

**FLORIDA ENTOMOLOGICAL SOCIETY  
2009 ANNUAL MEETING PRESENTATIONS**

**SUNDAY, JULY 26, 2009**

2:00 – 6:00

**OFFICE/PRESENTATION PREVIEW**

*Cypress Room*

2:00 – 6:00

**REGISTRATION**

*Registration Desk*

**MONDAY MORNING, JULY 27, 2009**

8:00 – 5:00

**OFFICE/PRESENTATION PREVIEW**

*Cypress Room*

8:00 – 5:00

**REGISTRATION**

*Registration Desk*

**GENERAL SESSION**

**Oscar Liburd, Presiding**

*Everglades Band C*

8:00

Welcoming Remarks

8:10 – 8:30

**PRESIDENTIAL ADDRESS**

*Fostering collaboration and linkages with our Latin American and Caribbean neighbors*

**Oscar Liburd, Dept. of Entomology & Nematology, University of Florida,  
Gainesville, FL.**

8:30 – 9:20

**PIONEER LECTURE HONOREE**

**[Dr. William Peters](#)**

**2009 Pioneer Lecturer: Dr. Jan Peters, Florida A&M University, Tallahassee, FL**  
*The Life and Contributions of Dr. William “Bill” Peters*

9:20 – 9:45

**Break**

9:45 – 11:00

**BUSINESS MEETING**

*Everglades Band C*

12:00 – 1:00

**LUNCH BREAK**

12:00 – 1:00

**LUNCHEON – Graduate students with Pioneer Lecturer**

*Gardens Ballroom*

**MONDAY AFTERNOON, JULY 27, 2009**

8:00 – 5:00

**POSTER DISPLAY SESSION 1** (Authors present from 2:00 – 3:00 PM; take down by 5:00 PM)

*Island Room*

DSP 1. Life histories, Morphology and Diversity in the Genus *Adaina* (Lepidoptera: Pterophoridae). **D. Matthews**, McGuire Center for Lepidoptera & Biodiversity, Florida Museum of Natural History, P.O. Box 112710, Gainesville, FL 32611

DSP 2. USDA-ARS strategies to address the imminent threat of redbay ambrosia beetle and laurel wilt disease to avocados in Florida. **P. E. Kendra**, W. S. Montgomery, E. Q. Schnell, J. Niogret, N. D. Epsky, R. R. Heath, R. J. Schnell, T. Ayala-Silva, A. W. Meerow, and M. Winterstein, USDA-ARS, Subtropical Horticulture Research Station, 13601 Old Cutler Rd., Miami, FL 33158.

DSP 3. Antennal and behavioral responses to putrescine and ammonium bicarbonate in the Caribbean fruit fly (Diptera: Tephritidae). **P. E. Kendra**, W. S. Montgomery, N. D. Epsky, and R. R. Heath, USDA-ARS, Subtropical Horticulture Research Station, 13601 Old Cutler Rd., Miami, FL 33158.

DSP 4. The small hive beetle: oviposition, longevity and intrinsic rate of natural increase on two diets. **R. T. Arbogast**, B. Torto, and P. E. Teal, Center for Medical, Agricultural, and Veterinary Entomology (CMAVE), ARS, USDA, 1700 SW 23<sup>rd</sup> Drive, Gainesville, FL 32608.

DSP 5. Analysis of expressed sequence tags and complete mitochondrial genome of the blue-green sharpshooter, *Graphocephala atropunctata*. **L. Hunnicut**, W. Hunter, J. Mozonik, North Carolina State University, 4801 Five Leaf Lane #128 Raleigh, NC 27613.

DSP 6. Novaluron: New Tool for Nitidulid Sap Beetle Management in Strawberries. **J. F. Price** and C. A. Nagle, University of Florida, Gulf Coast Research and Education Center, 14625 CR 672, Wimauma, FL 33598.

DSP 7. Phylogenetic relationships of true butterflies (Lepidoptera: Papilionoidea) inferred from elongation factor-1 $\alpha$ , COI and 16S ribosomal RNA Sequences. **M. Il Kim**, Xinlong Wan, M. Jee Kim, H. Cheon Jeong, Neung-Ho Ahn, Ki-Gyoung Kim, and Iksoo Kim, College of Agriculture & Life Sciences, Chonnam National University, Gwangju 500-757, Republic of Korea.

DSP 8. The complete DNA sequence and genome organization of the mitochondrial genome of the white-spotted flower chafer, *Protaetia brevitarsis* (Coleoptera: Cetoniidae). **M. Jee Kim**, M. Yeon Hong, M. Il Kim, B. Rae Jin, and I. Kim, College of Agriculture & Life Sciences, Chonnam National University, Gwangju 500-757, Republic of Korea.

DSP 9. Insecticidal activity of ginkgo (*Ginkgo biloba* L.) extract against brown plant hopper. **H. Burm Lee**, Chang-Jin Kim, I. Kim, Division of Applied Bioscience and Biotechnology, College of Agriculture and Life Sciences, Chonnam National University, Gwangju 500-757, Republic of Korea.

DSP 10. Bioinsecticidal potential of culture extract from *Serratia* sp. EML-SE1 against diamondback moth. **H. Uk Jeong**, H. Yeon Mun, H. Keun Oh, I. Kim and H. Burm Lee, College of Agriculture & Life Sciences, Chonnam National University, Gwangju 500-757, Republic of Korea.

DSP 11. Effects of two insect growth regulators, buprofezin and diflubenzuron, on Asian citrus psyllid, *Diaphorina citri* Kuwayama. **D. Raj Boina**, Rajinder S. Mann, P. Clayson, S. Tiwari, and L. L. Stelinski, Entomology and Nematology Department, University of Florida, IFAS, Citrus Research and Education Center, Lake Alfred, FL 33850.

DSP 12. Management of soil insect pests of sweet potato in Louisiana. **R. Story**, A. Hammond, J. Murray and T. Smith, Entomology Dept., 402 Life Sciences Bldg, LSU, Baton Rouge, LA 70803.

DSP 13. Observations on an Eriophyid Mite on Loropetalum. **G. L. Leibe**, Moh L. Kok-Yokomi, and A. L. Shober, Mid-Florida REC/IFAS/UF, 2725 Binion Road, Apopka, FL 32703-8504.

DSP 14. Update on the Citrus Greening Bibliographical Database. **H.A. Arevalo**, A.B. Fraulo and P.A. Stansly, Southwest Florida Research and Education Center, University of Florida –IFAS, 2686 SR 29N, Immokalee, FL 34142.

1:30 – 4:35

**SYMPOSIUM: West Indian Taxonomy and Biogeography**

**Organizer/Moderator: Howard Frank, Dept. of Entomology & Nematology,  
University of Florida, Gainesville, FL.**

*Caloosa B*

1:30

Introduction and instructions **Howard Frank**

1:35

1. A new antillocorine (Hemiptera: Rhyparochromidae) genus from the Neotropics.  
**Julieta Brambila** (USDA-APHIS, Gainesville, FL) and Luis Cervantes (Instituto de Ecologia, Xalapa, Veracruz, Mexico)

1:55

2. The Biogeography of Caribbean Lampyridae **Marc A. Branham**  
(Entomology/Nematology, UF, Gainesville, FL).

2:15

3. An update on the taxonomy, biodiversity and biogeography of the butterflies of the West Indies. **Jackie Miller**, McGuire Center, UF, Gainesville, FL.

2:35

4. Advances in Caribbean Orthopterology. **Daniel E. Perez-Gelabert**, Smithsonian Institution, Washington, DC

2:55 – 3:15 Break

3:15

5. Termites of the West Indies: their origins and means of dispersal. **Rudi Scheffrahn**, Ft. Lauderdale REC, University of Florida, Ft. Lauderdale, FL.

3:35

6. Sex on the beach: The evolution of male courtship structures in Caribbean tiger moths and their relatives (Arctiidae). **Rebecca Simmons**, University North Dakota, Grand Forks, ND.

3:55

7. Renaissance in West Indian faunal studies. **Paul Skelley** (Mike Thomas), Florida State Collection of Arthropods, Gainesville, FL.

4:15

8. History of butterfly exploration in Hispaniola. **Andrei Sourakov**, McGuire Center, University of Florida, Gainesville, FL.

1:30 – 4:37

**CONCURRENT SESSION: Student Paper Competition, Doctor of Philosophy and Master of Science**

**Moderator: Michael Rogers, University of Florida, CREC, IFAS, Lake Alfred, FL. Everglades A**

**Ph.D. Papers**

1:30 Introduction and instructions **Michael Rogers**

1:35

9. Development and Reproductive Potential of *Amblyseius largoensis* when feeding on the Red Palm Mite, *Raoiella indica* (Acari: Tenuipalpidae). **Daniel Carrillo**, University of Florida, Tropical Research and Education Center, 18905 SW 280th Street, Homestead, FL 33031.

1:48

10. Comparison of three sampling methods for soil surface arthropods in organic mulches. **Harsimran K. Gill**, Robert McSorley, Marc Branham, Susan E. Webb, Gaurav Goyal, and Heidi HansPetersen, Department of Entomology & Nematology, 970 Natural Area Drive, P.O. Box 110620, Gainesville, FL 32611-0620.

2:01

11. Development of ‘corn silk flies’ in alternative hosts. **Gaurav Goyal**, G.S. Nuessly, J.L. Capinera, D.R. Seal, G.J. Steck, and K.J. Boote, Everglades Research and Education Center, 3200 East Palm Beach Road, Belle Glade, FL 33430.

2:14

12. The impact of weeding on arthropod communities in pepper. **Heidi N. HansPetersen**, McSorley, R., Liburd, O. E., Chase, C. E., Hildebrand, P. E., Krueger, R. and Gill, H. K. Department of Entomology & Nematology, 970 Natural Area Drive, P.O. Box 110620, Gainesville, FL 32611-0620.

2:27

13. Evaluation of fungal pathogens as biological control agents of chilli thrips, *Scirtothrips dorsalis* (Thysanoptera: Thripidae) on pepper. **Vivek Kumar**, Dakshina R. Seal, David J. Schuster and Lance Osborne. University of Florida-IFAS, Tropical Research and Education Center, Homestead, FL 33031.

2:40

14. Feeding Behavior and Management of Flea Beetles in Southern Highbush Blueberries in Florida. **T.W. Nyoike** and O. E. Liburd, Department of Entomology & Nematology, 970 Natural Area Drive, P.O. Box 110620, Gainesville, FL 32611-0620.

2:53

15. Flower thrips (*Frankliniella* spp.) dispersal into blueberry fields over space and time. **Elena M. Rhodes** and Oscar E. Liburd, Department of Entomology & Nematology, 970 Natural Area Drive, P.O. Box 110620, Gainesville, FL 32611-0620.

3:06-3:18 Break

3:19

16. Distribution of Blueberry Gall Midge (Diptera: Cecidomyiidae) Infestation and Parasitism by *Aprostocetus* sp. (Hymenoptera: Eulophidae). **Craig R. Roubos** and Oscar E. Liburd, Department of Entomology & Nematology, 970 Natural Area Drive, P.O. Box 110620, Gainesville, FL 32611-0620.

### **M.S. Papers**

3:32

17. Integrated Pest Management in University of Florida structures and landscapes. **Kevyn Juneau**, Norman Leppla, and Wayne Walker, Department of Entomology & Nematology, 970 Natural Area Drive, P.O. Box 110620, Gainesville, FL 32611-0620.

3:45

18. Identification and distribution of *Frankliniella schultzei* (Trybom) on selective hosts in South Florida. **Garima Kakkar**, Dakshina R. Seal, Philip Stansly and Oscar Liburd, University of Florida-IFAS, Tropical Research and Education Center, Homestead, FL 33031.

3:58

19. A genomic analysis of the SNARE protein family of the pea aphid, *Acyrtosiphon pisum*. **Laura Hunnicut** and Wayne Hunter, North Carolina State University, 4801 Five Leaf Lane #128 Raleigh, NC 27613.

4:11

20. Evaluation of two biological control agents of *Microtheca ochroloma* **Cecil O. Montemayor** and Ronald D. Cave, IFAS, Indian River Research and Education Center, Entomology and Nematology Department, 2199 S. Rock Road, Fort Pierce, FL 34945.

4:24

21. Mating disruption of grape root borer. **William Sanders** and Oscar Liburd, University of Florida Entomology and Nematology Dept., 970 Natural Area Drive Gainesville, FL 32611.

6:30 – 8:30

**RECEPTION / MIXER**

*Gardens Ballroom*

## TUESDAY MORNING, JULY 28, 2009

7:00 – 8:00

**PAST PRESIDENT'S BREAKFAST**

8:00 – 5:00

**OFFICE/PRESENTATION PREVIEW**

*Cypress Room*

8:00 – 5:00

**REGISTRATION**

*Registration Desk*

8:00 – 5:00

**POSTER DISPLAY SESSION 2** (Authors present from 2:00 – 3:00 PM; take down by 5:00 PM)

*Island Room*

DSP 15. Methods to monitor Asian citrus populations on commercial and research plots in Florida. **M.J. Ortez**, H.A. Arevalo and P.A. Stansly, Southwest Florida Research and Education Center, University of Florida –IFAS, 2686 SR 29N, Immokalee, FL 34142.

DSP 16. Compatibility of Entomopathogenic Fungus, *Isaria fumosorosea* and the Aphid Parasitoid, *Lysiphlebus testaceipes* for Controlling the Brown Citrus Aphid. **D. Pick**, P. B. Avery, W. B. Hunter, D. G. Hall, and C. A. Powell, Florida Atlantic University, Wilkes Honors College, 5353 Parkside Drive, Jupiter, FL 33458.

DSP 17. Leafhopper Virus in Texas glassy-winged sharpshooters. **P. Marshall**, W.B. Hunter, D. Hail, and B. Bextine, University of Texas-Tyler, 3900 Univ. Blvd., Tyler, TX.

DSP 18. Integration of ssRNA Viruses in Multiple Insect Taxa. **D.M. Tufts**, K. Spencer, W.B. Hunter, and B. Bextine, University of Texas-Tyler, 3900 Univ. Blvd., Tyler, TX.

DSP 19. Expressed Sequence Tags from Three Leafhopper Vectors of Pierce's Disease of Grapevine. **W.B. Hunter**, K.S. Shelby, L.E. Hunnicutt, R.F. Mizell, III, and C. Tipping, USDA, ARS, US. Hort. Res. Lab, 2001 South Rock Rd., Ft. Pierce, FL 34945.

DSP 20. Advantages of a Metagenomics Approach to Solve Huanglongbing. **W. B. Hunter**, USDA, ARS, US. Hort. Res. Lab, 2001 South Rock Rd., Ft. Pierce, FL 34945.

DSP 21. Leafhopper-Infecting Rhabdovirus: New Taastrup-like Virus. **W. B. Hunter** and S. Adkins, USDA, ARS, US. Hort. Res. Lab, 2001 South Rock Rd., Ft. Pierce, FL 34945.

DSP 22. Asian Citrus Psyllid (*Diaphorina citri*) Cell Cultures for Liberibacter Propagation. M. Marutani-Hert, **W.B. Hunter**, and D.G. Hall, USDA, ARS, US. Hort. Res. Lab, 2001 South Rock Rd., Ft. Pierce, FL 34945.

DSP 23. Cell Culture Systems for the Study of ssRNA Viruses. **W. B. Hunter**, USDA, ARS, US. Hort. Res. Lab, 2001 South Rock Rd., Ft. Pierce, FL 34945.

DSP 24. *Diaphorina citri-Reovirus* (Reoviridae). M. Marutani-Hert, **W.B. Hunter**, and D.G. Hall, USDA, ARS, US. Hort. Res. Lab, 2001 South Rock Rd., Ft. Pierce, FL 34945.

DSP 25. Microbial community of Asian Citrus Psyllids. M. Marutani-Hert, **W.B. Hunter**, and D.G. Hall, USDA, ARS, US. Hort. Res. Lab, 2001 South Rock Rd., Ft. Pierce, FL 34945.

DSP 26. *Apocnemidophorus pipitzi* (Coleoptera: Curculionidae), a Stem Boring Weevil of Brazilian Peppertree, *Schinus terebinthifolius* (Anacardiaceae): Preliminary Results on Biology and Host Range. **J. P. Cuda**, J. L. Gillmore, J. C. Medal, B. Garcete-Barrett and W. A. Overholt, Entomology & Nematology Dept, PO Box 110620, Gainesville, FL 32611-0620.

DSP 27. Rearing optimization of two races of the Fall armyworm *Spodoptera frugiperda* feeding on natural host plants. M. Medina Hay-Roe and **R. Meagher**, USDA, ARS, CMAVE 1600-1700 SW 23<sup>rd</sup> Drive Gainesville FL 32608.

DSP 28. Integrated management of Chili thrips, *Scirtothrips dorsalis* Hood (Thysanoptera: Thripidae), on peppers. **M. Dogramaci**, J. Chen, S. Arthurs, L. Osborne, M. Brennan, K. Houben, Mid-Florida Research and Education Center, 2725 Binion Road, Apopka, FL 32703.

8:30 – 11:00

**WORKSHOP: Biology and Control of Bed Bugs**

**Organizer/Moderator: Phil Koehler and Roberto Pereira, Dept. of Entomology & Nematology, University of Florida, Gainesville, FL.**

*Caloosa Ballroom*

8:30

Introduction to Heat Treatment and Demonstration Set Up - Roberto Pereira

8:55

Review of Bed Bug Biology - Philip Koehler

9:20

Inspection Methods - Wayne Walker

9:45

Bed Bug Detection by Dogs - Margie Pfiester and Pepe Peruyero



10:10

Fumigation for Bed Bug Control - Ellen Thoms and Eric Hobelmann

10:35

Heat Treatment Demonstration Wrap-up and Discussion - Roberto Pereira

8:00 – 11:45

**SYMPOSIUM: Industry Symposium: Common Turf & Ornamental Pests in Florida: Their biology, damage and control tactics.**

**Organizers/Moderators: Scott Ferguson, Atlantic Turf & Ornamental Consulting, Vero Beach, FL, and Geri Cashion, EcoSolutions, Inc., Palm Harbor, FL. Everglades B and C**

8:00 Welcome and Introduction **Scott Ferguson**

8:05

22. Chemical Control of the red palm mite, *Raoiella indica* in Puerto Rico and Florida.

**Jorge E. Peña**, Lance Osborne, and J. C. Rodrigues, University of Florida, IFAS, Tropical Research and Education Center, Homestead, FL; University of Florida, IFAS, Central Florida Research and Education Center, Apopka, FL; and University of Puerto Rico at Rio Piedras, P. R.

8:25

23. Common scales in Florida ornamentals: Their biology, damage and control strategy.

**Scott Ferguson**, Atlantic Turf & Ornamental Consulting, Vero Beach, FL.

8:45

24. Examples of thrips biocontrol in Florida. **Steven Arthurs**, University of Florida, IFAS, Central Florida Research and Education Center, Apopka, FL.

9:05

25. Physiological and behavioral responses of mole cricket to selected insecticides.

**Olga Kostromytska**, Dept. of Entomology, University of Florida, Gainesville, FL.

9:25

26. Billbug (Coleoptera: Curculionidae) seasonal phenology and management in Florida.

**Ta-I Huang**, Dept. of Entomology, University of Georgia, Athens, GA. (to be presented by **Eileen Buss**)

9:45 – 10:05 Break

10:05

27. Developing solutions for Fig Whitefly in South Florida. **Greg Pagano**, Bayer Environmental Science, Orlando, FL.

10:25

28. Insecticides Change, but Resistance Continues: Developing a Functional IPM Program for Southern Chinch Bugs. **Eileen Buss**, Dept. of Entomology and Nematology, University of Florida, Gainesville, FL.

10:45

29. Mealybugs- A Review of Common Mealybugs Affecting Ornamentals in Florida. **Nancy Rehcigl**, Syngenta Professional Products, Bradenton, FL

11:05

30. Trying to manage resistance in spider mites. **Lance Osborne**, University of Florida, IFAS, Central Florida Research and Education Center, Apopka, FL

11:25 – 11:45 Discussion

8:00 – 11:15

**CONCURRENT SESSION: Submitted Papers Agricultural and Urban Entomology**

**Moderator: Stephen L. Lapointe, USDA-ARS, 2100 South Rock Rd, Ft Pierce, FL 34945.**

*Jasmine Room*

8:00 Introduction and instructions **Stephen L. Lapointe**

8:05

31. A Comparison of Sticky Traps for Monitoring Asian Citrus Psyllid **David G. Hall** and Mamoudou Setamou, USDA-ARS, 2100 South Rock Rd, Ft Pierce, FL 34945

8:12

32. Optimal diet for production of normative adults of the Diaprepes root weevil, *Diaprepes abbreviatus*. **Stephen L. Lapointe**, Randall P. Niedz, Terence J. Evens and David G. Hall, USDA, ARS, U.S. Horticultural Research Laboratory, 2100 South Rock Road, Ft. Pierce, FL 34945

8:24

33. Quantifying dispersal of Asian citrus psyllid, *Diaphorina citri* Kuwayama, by an immunomarking technique. **Dhana Raj Boina**, Wendy L. Meyer, and Lukasz L. Stelinski, Entomology and Nematology Department, University of Florida, IFAS, Citrus Research and Education Center, Lake Alfred, FL 33850.

8:36

34. The effect of guava (*Psidium guajava* L.) leaf volatiles on the attraction of Asian citrus psyllid (*Diaphorina citri* Kuwayama) to host plants. **W.L. Meyer**, E.O. Onagbola, R.L. Rouseff, J.M. Smoot, P.J. Clayson, and L.L. Stelinski. University of Florida, CREC, 700 Experiment Station Rd., Lake Alfred, FL 33850.

8:48

35. Exclusion techniques reveal significant biotic mortality suffered by Asian citrus psyllid *Diaphorina citri* (Hemiptera: Psyllidae) populations in Florida citrus. **Jawwad A. Qureshi** and Philip A. Stansly. Department of Entomology and Nematology, University of Florida – IFAS, SWFREC, 2686 SR 29 N, Immokalee, FL 34142.

9:00

36. Effect of insecticides on the intra-block dispersal of the Asian citrus psyllid, *Diaphorina citri* Kuwayama. **H.A. Arevalo** and P.A. Stansly, Southwest Florida Research and Education Center, University of Florida – IFAS, 2686 SR 29N Immokalee, FL 34142.

9:12

37. Progress towards identifying semiochemicals for the Diaprepes root weevil, *Diaprepes abbreviatus*. **Stephen L. Lapointe**, USDA, ARS, U.S. Horticultural Research Laboratory, 2001 South Rock Road, Ft. Pierce, FL 34945.

9:24

38. Impact of Thrips on Cowpea. **Paul McLeod**, Dept. of Entomology, Agri. 321, University of Arkansas, Fayetteville, AR 72701

9:36

39. South Florida under siege: New species 1989-2008. **Adrian Hunsberger** and Julietta Brambila, University of Florida, Miami-Dade Co. Extension, 18710 SW 288<sup>th</sup> Street, Homestead, FL 33030

9:48 – 10:15 Break

10:15

40. Recruit™ HD - A paradigm shift in the evolution of termite bait technology. **J. E. Eger**, J. DeMark, M. Tolley, M. Lees, M. Messenger, E. Thoms, M. Fisher, M. Melichar, R. Hamm, J. McKern, Dow AgroSciences, 2606 S. Dundee St., Tampa, FL 33629

10:27

41. Insecticide resistance in house flies collected from Florida dairies. **P.E. Kaufman**, S.J. Nunez, R.S. Mann, M.E. Scharf and C.J. Geden, Entomology and Nematology Dept, PO Box 110620, Univ. of Florida, Gainesville, FL 32611.

10:39

42. Plant genotype effects on a host specific thrips and the impact on biological control. **G.S. Wheeler**, D. A. Williams and L.A. Mound, USDA/ARS/IPRL, 3225 College Ave, Ft Lauderdale, FL 33314

10:51

43. Effects of light intensity on Tropical Soda Apple and the consequences for performance of its biological control agent, *Gratiana boliviana* (Chrysomelidae). **Rodrigo Diaz**, W. A. Overholt, G. Wheeler, E. Roskopf and C. Aguirre, University of Florida, 2199 S. Rock Rd.. Fort Pierce, FL 34951

11:03

44. Advances in mating disruption for control of the citrus leafminer, *Phyllocnistis citrella*. **Stephen L. Lapointe** and L. L. Stelinski, USDA, ARS, U.S. Horticultural Research Laboratory, 2001 South Rock Road, Ft. Pierce, FL 34945.

12:00 – 2:30

**AWARDS LUNCHEON**

*Gardens Ballroom*

**TUESDAY AFTERNOON, JULY 28, 2009**

2:35 – 5:35

**SYMPOSIUM: Entomology of Florida Flowers**

**Organizer/Moderator: John Sivinski, ARS, USDA, Gainesville, FL.**

*Jasmine Room*

2:35 Introduction and instructions **John Sivinski**

2:40

45. Conserving natural enemies with flowering plants: estimating attraction. **John Sivinski**, USDA-ARS, CMAVE 1600 SW 23<sup>rd</sup> Dr., Gainesville, FL 32604.

3:00

46. Wasp gardening to control pest mole crickets. **Howard Frank**, Dept. of Entomology and Nematology, University of Florida, Gainesville, FL.

3:20

47. Squash bees found in Florida and their interesting relationship with *Cucurbita*. **Glenn Hall**, Dept. of Entomology and Nematology, University of Florida, Gainesville, FL.

3:40

48. Top-down, bottom-up and caught in the middle: living as a flower thrips. **Stuart Reitz**, USDA-ARS, CMAVE, Tallahassee, FL.

4:00 – 4:15 Break

4:15

49. Key native Florida plants for butterflies. **Jaret Daniels**, McGuire Center for Lepidoptera and Biodiversity, Florida Museum of Natural History, University of Florida, Gainesville, FL.

4:35

50. Floral attractants for monitoring pest moths. **Rob Meagher**, Center for Medical, Agricultural and Veterinary Entomology, USDA-ARS, Gainesville, FL.

4:55

51. Exploring new insect repellents using plants native to the southeastern United States. **Brian Quinn**, USDA-ARS, CMAVE, Gainesville, FL.

5:15 Discussion

2:35 – 5:05

**WORKSHOP: Turf & Ornamental Pest Identification**

**Organizers: Lyle Buss, Dept. of Entomology & Nematology, University of Florida, Gainesville, FL; Doug Caldwell, Horticulture Agent, Collier County Extension, Naples, FL; Catherine Mannion, University of Florida-TREC, Homestead, FL; Stephen Brown, Horticulture Agent, Lee County Extension, Naples, FL; Scott Ferguson, Atlantic Turf & Ornamental Consulting, Vero Beach, FL.**

*Caloosa Ballroom*

2:35

Identification of aphids, scales, mealybugs, whiteflies, leafminers and spider mites. **Scott Ferguson** Atlantic Turf & Ornamental Consulting, Vero Beach, FL.

2:55

Identification of Beetles in South Florida. **Catharine Mannion**, Ornamental Entomologist, Dept. of Entomology & Nematology, University of Florida, Homestead, FL

3:15

Identification of Pest Caterpillars in South Florida. **Doug Caldwell**, Horticulture Agent, Collier County Extension, Naples, FL.

3:35

Identification of Turf Insects. **Lyle Buss**, Insect Identification Lab, Entomology & Nematology Dept., University of Florida, Gainesville, FL.

3:55 – 4:05

Break

4:05 – 5:05

Lab time for examining specimens

## **WEDNESDAY MORNING, JULY 29, 2009**

8:00 – 10:00

### **OFFICE/PRESENTATION PREVIEW**

*Cypress Room*

8:00 – 10:00

### **REGISTRATION**

*Registration Desk*

8:15 – 11:55

### **SYMPOSIUM: Florida Exotic Pests: Current Status and Future Challenges**

**Organizers/Moderators: Paul Kendra, ARS, USDA, Miami, FL, and Jorge Peña, University of Florida-TREC, Homestead, FL**

*Everglades B and C*

8:15 Introduction and instructions **Jorge Peña**

8:20

52. Seasonal abundance of *Crypticerya genistae* (Hempel) (Hemiptera: Monophlebidae) and its natural enemies in south Florida. **Divina M. Amalin**, C. Mannion, A. Roda, P. Perez and L. Bradshaw. Florida and Offshore Biological Control Initiative, University of Florida and USDA-APHIS-PPQ, Miami, FL.

8:40

53. *Planococcus minor*, a potential mealybug threat to the Caribbean and U.S. mainland. **Antonio W. Francis**, M. T. Kairo, and A. L. Roda. Florida Agricultural and Mechanical University, Center for Biological Control, Tallahassee, FL.

9:00

54. The hibiscus erineum mite, *Aceria hibisci* (Acari; Eriophyidae), a threat to Florida's hibiscus and the other exotic Eriophyoidea in Florida. **Cal Welbourn**, J. E. Peña, and J. C. Rodrigues. Florida Department of Agriculture and Consumer Services, Division of Plant Industry, Gainesville, FL.

9:20

55. Evaluation of two potential biological control agents of the cycad Aulacaspis scale in Florida. **Veronica Manrique**, R. D. Cave, R. Nguyen, P. B. Avery, J. A. Castillo-Altamirano, and D. Mancero-Castillo. University of Florida, Indian River Research and Education Center, Fort Pierce, FL.

9:40

56. Modifying citrus IPM programs post-establishment of the Asian citrus psyllid and citrus greening disease. **Michael E. Rogers**, T. A. Ebert, A. E. Tsagkarakis, P. B. Avery, and L. L. Stelinski. University of Florida, Citrus Research and Education Center, Lake Alfred, FL.

10:00 – 10:15 Break

10:15

57. Chilli thrips – Florida’s new exotic resident. **Cindy McKenzie**, S. Arthurs and L. Osborne. USDA-ARS, U.S. Horticultural Research Laboratory, Fort Pierce, FL.

10:35

58. An Old World pest run amok in New World Florida: Sri Lanka weevil, *Myloccerus undecimpustulatus undatus* Marshall (Coleoptera: Curculionidae), coming to agricultural, landscape, and natural habitats near you. **Gregg S. Nuessly**, C. Mannion, and J.E. Peña. University of Florida, Everglades Research and Education Center, Belle Glade, FL.

10:55

59. Using portable gas spectrometry for the detection of invasive pests at ports of entry. **Amy L. Roda**, P. E. Kendra, S. W. Weihman, E. Varona, W. S. Montgomery, E. Q. Schnell, A. Vázquez, N. D. Epsky, and R. R. Heath. USDA-APHIS-PPQ, Center for Plant Health Science and Technology, Miami, FL.

11:15

60. The redbay ambrosia beetle, *Xyleborus glabratus*: A threat to avocados. **Jorge E. Peña**, J. L. Capinera, J. H. Crane, L. L. Stelinski, P. E. Kendra, A. E. Mayfield, and J. L. Hanula. University of Florida, Tropical Research and Education Center, Homestead, FL.

11:35 Discussion

8:15 – 10:30

**CONCURRENT SESSION: Submitted Papers Agricultural Entomology**

**Moderator: Russell F. Mizell III**, NFREC-Quincy, 155 Research Road, Quincy, FL 23251.

***Caloosa A***

8:15 Introduction and instructions **Russell F. Mizell**

8:20

61. Temporal and spatial variation in infestation of fruit by *Anastrepha* spp. in Puerto Rico: Support for a fruit fly-free zone. **David A. Jenkins** and Ricardo Goenaga, USDA-ARS Tropical Agriculture Research Station, Mayaguez, PR 00680.

8:32

62. Efficacy of Drench, Drip and Foliar Applications of Systemic Insecticides in Southwest Florida Vegetable Crops. **B.C. Kostyk**, Riefer, R., and Stansly, P.A., University of Florida, Institute of Food and Agricultural Sciences, Southwest Florida Research and Education Center, 2686 State Rd. 29 N, Immokalee, FL 34142.

8:44

63. Feasibility of grape root borer, *Vitacea polistiformis* Harris, larval acoustic detection in Florida vineyards. **R. W. Mankin**, W. R. Sanders, O. E. Liburd, and L. L. Stelinski, USDA-ARS Center for Medical, Agricultural, and Veterinary Entomology 1700 SW 23rd Dr. Gainesville, FL 32608.

8:56

64. Detection and monitoring methods for glassy-winged sharpshooter, *Homalodisca vitripennis* and other leafhoppers. **Russell F. Mizell**, III and Peter C. Andersen, NFREC-Quincy, 155 Research Road, Quincy, FL 23251.

9:06

65. Western flower thrips (*Frankliniella occidentalis*) versus snap beans in the Everglades Agricultural Area. **N. Larson** and G.S. Nuessly, Everglades Research and Education Center, University of Florida, IFAS, 3200 E. Palm Beach Rd, Belle Glade, FL 33430.

9:18

66. Control of Chilli thrips, *Scirtothrips dorsalis* Hood (Thysanoptera: Thripidae) under various regimes of insecticides. **Dakshina R. Seal**, University of Florida-IFAS, TREC, Homestead, FL 33031.

9:24

67. Western Flower Thrip Management. **David Sui** and Joe Funderburk, UF/IFAS Palm Beach County Extension, 599 N. Military Trail, West Palm Beach, FL 33415.