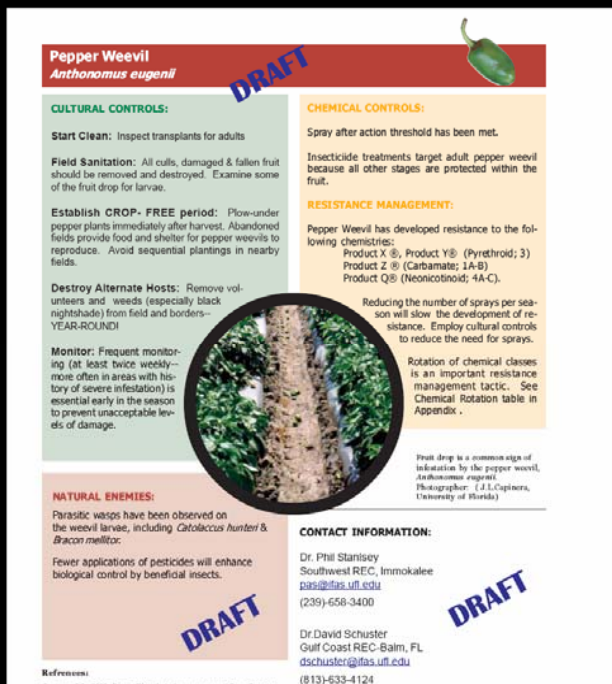
## ***I. COMPREHENSIVE:***

- **Chapter 1. IPM in Florida**
- **Chapter 2. Production**
- **Chapter 3. Soil & Nutrient Management**
- **Chapter 4. Pest Management**
- **Chapter 5. Disease Management**
- **Chapter 6. Weed Management**
- **Chapter 7. Biological Control**
- **Chapter 8. Cultural Control**
- **Chapter 9. Chemical Control**



# III. Creative: a model for future IPM Guides

- Template system for authors
- High quality, new photographs, DDIS
- Pocket field guide & IPM Screen Saver
- Self-assessment tool to be a foundation for eco-labeling



# The UF, IFAS IPM Grants Program: Linking Extension Specialists and Agents





✧ In two years UF IFAS IPM grants have awarded nearly \$200,000 and funded 40 IPM projects across the state of Florida.

✧ Proposal requests range between \$1,000-\$10,000

✧ The average award is \$5,000

*Photos by Eric Zamora &  
Robyn Koestoyo*

# National IPM Objectives

*Projects must satisfy at least one of the following national IPM objectives:*

1. **Safeguard human health and the environment**
2. **Show benefits achieved through IPM strategies or technologies**
3. **Disseminate IPM knowledge**
4. **Enhance stakeholder collaboration.**



# People & Communities

## Projects & Partners

- School IPM
- Landscape Maintenance Training
- Residential Termite Monitoring
- Mosquito Abatement
- Florida Yards & Neighborhoods
- Master Gardeners
- IPM Education & Training
- Mole Cricket Biological Control





# **The Biological Control Brain Bowl**

**2004-2005 & 2005-  
2006**

**William Overholt, Ron Cave,  
Robin Koestoyo, Dan  
Culbert, Ed Skvarch , Ken  
Gioeli, Christine Kelly-  
Begazo & Roxanne  
Rutledge**

**Photos provided by Robyn  
Koestoyo**



# **Mosquito Control**

**M.A.S.H.**

**Mosquito Abatement for Safety & Health  
Volunteers Training & Support**

**2004-2005**

**Ralph Mitchell**

**Chemical Control of Mosquitoes: A Guide to  
Understanding the Safety, Mode of Action,  
and Proper Timing of Application of the  
Products used in Mosquito Control**

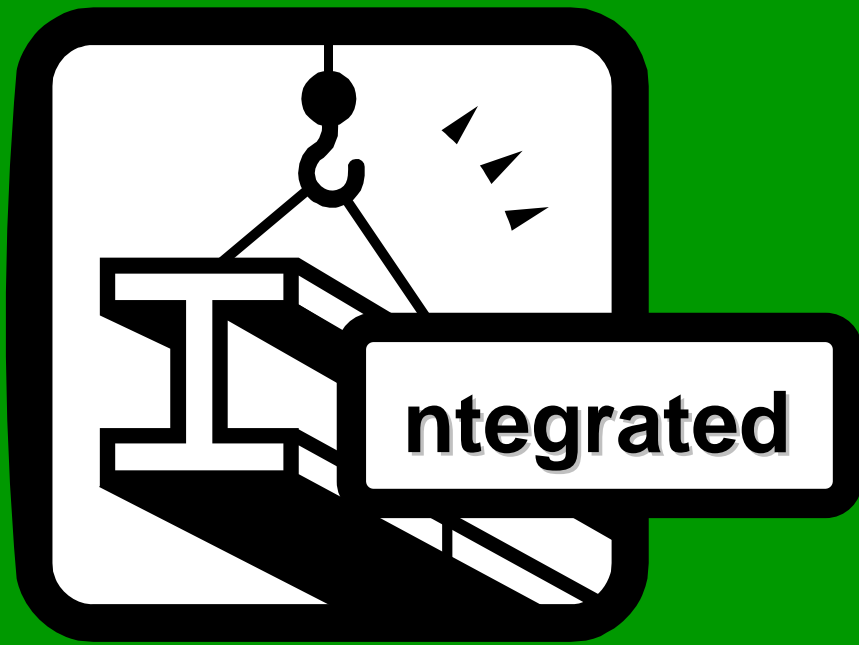
**2004-2005**

**Roxanne Rutledge-Connelly**

# IPM Florida ... at your service

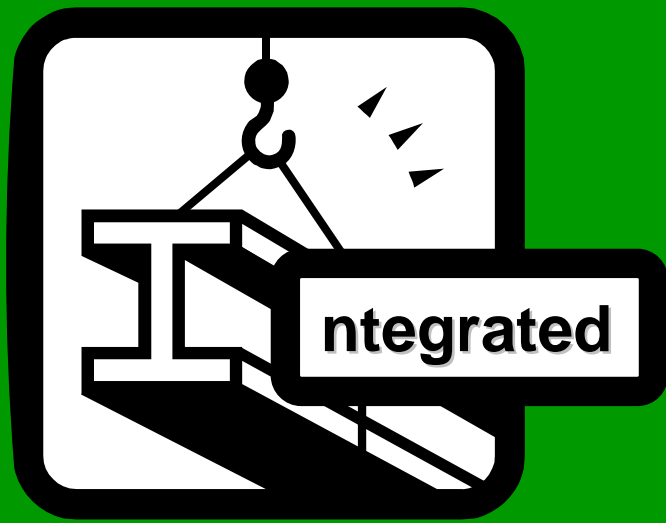
- ❧ IPM Florida connected agents and researchers together who were working on similar projects for collaboration.
- ❧ IPM Florida staff assisted agents & researchers with proposals and projects.
- ❧ Visit the IPM Florida website for more IPM grant ideas. <http://ifas.ufl.edu>





## IPM & DPM

- *To make whole by bringing all parts together.*



# Doctor of Plant Medicine students are trained to:

- Approach plant health from multiple angles.
- Employ multiple techniques to manage problems.

*To make whole by bringing all parts  
together. . .*

**DPM professionals are well suited to deliver IPM into the hands of diverse clientele.**

- 1. Multi-lingual: *Fluency in the language & concepts of multiple disciplines.***
- 2. Applied Science: *Bringing research into the hands of those that can use it!***

