

**PROGRAM OF THE 95th ANNUAL MEETING of the
FLORIDA ENTOMOLOGICAL SOCIETY**

July 22 – 25, 2012

SUNDAY, JULY 22, 2012

3:00PM -- 8:00PM- Registration - Gallery

Gallery/Lobby

3:00PM - 6:00PM Office- Presentation collection - slide preview..... Bonito

3:00PM-6:00PM Poster Display set-up..... Marlin

7:00PM-8:00PM Executive Board Meeting..... Bonito

MONDAY MORNING, JULY 23rd

8:00AM-12:00PM Registration (contd.)..... Gallery

8:00AM-8:10AM Welcoming remarks... Gary Leibe..... Sailfish

8:10AM-8:30AM Presidential address... Gary Leibe..... Sailfish

8:30AM-9:20AM Pioneer lecture..... Sailfish

Pioneer Lecture 2012 Pioneer Lecturers: Norm Leppla

Honoree: Dr. Howard Vincent Weems, Title - Dr. Howard Vincent Weems, Jr.:

A Dynamic Pioneer in Florida Entomology.

9:20AM-12:00PM Office/slide Preview..... Bonito

9:20AM-6:00PM Poster Display..... Marlin

9:20AM-9:40 AM Coffee Break..... Gallery

9:30AM-10:45AM Business Meeting..... Amberjack

9:45AM-11:45AM Symposium- *Tamarixia radiata* & Citrus Psyllids..... Sailfish

11:45AM-12:45PM Luncheon -Graduate students..... Dolphin

11:45AM-1:00PM Lunch on Own

MONDAY AFTERNOON, JULY 23rd

1:30PM-5:00PM Registration (contd.)..... Gallery

1:00PM-5:00PM Office/slide Preview..... Bonito

1:00PM-3:17PM Student paper competition Masters..... Pompano

2:00PM-4:30PM Symposium-IPM in urban landscapes..... Amberjack

3:20PM-3:40PM Coffee break..... Gallery

3:30PM-5:35PM Student paper competition Ph.D..... Pompano

6:30PM-8:30PM Reception/Mixer The Terrace

We gratefully acknowledge our sponsors: Bayer Environmental Science, Chemtura AgroSolutions,
Dow AgroSciences, and DuChene Accounting

TUESDAY MORNING, JULY 24th

7:00AM-8:00AM Past presidents' breakfast..... Hotel Restaurant

8:00AM-12:00PM Registration (contd.)..... Gallery

8:00AM-12:00PM Office/slide Preview..... Bonito

8:00AM-11:35AM Symposium: Native or Invasive Florida Harbors Everyone..... Amberjack

8:00AM-9:45AM Symposium: Careers in Industry..... Pompano

9:00AM-12:00PM Poster session..... Marlin Room

10:00AM-10:20PM Coffee break..... Gallery

10:30AM-12:00PM Symposium: Your Apps, Your Data, Your Legacy..... Pompano Room

12:00PM-2:30PM Awards luncheon..... Sailfish

TUESDAY AFTERNOON, JULY 24th

2:30PM-5:00PM Registration (contd.)..... Gallery

2:30PM-5:00PM Office/slide Preview..... Bonito

2:30PM-5:00PM Poster session (contd.)..... Marlin

2:30PM-5:20PM Symposium: Bob Heath Amberjack

2:30PM-5:30PM Submitted Papers Session 1..... Pompano
3:50PM-4:10PM Coffee break..... Gallery

WEDNESDAY MORNING, JULY 25th

8:00AM-10:00AM Registration (contd.)..... Gallery
8:00AM-9:30AM Office/slide Preview..... Bonito
8:00AM-10:30AM Symposium-Center for Systematic-Howard Weems..... Amberjack
8:00AM-10:30AM Submitted Papers Session 2..... Pompano
9:05AM-9:20AM Coffee break..... Gallery
10:40AM Adjourned

Sunday Afternoon, July 22

3:00 – 6:00 PM - Bonito room

OFFICE/PRESENTATION PREVIEW - Collection of Presentations

3:00 - 6:00 PM - Poster Setup - (Marlin Room)

3:00 - 8:00 PM REGISTRATION

Registration Desk in Gallery

7:00 - 8:00 PM - Bonito Room Executive Board Meeting -

Monday Morning, July 23

9:20 AM– 5:00 PM - Bonito room

OFFICE/PRESENTATION PREVIEW - Collection of Presentations

8:00 AM– 5:00 PM

REGISTRATION

Registration Desk - Gallery

8:00 - 9:20 AM Sailfish

General Session

8:00 AM

Introduction: Gary Leibee, President, Florida Entomological Society

8:10

President's Address: Doctor of Plant Medicine/Health - A professional degree for IPM - Entomological aspects. . Gary Leibee. Institute of Food and Agricultural Sciences, Mid-Florida Research and Education Center, 2725 Binion Road, Apopka, FL 32703-8504

8:30 - 9:20 AM

FES Pioneer Lecture Honoring Dr. Howard Vincent Weems, Jr.: Dr. Howard Vincent Weems, Jr.: A dynamic pioneer in Florida Entomology. Norman. C. Leppla and Harold. A. Denmark. PO Box 110620 Bldg. 970 Natural Area Drive Gainesville, FL 32611.
ncleppla@ufl.edu

9:20-9:40 AM - Gallery

Coffee Break

Monday, 9:30 - 10:45 AM - Amberjack room

Business Meeting

Monday, 9:20 AM- 5:00 PM - Marlin room

Posters Session 1 - Authors present from 2:00 to 3:00 PM - Posters Down by 6:00 PM

[DSP 1] **New simple methods for studying hemipteran stylets, bacteriomes and salivary sheaths in host plants.** El-Desouky Ammar and David G. Hall. USDA-ARS, Subtropical Insects Research Unit, USHRL, Fort Pierce, FL. 45945. eldammar@hotmail.com

[DSP 2] **Life history of pink hibiscus mealybug on *hibiscus rosa-sinensis* cultivars.** Luis F. Aristizábal, Catharine Mannion, Christopher Bergh and Steven Arthurs. University of Florida, Mid-Florida Research and Education Center, Apopka, FL 32703. larist@ufl.edu.

[DSP 3] **Distribution of *Bemisia tabaci* (Hemiptera: Aleyrodidae) biotypes in North America following the Q invasion.** Cindy L McKenzie, James A. Bethke, Frank J. Byrne, Joseph R. Chamberlin, Timothy J. Dennehy, Aaron Dickey, Dan Gilrein, Paula M. Hall, Scott Ludwig, Ronald D. Oetting, Lance S. Osborne, Lin Schmale, Robert G. Shatters, Jr. USDA/ARS, 2001 South Rock Road, Fort Pierce, FL 34945. cindy.mckenzie@ars.usda.gov

[DSP 4] **Common Florida weeds as hosts of the silverleaf whitefly, *Bemisia tabaci*.** Hugh A. Smith, Yankai Li and Steve Kalb. Mailing address: University of Florida IFAS/GC REC, 14625 CR 672, Wimauma, FL 33598. hughasmith@ufl.edu.

[DSP 5] **Ants associated with *Diaphorina citri* and their role in its biological control in South Florida.** Bernardo Navarrete and Jorge Peña. University of Florida, Department of Entomology and Nematology, TREC, 18905 S.W. 280 Street, Homestead, FL 33031

[DSP 6] **UV-reflective technologies for managing thrips and Tospoviruses in fruiting vegetables** Kara Tyler-Julian, Charles Funderburk, Joe Funderburk, Steve Olson, and Pete C. Anderson. NFREC, IFAS, University of Florida, Quincy, FL. Galen Frantz and Charles Mellinger (Glades Crop Care, Jupiter, FL).

[DSP 7] **Conservation biological control in pepper and eggplant.** Stuart Reitz, Mrittunjai Srivastava, and Joe Funderburk. USDA-ARS-CMAVE Tallahassee, FL.

[DSP 8] **Feeding and reproduction of the brown lacewing, *Symphorobius barberi* (Neuroptera: Hemerobiidae) on diets of Asian citrus psyllid *Diaphorina citri* (Hemiptera: Psyllidae) and flour moth *Ephesia kuehniella* (Lepidoptera: Pyralidae)** Azhar A. Khan, Jawwad A. Qureshi, Muhammad Afzal and Philip A. Stansly. University of Florida IFAS/SWFREC, Immokalee, FL 34142. azharkhan@ufl.edu.

Monday, 9:45 - 11:45 AM - Sailfish room

Symposium: *Tamarixia radiata* for Managing Asian Citrus Psyllid in Florida

Organizers: Jawwad A. Qureshi and Norman C. Leppla. University of Florida, Institute of Food and Agricultural Sciences Entomology and Nematology Department. SWFREC, Immokalee, FL and Gainesville, FL.

9:45 - Introduction, Jawwad A. Qureshi and Norman C. Leppla

9:50

[1] **History of *Tamarixia radiata* in Florida citrus** Phil Stansly, Jawwad Qureshi, Ru Nguyen and Eric Rohrig. University of Florida IFAS/SWFREC, 2685 SR 29 N, Immokalee, FL 34142. pstansly@ufl.edu.

10:10

[2] **Incidence of parasitism following augmentative releases of *Tamarixia radiata* (Hymenoptera: Eulophidae) for control of *Diaphorina citri* (Hemiptera: Psyllidae) in Florida citrus.** Jawwad A. Qureshi and Philip A. Stansly. University of Florida IFAS/SWFREC, 2685 SR 29 N, Immokalee, FL 34142. jawwadq@ufl.edu.

10:30

[3] **Mass production and evaluation of *Tamarixia radiata* for biological control in a commercial citrus operation.** Lynn Steward, Jerry Newlin, Shawron Weingarten (A Duda and Sons, Labelle, FL), Jawwad A. Qureshi (UF IFAS/SWFREC) and Philip A. Stansly (UF IFAS/SWFREC). Orange Co. Lp, 12010 N.E. Hwy 70, Arcadia, FL., 34266. LSteward@orangecofla.com

10:50

[4] **Bionomics of Asian citrus psyllid associated with orange jasmine hedges in Florida, with special reference to biological control by *Tamarixia radiata*.** David G Hall and Evan Braswell. USDA-ARS, 2001 South Rock Road, Fort Pierce, FL 34945. David.Hall@ars.usda.gov.

11:10

[5] **Mass rearing and evaluation of *Tamarixia radiata* (Hymenoptera: Eulophidae) a biological control agent of *Diaphorina citri* (Hemiptera: Psyllidae).** Trevor Smith, Abbie Fox, Eric Rohrig, and Robin Stuart. FDACS, Division of Plant Industry, Methods Development and Biological Control, 1911 SW 34th Street, Gainesville, FL 32608. Eric.Rohrig@freshfromflorida.com.

11:30 - 11:45 AM Discussion

End of Symposium

Monday, 11:45 AM – 12:45 PM - Dolphin room

Graduate student Luncheon –with Pioneer Lecturer, Norm Leppa

Monday, 11:45 AM -1:00 PM

Lunch on Your Own

Monday Afternoon, July 23

1:00 - 3:17 PM - Pompano room

Master's Student Competition

Dr. Dan Hahn, Student Activities Committee Chair

1:00 - Introduction

1:05

[6] **Comparison of different diets for development of *Olla v-nigrum* (Coleoptera: Coccinellidae) and *Ceraeochrysa cubana* (Neuroptera: Chrysopidae) in the laboratory.** Joel Mendez, Jawwad Qureshi, and Phillip Stansly. UF/IFAS Southwest Florida Research and Education Center, 2685 SR 29 N, Immokalee, Fl. 34142. mendez.1@ufl.edu

1:17

[7] **Efficacy of *Isaria fumosorosea* (= *Paecilomyces fumosorosea*) and horticultural oil on cuttings infested with the Madeira mealybug, *Phenacoccus madeirensis* Green.** Sarahlyne Guerrero, A. Hodges, L. Osborne, and P. Avery. Department of Entomology, University of Florida, Natural Area Drive PO Box 110620, Gainesville, FL 32611-0620. slynn89@ufl.edu

1:29

[8] **Anesthetization with CO2 of *Tamarixia radiata* (Waterston) (Hymenoptera:Eulophidae), parasitoid of *Diaphorina citri* (Hemiptera: Psyllidae).** Xulin Chen and Philip A. Stansly. UF/IFAS Southwest Florida Research and Education Center, 2685 SR 29 N, Immokalee, Fl. 34142. xulin527@ufl.edu.

1:41

[9] ***Cricotopus lebetis* (Diptera: Chironomidae), a fortuitous biological control agent of *Hydrilla verticillata*.** Karen Stratman, William Overholt, James Cuda, Mike Netherland, and P. Chris Wilson,. Indian River Research and Education Center, University of Florida, 2199 South Rock Road, Fort Pierce, FL 34945. kstratman@ufl.edu

1:53

[10] **RNAi-based strategy for Asian citrus Psyllid (*Diaphorina citri*) control: A method to reduce the spread of citrus greening disease.** Chloe Hawkings, Kent Morgan, Lindsay Shaffer, Charles Powell, Dov Borovsky, Ron Cave, William O. Dawson, Siddarama Gowda and Robert G. Shatters Jr., University of Florida REC, 2199 South Rock road, Fort Pierce, Florida, 34945. c.hawkings@ufl.edu

2:05

[11] **Life history and taxonomy of *E. quadrator* immature stages.** [Sara A. Brennan](#), Joe. E. Eger and Oscar E. Liburd. University of Florida, 970 Natural Area Drive, Gainesville FL 32611. sbrennan@ufl.edu.

2:17

[12] **Host preference of the brown marmorated stink bug, *Halyomorpha halys* (Stål) (Hemiptera: Pentatomidae), using economically important crops of Florida** [Ashley Poplin](#) and Amanda Hodges. University of Florida, Entomology and Nematology Department, 970 Natural Area Drive, PO Box 110620, Gainesville, FL 32611. apoplin0524@ufl.edu

2:29

[13] ***Drosophila suzukii* (Matsumura), a potentially devastating pest in Florida blueberries: Survey, trapping, and oviposition studies.** [Lindsay Iglesias](#) and Oscar Liburd. University of Florida, Bldg. 970 Natural Area Drive, Gainesville, FL 32611. liglesias@ufl.edu.

2:41

[14] **The evaluation of site-specific management for control of twospotted spider mites, *Tetranychus urticae* (Koch) in strawberries.** Ruohan Liu and Oscar. E. Liburd. Entomology and Nematology Department, University of Florida, Bldg. 970 Natural Area Drive, Gainesville, FL 32611. ruohan@ufl.edu

2:53

[15] **Description of molting process of *Coptotermes formosanus* Shiraki (Isoptera: Rhinotermitidae).** [Lin Xing](#) and Nan-Yao Su. Fort Lauderdale Research Center, Department of Entomology and Nematology, University of Florida, 3205 College Ave, Davie, FL. lxing@ufl.edu

3:05

[16] **The role of house fly behavior in resistance expression to QuickBayt.** [Krista Seraydar](#) and Phillip E. Kaufman. University of Florida, Entomology and Nematology Department, 970 Natural Area Drive, PO Box 110620, Gainesville, FL 32611. kseraydar@ufl.edu

End of Master's Competition

Break 3:17 - 3:40 - Gallery

Monday, 2:00 - 4:30 PM - Amberjack room

Symposium: IPM IN URBAN LANDSCAPES (Manejo Integrado de Plagas en Paisajes Urbanos).

Organizer: Dr. Steven Arthurs (Mid-Florida Research and Education Center, UF/IFAS).
Translation to Spanish by Luis F. Aristizábal

2:00: Introduction

2:05

[17] **Post release behavior of convergent ladybeetles in the landscape**, Steven Arthurs, Robert Leckel, Mid Florida REC, University of Florida, Apopka, FL 32703

Comportamiento de coccinélidos después de su liberación en el paisaje urbanístico

2:20

[18] **Addressing difficult invasive whitefly problems in Palm Beach County, Florida**. William L. Schall, Jr. Palm Beach County Extension, West Palm Beach, FL 33415.

Abordando los difíciles problemas de las moscas blancas invasoras en el condado d Palm Beach, Florida

2:35

[19] **Scale and mealybug control in urban landscapes in Florida**. Scott Ferguson, Atlantic Turf & Ornamental Consulting, Vero Beach, FL 32968.

Control de escamas y cochinillas en el paisaje urbano de Florida

2:50

[20] **Four against one: biological control of the cycada aulacaspis scale**. Ron Cave. Indian River REC, University of Florida, Ft. Pierce, FL 34945

Cuatro contra uno: control biológico de la escama de las cicadas *Aulacaspis yasumatsui*

3:05

[21] **South Florida landscape pests – how the public deals with new insects**. Adrian G. B. Hunsberger. University of Florida/Miami Dade County Extension, 18710 SW 288th Street, Homestead, FL 33030

plagas del paisaje del pur de Florida – como es la oferta publica con nuevos insectos

3:20 - 3:35 - Break - Gallery

IPM IN URBAN LANDSCAPES Continued

3:35

[22] **Arthropods in *Heliconia* sp. in Colombia: pests, beneficials and pest management trends**. Luis F. Aristizábal, Kadya A. Ospina, Uver A. Vallejo, Efrain R. Henao, Misael Salgado & Steven Arthurs, Mid Florida REC, Apopka, FL 32703; University of Caldas, Manizales - Colombia

Artrópodos en *heliconia* sp en Colombia: Insectos plagas, benéficos y tendencias del manejo de plagas

3:50

[23] **IPM of pest mole crickets.** Howard Frank and Norm Leppa, Entomology & Nematology Dept., Univ Florida, Gainesville, FL 32611

Maniego integrado de plagas del grillo topo

4:05-4:30 - Discussion

End of Symposium

Monday, 3:30 - 5:30 PM - Pompano room

Ph.D. Student Competition

Dan Hahn, Student Activities Committee Chair, Department of Entomology and Nematology, College of Agriculture and Life Sciences. dahahn@ufl.edu.

3:30 Introduction

3:35

[24] **Nematodes associated with fecal carton in the subterranean termite *Coptotermes formosanus*.** Paul M. Bardunias, Robin M. Giblin-Davis, and Nan-Yao Su. Fort Lauderdale Research and Education Center, 3205 College Ave. Davie, FL 33314. paulmb@ufl.edu

3:47

[25] **Acaricide resistance in Florida *Rhipicephalus sanguineus* populations.** Amanda L. Eiden, Phillip E. Kaufman, Faith M. Oi, and Robert Miller. Entomology and Nematology Dept., University of Florida, Gainesville, FL. aeiden@ufl.edu

3:59

[26] **Can twospotted spider mite damage on strawberry leaves be detected using visible/NIR reflectance spectroscopy?** T. W Nyoike, W. S. Lee and O. E. Liburd. Entomology & Nematology Dept, University of Florida, Gainesville, FL 32611. nyoiket@ufl.edu

4:11

[27] **Investigating various tactics of intercropping buckwheat with squash to increase natural enemy populations, reduce pest and disease pressure, and increase yield .** Janine Razze and Oscar E. Liburd. University of Florida, Entomology and Nematology Department, Bldg. 970 Natural Area Drive PO Box 110620, Gainesville, FL 32611. jrazze@ufl.edu

4:23

[28] **Suitability of Asian citrus psyllid *Diaphorina citri* (Hemiptera: Psyllidae) and corn leaf aphid *Rhopalosiphum maidis* (Hemiptera: Aphididae) as prey for the two-spotted ladybeetle *Adalia bipunctata* (Coleoptera: Coccinellidae).** Azhar A. Khan, Jawwad A. Qureshi, Muhammad Afzal and Philip A. Stansly. University of Florida IFAS/SWFREC, Immokalee, FL 34142. azharkhan@ufl.edu

4:35

[29] **Targeting juvenile hormone metabolic genes in the Asian citrus psyllid (*Diaphorina citri*) as a strategy to reduce the spread of citrus greening disease.** Evelien Van Ekert, D. Borovsky, C. A. Powell, R. D. Cave, R. T. Alessandro, and R. G. Shatters, Jr. University of Florida , Indian River Research and Education Center, 2199 South Rock Road, Fort Pierce, FL 34945-3138, belgica@ufl.edu

4:47

[30] **Transgenic citrus strategies for control of the citrus weevil, *Diaprepes abbreviatus* (Coleoptera: Curculionidae).** Sulley K. Ben-Mahmoud. University of Florida- IRREC, 2199 South Rock Road, Ft. Pierce, FL 34945. sbenmudi@ufl.edu

4:59

[31] **Life cycle, development and culture of *Xyleborus glabratus* (Coleoptera: Curculionidae: Scolytinae).** Gurpreet S. Brar, John. L. Capinera, Stephen. McLean and Jorge. E. Pena. University of Florida, Entomology and Nematology Department, Bldg. 970 Natural Area Drive PO Box 110620, Gainesville, FL 32611. gpsbrar@ufl.edu.

5:11

[32] **Thermal requirements and development of *Herpetogramma phaeopteralis* (Lepidoptera: Crambidae: Spilomelinae).** Nastaran Tofangrazi, Eileen A. Buss, Robert Meagher, Gabriel M. Mascarin and Steven P. Arthurs. Mid Florida Research and Education Center, University of Florida, 2725 Binion Road, Apopka, FL 32703. ntsazi@ufl.edu

5:23

[33] **Metalized Polyethylene Mulch to reduce incidence of huanglongbing and improve growth of new citrus planting.** Scott Croxton and Philip Stansly. University of Florida/IFAS Southwest Florida Research and Education Center, 2685 SR 29 N, Immokalee, FL 34142. croxtd@ufl.edu.

5:35 - End of Ph.D. Student Competition

Monday, 6:30 - 8:30 PM

Mixer - The Terrace

Tuesday Morning, July 24

7:00 AM: Past Presidents' Breakfast - Sinclair's Hotel Restaurant

8:00 – 5:00 - Bonito room

OFFICE/PRESENTATION PREVIEW - Collection of Presentations -

8:00 AM– 12:00 PM - Gallery

REGISTRATION - *Registration Desk*

Tuesday, 9:00 AM - 12:00 PM, 2:30 -5:00 PM - Marlin room

Poster Session 2 - Authors present from 2:30 to 3:30 PM - Posters Down by 6:00 PM

[DSP 9] **Temporal study of sub-populations of the exotic arboreal termites *Nasutitermes corniger* using DNA-fingerprinting technique.** Seemanti Chakrabarti and Rudolf Scheffrahn. University of Florida, FLREC, 3205 College Ave., Davie, FL-33314. seemanti@ufl.edu

[DSP 10] **Increasing communication between school personnel and neighboring agricultural landowners with Good Neighbor Practices (GNPs).** Jennifer Gillett-Kaufman, Steven Lands, David Dinkins, and Faith Oi. UF/IFAS Entomology & Nematology Department, PO Box 110620, Gainesville Florida 32611-0620. gillett@ufl.edu.

[DSP 11] **Biodiversity and community structure of Arthropods associated with *Salvinia minima* Baker.** Katherine A. Parys and [Seth J. Johnson](#). Department of Entomology, Rm 404 Life Sciences Bld, Louisiana State University, Baton Rouge, LA 70803, sjohnson@agcenter.lsu.edu

[DSP 12] **Cuban brown snail, *Zachrysia provisorio*, in Florida.** John L. Capinera. Box 110620, Entomology and Nematology Dept, University of Florida, Gainesville, FL 32611. Capinera@ufl.edu.

[DSP 13] **Chemical control of the redbay ambrosia beetle.** [Daniel Carrillo](#), Jorge E. Peña, Rita Duncan and Jonathan Crane. University of Florida, Tropical Research and Education Center, Homestead FL., 18905 SW 280 ST, Homestead, FL, 33031. dancar@ufl.edu.

[DSP 14] **The life table of *Trissolcus vassilievi* Mayr (Hym.:Scelionidae) on Sunn Pest, *Eurygaster integriceps* Puton (Hem.:Scutelleridae)** Farzaneh Kazemi Yazdi & Asieh Abolhassani. Agricultural Department, Shahre-Rey University, Tehran, Iran.

[DSP 15] **Florida State 2012 Science and Engineering Fair Florida Entomological Society Award Winner. Effects of pheromones on *Diaprepes* root weevils.** Evan C. MacKay. Vero Beach High School, 1707 16th Street Vero Beach FL 32960.

Tuesday, 8:00 AM-11:35 AM - Amberjack room

Symposium - Native or invasive: Florida harbors everyone!

Organized by: Vivek Kumar (Mid-Florida Research and Education Center, IFAS-UF), Seemanti Chakrabarti (Ft. Lauderdale Research and Education Center, IFAS-UF), Garima Kakkur (Ft. Lauderdale Research & Education Center, IFAS-UF)

8:00 Introduction

8:05

[34] **How to become a successful invader.** [Nan-Yao Su](#). Department of Entomology and Nematology, Ft. Lauderdale Research and Education Center, IFAS, University of Florida. nysu@ufl.edu.

8:20

[35] **Nematodes that ride insects: Unseen and unintended consequences of invading species.** [Robin M. Giblin-Davis](#). Fort Lauderdale Research and Education Center, University of Florida-IFAS, 3205 College Avenue, Fort Lauderdale, FL 33314-7719, USA. giblin@ufl.edu

8:35

[36] **Real time internet invasive pest identification training.** Robin M. Giblin-Davis and Amy L. Roda. Fort Lauderdale Research and Education Center, University of Florida-IFAS, 3205 College Avenue, Fort Lauderdale, FL 33314-7719, USA. giblin@ufl.edu.

8:50

[37] **Invasive termites in Florida: where did they come from and where on earth are they now?** Rudolf H. Scheffrahn. University of Florida, Fort Lauderdale Research & Education Center, 3205 College Avenue, Fort Lauderdale, FL 33314. rhsc@ufl.edu

9:05

[38] **Using GIS for analyzing and predicting the spatial distribution of termites in Florida.** Hartwig Henry Hochmair. Fort Lauderdale Research and Education Center (FLREC), University of Florida, 3205 College Avenue, Fort Lauderdale, FL 33314-7799. hhhochmair@ufl.edu

9:20

[39] **Recent invasive pests affecting tropical fruits in Florida.** Jorge E. Peña, D. Carrillo, G. Brar, R. Duncan, J.H. Crane, A. Roda and L. Stelinski. Department of Entomology and Nematology, Tropical Research and Education Center, IFAS, University of Florida, 18905 SW 280th Street, Homestead, FL 33031. jepena@ufl.edu

9:35

[40] **Who is eating your vegetables?** Dak Seal, Vivek Kumar and Garima Kakkar. University of Florida-IFAS, Tropical Research and Education Center, 18905, SW 280 St., Homestead, FL 33030. dseal3@ufl.edu

9:50

[41] **LAMP - a technique for biotype discrimination In *Bemisia tabaci*.** Aaron M. Dickey, Lance S. Osborne, Robert G. Shatters, Jr. and Cindy L. McKenzie. USDA-Horticulture Research Laboratory, 2001 South Rock Road, Fort Pierce, FL 34945. aaron.dickey@ars.usda.gov.

10:05 - 10:20-Break - Gallery

10:20

[42] **Flies and pies: Florida's livestock pests.** Phillip E. Kaufman. Entomology and Nematology Department, PO Box 110620, University of Florida, Gainesville, FL 32611. pkaufman@ufl.edu.

10:35

[43] **Invasive stinging Hymenoptera of Florida that can envenomate humans; ants, bees, and wasps.** Dr. William H. Kern, Jr. University of Florida / FLREC, 3205 College Ave., Davie, FL 33314. whk@ufl.edu

10:50

[44] **The Division of Plant Industry's role in dealing with exotic pests.** Greg Hodges. Division of Plant Industry, 1911 SW 34th Street, Gainesville FL 32608.
greg.hodges@freshfromflorida.com

11:05-11:35 - Discussion

End of Symposium

Tuesday, 8:00 -9:45 AM - Pompano room

SYMPOSIUM: Careers in Industry

Organizers: Joe Eger (Dow AgroSciences, Tampa, FL) and Scott Ferguson (Atlantic Turf & Ornamental Consulting, Vero Beach, FL)

8:00 AM-Introduction

8:05

[45] **Roles, responsibilities, and qualifications to be a research and development scientist for the lawn and garden industry.** Bryan Delp, Syngenta Crop Protection, 2973 20th St. Vero Beach, FL 32960

8:20

[46] **So, you want to be a Field Development Representative, huh.** John Paige, Bayer Environmental Science, 328 Indian Lilac Road, Vero Beach, FL 32963

8:35

[47] **Opening doors - A career in industry** – James "Shine" Taylor, DuPont Crop Protection, 6922 Jamestown Manor Dr., Riverview, FL 33578

8:50

[48] **How to prepare for a career in private industry.** Melissa Willrich Siebert, Dow AgroSciences, 753 Highway 438, Greenville, MS 38701

9:05

[49] **A Decade of Plant Medicine.** J. Stacy Strickland, University of Florida, Hernando County Extension Service, 1653 Blaise Drive, Brooksville, FL 34601, and Gary L. Leibee, University of Florida, Mid-Florida Research & Education Center, 2725 Binion Road, Apopka, FL 32703.

9:20

[50] **Agricultural consulting: A career with many hats.** Galen Frantz, H. Charles Mellinger and Christian Miller, Glades Crop Care, Inc. 949 Turner Quay, Jupiter, FL 33458

9:35 - 9:45 - Discussion

End of Symposium

10:00 - 10:20 - Break Gallery

Tuesday, 10:30 - 12:00 PM - Pompano room

SYMPOSIUM: Your Apps, Your Data, Your Legacy--Modern Information Technology Resources in Entomological Context

Organizer: Richard Mankin, USDA-ARS Center for Medical, Agricultural, and Veterinary Entomology

10:30 - Introduction - Richard Mankin

10:35

[51] **Computer and mobile-based pest identification resources.** Amanda Hodges. Southern Plant Diagnostic Network, University of Florida/ IFAS Extension, Entomology and Nematology Department, Gainesville, FL.

10:55

[52] **Introducing Windows 8; Microsoft's new touch-centric approach to computing.** Kevin Hill. Computer Coordinator, University of Florida/IFAS, Southwest Florida Research and Education Center, Immokalee, FL.

11:15

[53] **Defending against malware and other scams.** Steve Lasley. Senior Systems Programmer, University of Florida/IFAS Extension, Entomology and Nematology Department, Gainesville, FL

11:35

[54] **Legacy literature- a need for virtual libraries?** Richard Mankin. USDA-ARS Center for Medical, Agricultural, and Veterinary Entomology, Gainesville, FL.

11:55 - Discussion *End of Symposium*

Tuesday, 12:00 - 2:30 PM - Sailfish room

Awards Luncheon

2:30 - 5:20 PM - Amberjack room

Symposium: The friends and colleagues of Bob Heath consider insect traps and attractants

Organized by John Sivinski

2:30 PM

Introduction. John Sivinski.

2:35

[55] **Bob Heath: The man and the scientist..** Hernan Espinoza. Entomólogo, Fundación Hondureña de Investigación Agrícola, La Lima, Cortés, HONDURAS C. A.
hernan_espinoza@fhia-hn.org

2:50

[56] **Adventures in fruit fly attractants – Multiple phases of Bob Heath’s research to develop the food-based attractants for tropical tephritids.** Nancy D. Epsky. USDA-ARS-SHRS, 13601 Old Cutler Rd., Miami, FL 33158. Nancy.Epsky@ars.usda.gov

3:05

[57] **Bait formulations of attractants and phagostimulants for targeted, area-wide fruit fly control.** Bob Mangan. Subtropical Horticulture Research Station, 13601 Old Cutler Road, Miami FL 33158. Robert.mangan@ars.usda.gov.

3:20

[58] **Chemical ecology of the redbay ambrosia beetle (*Xyleborus glabratus*).** Paul E. Kendra, Wayne S. Montgomery, Jerome Niogret, Elena Q. Schnell, and Nancy D. Epsky. USDA-ARS-SHRS, 13601 Old Cutler Rd., Miami, FL 33158. paul.kendra@ars.usda.gov

3:35

[59] **Wood and chemistry – or how to combine Bob Heath's two passions into Entomology research.** Jerome Niogret, Paul E. Kendra, and Nancy D. Epsky. USDA-ARS-SHRS, 13601 Old Cutler Rd., Miami, FL 33158 Jerome.Niogret@ars.usda.gov

3:50 - 4:10 Break - Gallery

4:10

[60] **Revealing the elusive sex pheromone of the renowned cactus moth, *Cactoblastis cactorum* (Lepidoptera: Pyralidae): A tribute to Robert Heath.** James E. Carpenter, Stephen D. Hight, and Juan Cibrian. USDA-ARS-CPMRU, Tifton. GA 3179 jim.carpenter@ars.usda.gov

4:25

[61] **Bob Heath's research contributions to floral attractants for Lepidoptera, or "Wow, I forgot I did that work!"** Robert Meagher. USDA-ARS CMAVE, Gainesville, FL 32608. rob.meagher@ars.usda.gov.

4:40

[62] **I smell an invasive invader: using portable gas spectrometry at ports of entry.** Amy Roda, Scott Weihman, Jamal Al-Henaid, Paul Kendra, Wayne Montgomery, Elena Schnell, and Lisa Mosser. USDA, APHIS, PPQ, CPHST, 13601 Old Cutler Rd, Miami, FL 33158. amy.L.roda@aphis.usda.gov

4:55

[63] **Hormonal regulation of sexual maturity and pheromone production in Insects.** Peter Teal. USDA, ARS, CMAVE, 1600 sw 23rd Dr. Gainesville, Florida 32608. peter.teal@ars.usda.gov.

5:10 - 5:20 - Discussion - End of Symposium

Tuesday, 2:30 - 5:30 PM - Pompano room

Submitted Papers Session 1

2:30 Introduction

2:35

[64] **Field evaluation of Off! Clip-on Mosquito Repellent (Metofluthrin) against mosquitoes and ticks in Northeast Florida.** Rui-De Xue and Whitney Qualls. Anastasia Mosquito Control District, 500 Old Beach Road, St. Augustine, FL 32080. xueamcd@gmail.com

2:47

[65] **When termites change the rules of epizootics.** Chouvenc Thomas and Nan-Yao Su. Department of Entomology and Nematology, Ft Lauderdale Research and Education Center, University of Florida, Institute of Food and Agricultural Sciences, 3205 College Avenue, FLREC. Davie 33314. tomchouv@ufl.edu.

2:59

[66] **Resource competition between two fungal parasites in subterranean termites.** Thomas Chouvenc, Caroline Efstathion, and Nan-Yao Su. 3205 College Avenue, FLREC. Davie 33314. cfeftathion@ufl.edu

3:11

[67] **Fifty Years of innovation for structural fumigation with Sulfuryl Fluoride (Vikane® gas fumigant).** Ellen Thoms. Dow AgroSciences, 7257 NW 4th Blvd. #20, Gainesville, FL 32607. emthoms@dow.com.

3:23

[68] **Semiochemical - based strategies for management of yellowmargined leaf beetle *Microtheca ochroloma* in crucifer vegetable production.** Rammohan Rao Balusu. Department of Entomology, 301 Funchess Hall, Auburn University, Auburn, AL-36849. balusrr@auburn.edu.

3:35

[69] . **Trap cropping for management of the yellow margined leaf beetle (*Microtheca ochroloma* Stål) in organic cruciferous crops.** Elena M. Rhodes, Oscar E. Liburd, Henry Fadamiro, and Rammohan Balusu. University of Florida Entomology and Nematology Department, Bldg. 970 Natural Area Dr., Gainesville, FL 32611. erhodes@ufl.edu.

3:47 - 4:10 - Break - Gallery

4:10

[70] **Is *Xyleborus glabratus* the only ambrosia beetle spreading the pathogen causing the laurel wilt disease?** Daniel Carrillo, Jorge E. Peña, Rita Duncan & Randy Ploetz. University of Florida, Tropical Research and Education Center, Homestead FL., 18905 SW 280 ST, Homestead, FL, 33031. dancar@ufl.edu.

4:22

[71] **Host plants of the sugarcane root weevil in Florida sugarcane.** Ronald H. Cherry, David G. Hall, and Dennis C. Otero. Everglades Research and Education Center, 3200 E. Palm Beach Road, Belle Glade, FL 33430. rcherry@ufl.edu

4:34

[72] **Ichneumonidae (Hymenoptera) from one *Quercus* forest in Tamaulipas, Mexico.** Enrique Ruiz-Cancino, Dmitri R. Kasparyan Juana MA. Coronado-Blanco and Andrey I. Khalaim. Facultad de Ingenieria y Ciencias, UAT, Centro Universitario, 87149 Cd. Victoria, Tam., México. eruiz@uat.edu.mx.

4:46

[73] **Comparison of the study of braconids in northern and southern Tamaulipas, México.** J. M. Coronado-Blanco, E. Ruíz-Cancino and Andrey Khalaim. Facultad de Ingeniería y Ciencias, Universidad Autónoma de Tamaulipas, Centro Universitario Adolfo López Mateos 87149, Cd. Victoria, Tamaulipas, México. jmcoronado@uat.edu.mx.

4:58

[74] **Differential response to climate change of two exotic weeds and their natural enemies: Implications for biological control in Florida.** Veronica Manrique, Rodrigo Diaz, and William A. Overholt. University of Florida, Indian River Research and Education Center (IRREC), 2199 South Rock Road, Fort Pierce, FL 34945. vero72@ufl.edu.

5:10

[75] **Implementing an integrated pest management program for coffee berry borer in a specialty coffee plantation in Colombia.** Luis F. Aristizábal, Olga Lara, & Steven P. Arthurs. University of Florida, Mid-Florida Research and Education Center. Apopka, FL 32703. larist@ufl.edu.

5:22 - Discussion

5:30 End of Submitted Papers Session 1

Wednesday, July 25, 2012 -

8:00 – 9:30 - Bonito room

OFFICE/PRESENTATION PREVIEW - Collection of Presentations

8:00 – 10:00 - Gallery

REGISTRATION

Registration Desk

Wednesday, 8:00 - 10:30

Symposium: Howard Weem's - Amberjack room

Organized by - Bill Grogan FL State Collection of Arthropods , FL Dept. of Agriculture & Consumer Services, 1911 SW 34th St., Gainesville, FL 32614-7100.

William.Grogan@freshfromflorida.com

8:00 - Introduction

8:05

[76] **Howard Weems's legacy and Diptera studies at the Florida State Collection of Arthropods.** Gary Steck. FL Dept. of Agriculture and Consumer Services, Division of Plant Protection, Gainesville, FL 32614-7100.

8:25

[77] **Morphology of the larval stages of the weevil parasitoid *Lixadmontia franki*.** Teresa M. Cooper, Ronald D. Cave, and J. Howard Frank. Indian River Research and Education Center, University of Florida, 2199 South Rock Road, Ft. Pierce, FL 34945-3138. tmcooper@ufl.edu

8:45

[78] **The fascinating fly fauna of the Florida Keys (and a tip of the hat to Howard Weems, diptériste extraordinaire.** Lawrence J. Hribar. Florida Keys Mosquito Control District, 503-107th St., Marathon, FL 33050. lhribar@keysmosquito.org.

9:05 - 9:20 - Break - Gallery

9:20

[79] **Attracting and maintaining Tachinidae with flowering plants: Estimating attractiveness.** John Sivinski, Shoki Al Dobai, and Stuart Reitz. USDA-ARS, CMAVE, 1600 sw 23rd Dr., Gainesville, FL. john.sivinski@ars.usda.gov.

9:40

[80] **Relationship of Florida's cattle and equine farms from a fly's perspective.** Phillip E Kaufman. Entomology and Nematology Department, PO Box 110620, University of Florida, Gainesville, FL 32611. pkaufman@ufl.edu

10:00 - 10:30 - Discussion

End of Symposium

Wednesday, 8:00 - 10:30 - Pompano room

Submitted Papers Session 2

8:00 - Introduction

8:05

[81] **Factors influencing abundance and severity of *Bemisia tabaci* and tomato yellow leaf curl virus in West Central Florida tomatoes.** James E. Taylor and David J. Schuster. DuPont Crop Protection, 6922 Jamestown Manor Dr., Riverview FL 33578. james.e.taylor-1@dupont.com

8:17

[82] **Methods and timing of applications to manage whiteflies and TYLCV with new insecticides in field grown tomatoes.** Barry Kostyk and Phil Stansly. UF- IFAS - SWFREC, 2685 State Rd 29 North, Immokalee Florida 34142. bkostyk@ufl.edu

8:29

[83] **Asian citrus psyllid control strategies and phytoseiid mites abundance, diversity, and consequences for secondary pest populations.** Cesar Monzo and Philip A Stansly. SWFREC, 2685 State Road 29 North. Immokalee, Florida. cmonzo@ufl.edu

8:41

[84] **Effect of ACP control on citrus leafminer – Can both pests be managed simultaneously?** Moneen M. Jones and Philip A. Stansly. UF-SWFREC/IFAS, 2685 SR 29 N, Immokalee, FL 34142. mmjones2@ufl.edu.

8:53

[85] **Electroantennographic responses of the Asian citrus psyllid to various citrus volatiles.** Paul S. Robbins, Lukasz L. Stelinski and Stephen L. Lapointe. ARS, USDA, USHRL , 2001 South Rock Rd., Fort Pierce, FL 34945. paul.robbins@ars.usda.gov.

9:05 - 9:20 - Break - Gallery

9:20

[86] **Female attraction to a pheromone produced by male *Diaprepes* root weevils.** Stephen L. Lapointe, Paul S. Robbins, Rocco T. Alessandro. USDA, ARS, U.S. Horticultural Research Laboratory 2001 South Rock Road, Fort Pierce, FL 34945. stephen.lapointe@ars.usda.gov

9:32

[87] **Winter and spring application of SPLAT-CLM for control of citrus leafminer.** Craig P. Keathley, Lukasz L. Stelinski, and Stephen L. Lapointe. USDA-ARS-U.S. Horticultural Research Laboratory, 2001 South Rock Road, Fort Pierce, FL 34945-3030 craig.keathley@ars.usda.gov

9:44

[88] **Ultrastructural and behavioral studies on feeding and 'honeydew' excretion by nymphs and adults of the Asian citrus psyllid *Diaphorina citri* (Hemiptera, Psyllidae).** El-Desouky Ammar and David G. Hall, USDA-ARS, USHRL, 2001 S. Rock Rd., Fort Pierce, FL. 34945. eldammar@hotmail.com.

9:56

[89] **Plant or diet interactions are not required for stylet sheath formation in phytophagous hemipterans from six species (Suborders: Auchenorrhyncha and Sternorrhyncha).** J. Kent Morgan, Robert G. Shatters, Jr, EricaRose A. Egan, Gary A. Luzio, El-Desouky Ammar, Wayne B. Hunter and David G. Hall. USDA-ARS, U.S. Horticultural Research Laboratory, 2001 South Rock Road, Fort Pierce, FL 34945. kent.morgan@ars.usda.gov

10:08

[90] **Weed biocontrol and food web subsidies.** Philip W. Tipping. USDA-ARS, Invasive Plant Research Laboratory, 3225 College Ave, Davie, FL 33314. Philip.tipping@ars.usda.gov

10:20 - 10:30 - Discussion *End of Submitted Paper Section 2*

We thank our Sustaining and Corporate Members

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