

**FLORIDA ENTOMOLOGICAL SOCIETY  
2008 ANNUAL MEETING PRESENTATIONS**

**SUNDAY, JULY 13, 2008**

1:00 – 5:00

Office

*Bonito*

3:30 – 6:30

Registration

*Gallery/Lobby*

2:00 – 5:00

Exhibitors

*Lobby*

**MONDAY, JULY 14, 2008**

7:00 – 5:00

Office/Slide Preview

*Bonito*

8:00 – 5:00

Registration

*Gallery/Lobby*

8:00 – 5:00

Exhibitors

*Lobby*

**GENERAL SESSION**

**R. L. Meagher, Presiding**

*Sailfish*

8:00

Welcoming Remarks

8:10 – 8:30

**Presidential Address – FES – A Great History of Volunteers**

8:30 – 9:20

**Pioneer Lecture Honorees**

**Madeline and Dr. H. Charles Mellinger**

**2008 Pioneer Lecturer: Dr. Freddie Johnson**  
***“Development of IPM in Florida”***

9:20 – 9:45  
 Break

9:45 – 11:00  
 Business Meeting  
***Dolphin***

12:00 – 1:30  
**LUNCH BREAK**

12:00 – 1:30  
**LUNCHEON** – Graduate students with **Pioneer Lecturers**  
***Dolphin***

**MONDAY, JULY 14, 2008**

**POSTER DISPLAY SESSION (Authors present from 1:00 – 2:00)**  
***Marlin***

DSP 1. Toxicity of selected insecticides to a strain of *Bemisia tabaci* Type Q from Florida. **G. L. Leibee**, L. S. Osborne, M. Leng Kok-Yokomi, C. L. McKenzie & R. Shatters, Jr. Mid-Florida REC 2725 Binion Rd, Apopka, FL.

DSP 2. FK506-Binding protein from adult Asian citrus psyllid, *Diaphorina citri* (Hemiptera: Psyllidae). **W. B. Hunter**, R. Shatters, Jr. & D. G. Hall. USDA, ARS, U.S. Horticultural Research Lab, 2001 S. Rock Rd., Ft. Pierce, FL..

DSP 3. Expressed genes in Asian citrus psyllid adults feeding on citrus. **W. Hunter**, S. Dowd, C. McKenzie, R. Shatters, Jr. & D. Hall. USDA, ARS, U.S. Horticultural Research Lab, 2001 S. Rock Rd., Ft. Pierce, FL.

DSP 4. Present status of melon thrips, *Thrips palmi* Karny and Western flower thrips, *Frankliniella occidentalis* (Pergande), Thripidae, Thysanoptera in various vegetable plantings. D. R. Seal, W. Klassen, C. M. Sabines, **G. Kakkar** & V. K. Jha. Univ. of Florida-IFAS, TREC, 18905 SW 280<sup>th</sup> St., Homestead, FL.

DSP 5. Signature chemicals for detection of hidden insect infestation. **P. E. Kendra**, A. L. Roda, W. S. Montgomery, E. Q. Schnell, A. Vázquez, S. W. Weihman, R. Halitschke, N. D. Epsky & R. R. Heath. USDA-ARS-SHRS, 13601 Old Cutler Rd., Miami, FL.

DSP 6. Ovary development in two genetic strains of the Caribbean fruit fly (Diptera: Tephritidae). **P. E. Kendra**, J. S. Sanchez, W. S. Montgomery & N. D. Epsky. USDA-ARS-SHRS, 13601 Old Cutler Rd., Miami, FL.

DSP 7. Analysis of immune-inducible transcriptome from the swallowtail butterfly, *Papilio xuthus*, using PCR-based gene fishing system. **Seong-Ryul Kim**, Kwan-Ho Park, Iksoo Kim, & Jae-Sam Hwang. Dept. of Agricultural Biology, National Institute of Agricultural Science and Technology, RDA, 61 Seodundong, Suwon 441-100, Korea.

DSP 8. Placement of cone emergence cages and its impact on monitoring of *Phyllophaga vandinei* (Coleoptera: Scarabaeidae). **D. A. Jenkins** & Ricardo Goenaga, USDA-ARS Tropical Agriculture Research Station, 2200 Ave. P.A. Campos, Ste. 201, Mayaguez, PR.

DSP 9. Detection and characterization of a novel reovirus in the Asian citrus psyllid, *Diaphorina citri* (Hemiptera: Psyllidae). **M. M. Hert**, W. B. Hunter & D. G. Hall. USDA, ARS, U.S. Horticultural Research Lab, 2001 S. Rock Rd., Ft. Pierce, FL..

DSP 10. Asian citrus psyllid, genetic basis of immunity. **M. M. Hert**, W. B. Hunter & D. G. Hall. USDA, ARS, U.S. Horticultural Research Lab, 2001 S. Rock Rd., Ft. Pierce, FL.

DSP 11. Identification tool for the potentially invasive weevil species from the Caribbean countries to the United States. **M. Haseeb**, C. W.O'Brien & M.T.K. Kairo. Center for Biological Control, Florida A&M Univ., Tallahassee, FL.

DSP 12. Predicting blueberry gall midge activity using emergence traps and a temperature-development model. **R. C. Roubos** & O. E. Liburd. Univ. of Florida, Gainesville, FL.

DSP 13. Differential response of grape root borer (Lepidoptera: Sesiidae) to its own synthetic sex pheromone and an off blend containing its major component. **W. R. Sanders**, O. E. Liburd & L. L. Stelinski. Univ. of Florida, Gainesville, FL.

**MONDAY AFTERNOON, JULY 14, 2008****SYMPOSIUM: Industry****Organizers/Moderators: B. Ryser & J. Eger*****Amberjack***

1:30

Introduction and instructions

1:35

1. Sashimi: A component of the isopteran palate? **J. E. Eger, Jr.**, M. T. Messenger, S. Buckley, L. Remmen, A. L. Szalanski, and J. A. McKern. Dow AgroSciences, 2606 S. Dundee St., Tampa, FL 33629

1:59

2. The use of advanced electronic equipment to detect Subterranean termites in the field. **B. W. Ryser.** FMC Corporation, 9703 Cypress Pond Avenue, Tampa, Fl. 33647

2:23

3. An effective treatment for eliminating infestations of bed bugs, *Cimex lectularius*. **E. Thoms.** Dow Agro Sciences, 7257 NW 4<sup>th</sup> Blvd, #20, Gainesville, FL 32607

2:47

4. The new and the old: combining technologies for more pest control options. **Kyle K. Jordan.** Field research project coordinator, Whitmire Micro-Gen 1305 Weatherstone Way NE, ATL GA 30324

3:11

5. Optigard® Cockroach bait: Secondary kill via coprophagy in the German cockroach. **C. Wyatt-Evens**, Deanna Branscome & Mark Zajac. Syngenta Crop Protection, Vero Beach Research Center, 7145 58<sup>th</sup> Avenue Vero Beach, FL 32967

3:35

6. Fipronil transfer mechanisms among social insects. **B. Hickman.** BASF Corporation, 1220 Manchester Road, Maitland, FL 32751

**CONCURRENT SESSION: Student Paper Competition, Doctor of Philosophy**  
**Organizer/Moderator: G. Nuessly**  
***Pompano***

1:30

Introduction and Instructions

1:35

7. Trail establishment to different food sources in *Paratrechina pubens* and *Pheidole megacephala*. **R. Vazquez** & P. Koehler. Univ. of Florida, Entomology & Nematology Dept. Building 970, Natural Area Dr., Gainesville, FL.

1:48

8. Pathogenicity of *Thripinema fuscum* Tipping & Nguyen (Tylenchida: Allantonematidae) infecting *Frankliniella fusca* (Hinds) (Thysanoptera: Thripidae). **K. Sims**, J. Funderburk, J. Becnel & Drion Boucias. Univ. of Florida, Entomology & Nematology Dept. Building 970, Natural Area Dr., Gainesville, FL.

2:01

9. Development rates and thresholds for lesser cornstalk borer on sugarcane at constant temperatures. **H. Sandhu** & Gregg Nuessly. 3200 East Palm Beach Rd., Belle Glade, FL.

2:14

10. Spatial and temporal distributions of corn-infesting picture-winged flies. **G. Goyal**, G. S. Nuessly & H. K. Gill. Everglades Research and Education Center 3200 East Palm Beach Rd. Belle Glade, FL.

2:27

11. The influence of four hedgerows on arthropod population dynamics in adjacent vegetable crops. **H. N. HansPetersen**, R. McSorley, O. E. Liburd, H. K. Gill, N. Om, R. Krueger & J. Pack. Entomology and Nematology, Univ. of Florida, Bldg. 970 Natural Area Dr., Gainesville FL.

2:40

12. The effect of southern highbush blueberry variety on thrips numbers and fruit injury in Florida. **E. M. Rhodes** & O. E. Liburd. Dept. of Entomology and Nematology, Univ. of Florida, P.O. Box 110620, Gainesville, FL.

2:53

13. An analysis of the spatial distribution of silverleaf whitefly and tomato yellow leaf curl virus (TYLCV) in tomato using geographical information systems. **J. Taylor** & D. Schuster. Univ. of Florida, IFAS Gulf Coast Research & Education Center, 14625 CR 672 Wimauma, FL.

3:06-3:18 Break

3:19

14. Do organic mulches have impact on the soil surface insect community? **H. K. Gill**, R. McSorley, R. Krueger, G. Goyal & D. D. Treadwell. 970 Natural Area Dr. P.O. Box 110620, Gainesville, FL

3:32

15. Susceptibility of different *Hibiscus rosa-sinensis* cultivars to feeding symptoms of pink hibiscus mealybug (Hemiptera: Pseudococcidae). **J. Vitullo**, C. Bergh, A. Zhang & Catharine Mannion. Univ. of Florida's Tropical Research and Education Center 18905 SW 280 St. Homestead, FL.

3:45

16. Post-release monitoring of a biological control agent, *Lixadmontia franki*, in Florida. **T. Cooper**. Dept. of Entomology and Nematology, Univ. of Florida, P.O. Box 110620, Gainesville, FL.

3:58

17. Taxonomic status of *Reticulitermes* sp. of Lanyu Island, Taiwan. **Hou-Feng Li**, R. H. Scheffrahn, Nan-Yao Su, N. Kanzaki & Rou-Ling Yang. FLREC, 3205 College Ave, Davie, FL.

4:11

18. Antifungal activity of the termite alkaloid norharmane against the mycelial growth of *Metarhizium anisopliae* and *Aspergillus nomius*. **T. Chouvenec** & Nan-Yao Su. Univ. of Florida, Entomology & Nematology Dept., FLREC, 3205 College Ave Davie, FL.

4:24

19. Fly traps and toxicant treated cord for control of house flies. **J. W. Diclaro II**. Univ. of Florida. Bldg. 970, Natural Area Dr. Gainesville, FL.

4:37

20. Sublethal effects of radiation on two termite species and their gut microfauna. **N. S. Bujang** & Nan-Yao Su. Univ. of Florida, Fort Lauderdale Research and Education Centre 3205 College Av. Davie, FL 33314

Session End

6:30 – 8:30

**Reception/Mixer – Terrace**

**Exhibits – Lobby**

**TUESDAY MORNING, July 15, 2008**

7:00 – 8:00

**Past Presidents' Breakfast**

*Sinclair's*

7:00 – 5:00

Office

**Bonito**

8:00 – 4:00

Registration

**Gallery/Lobby**

8:00 – 5:00

Exhibitors, continued

**Lobby**

8:00 – 12:00

**SYMPOSIUM: Current Research Topics on Asian Citrus Psyllid and  
Huanglongbing**

**Organizers/Moderators: D. G. Hall & L. Stelinski**

*Pompano and Dolphin*

8:00

Welcome and Introduction.

8:05

21. The Huanglongbing situation in Florida and Brazil. **T. Gast** (Southern Gardens Citrus, Clewiston, FL).

8:25

22. The Texas situation. **M. Setamou** (Texas A&M University, Weslaco, TX).

8:45

23. Detection and diagnostics of Liberibacter in *Diaphorina citri*. **R. Shatters** (USDA-ARS, Ft. Pierce, FL).

9:05

24. Huanglongbing transmission studies. **J. Hartung** (USDA-ARS, Beltsville, MD).

9:25

25. Reproductive biology and behavior. **D. G. Hall**, E. J. Wenninger (USDA-ARS, Ft. Pierce, FL), L. Stelinski (Univ. of Florida) & R. Mankin (USDA-ARS).

9:45 – 10:05 Break

10:05

26. Host plants of *Diaphorina citri*. **S. Halbert** (Florida Department of Agriculture and Consumer Services, Gainesville, FL).

10:25

27. Chemical ecology of *Diaphorina citri*. **L. Stelinski** (Univ. of Florida, Lake Alfred, FL), E. J. Wenninger (USDA-ARS), E. Onagbola (Univ. of Florida) & D. G. Hall (USDA-ARS).

10:45

28. Providing assistance in development and evaluation of psyllid management programs for citrus growers on the east coast. **P. Avery** (Univ. of Florida, Ft. Pierce, FL), W. B. Hunter, D. G. Hall, M. A. Jackson (USDA-ARS), C. A. Powell & M. E. Rogers (Univ. of Florida).

11:05

29. Biological control of *Diaphorina citri* by insects and mites. **P. Stansly**, J. A. Qureshi, E. Rohrig, M. J. Blasco (Univ. of Florida, Immokalee, FL), R. Nguyen (FDACS) & D. G. Hall (USDA-ARS).

11:25

30. Managing *Diaphorina citri* in Florida citrus. **M. Rogers** (Univ. of Florida, Lake Alfred, FL).

11:45 – 12:00 Discussion

### **CONCURRENT SESSION: Student Paper Competition, Master of Science**

**Organizer: G. Nuessly**

***Amberjack***

8:00

Introduction and Instructions.

8:05

31. Dispersal behavior of the West Indian drywood termite *Cryptotermes brevis* (Walker). **M. T. Ferreira** & R. Scheffrahn. Ft. Lauderdale Research and Education Center (Univ. of Florida), 3205 College Ave., Ft. Lauderdale, FL.

8:18



32. Ability of bed bug detecting canines to locate live common bed bugs and viable bed bug eggs (*Cimex lectularius*). **M. Pfiester** & P. Koehler. Dept. of Entomology and Nematology, University of Florida, Gainesville, FL.

8:31

33. Evaluation of techniques for monitoring aphids (Hemiptera:Aphididae) and whiteflies (Hemiptera:Aleyrodidae) in organically grown summer squash. **C. A. Scott** and O. E. Liburd. Dept. of Entomology and Nematology, Univ. of Florida, Gainesville, FL.

8:44

34. Wood moisture effects on termite mortality and weight loss. **Wai-Han Chan**, P. Koehler & R. Pereira. Univ. of Florida, Building 970 Natural Area Dr., Gainesville, FL.

10:00– 12:00

**WORKSHOP TERMITE**  
**Organizer: R. Scheffrahn**  
**Amberjack**

**POSTER SESSION, continued**

**10:00 AM – 5:00 PM**

Posters must be removed by 5:00 P.M. Tuesday

12:00 – 1:30

**TUESDAY, JULY 15, 2008**

**AWARDS LUNCHEON**

*Sailfish*

2:00 – 5:00

**SYMPOSIUM: Western Flower Thrips in Florida**

**Organizers/Moderators: J. Funderburk & O. Liburd**

*Amberjack*

2:00

Opening Remarks – J. Funderburk (Univ. of Florida)

2:05

35. Biology and ecology of the Western flower thrips (Thysanoptera: Thripidae): the making of a pest. **S. R. Reitz**, USDA-ARS-CMAVE, 6383 Mahan Dr. Tallahassee, FL.

2:23

36. Shifts in population abundance and damage. **C. Mellinger** & G. Frantz (Glades Crop Care)

2:42

37. Management of Western flower thrips in vegetables. **J. Funderburk**. Univ. of Florida, Quincy, FL.

3:01

38. Importance, sampling, and management of flower thrips in blueberries and strawberries in Florida. **H. A. Arevalo**, A. B. Fraulo & O. E. Liburd. Southwest Florida Research and Education Center, Univ. of Florida/IFAS, 2686 State Rd. 29 N., Immokalee FL.

3:20

39. Education and training to increase adoption of IPM for Western flower thrips. **J. L. Gillett**<sup>1</sup>, N. C. Leppa<sup>1</sup>, A. C. Hodges<sup>2</sup> & Joyce L. Merritt<sup>1</sup>. Entomology and Nematology Dept., Univ. of Florida, IFAS, IPM Florida, Gainesville, FL, <sup>2</sup>Entomology and Nematology Dept., Univ. of Florida, IFAS, Southern Plant Diagnostic Network, Gainesville, FL.

3:39

40. Assessment of implementation and sustainability of IPM programs. **T. Weiss**. Dow AgroSciences.

2:00 – 5:00

**CONCURRENT SESSION**

**TUESDAY AFTERNOON, JULY 15, 2008**

**CONCURRENT SESSION, continued**

**Contributed Papers, General Urban Entomology**

**Moderator: R. Scheffrahn**

*Pompano*

2:00

Introduction

2:05

41. Endemic origin and vast anthropogenic dispersal of the West Indian drywood termite, *Cryptotermes brevis* (Isoptera: Kalotermitidae). **R. H. Scheffrahn**, J. Křeček, R.

Ripa & Paola Luppichini. Ft. Lauderdale R.E.C. Univ. of Florida, 3205 College Ave., Ft. Lauderdale, FL.

2:17

42. Establishment of statewide mosquito surveillance information system in Florida. **Y. (Peter) Jiang**, J. Clauson & M. Page. 1203 Governors Squares Blvd., Suite 300 Tallahassee, FL.

### **WEDNESDAY MORNING, July 16, 2008**

8:00 – 10:00

Registration

#### **Contributed Papers, General Agricultural Entomology**

**Moderator:**

***Amberjack***

8:00

Introduction

8:05

43. Present status of melon thrips, *Thrips palmi* Karny and Western flower thrips, *Frankliniella occidentalis* (Pergande), Thripidae, Thysanoptera in various vegetable plantings. **D. R. Seal**. Tropical Research and Education Center, 18905 SW 280 St., Homestead, FL.

8:17

44. The effect of reduced risk herbicide on fall armyworm and tropical sod webworm. **R. Cherry**. Univ. of Florida, Everglades Research and Education Center, 3200 E. Palm Beach Rd., Belle Glade, FL.

8:29

45. Abundance and spatial distribution of wireworms in Florida sugarcane fields on muck versus sandy fields. R. Cherry, P. Stansly, **J. Sampson** & A. Wilson. Univ. of Florida, Everglades Research and Education Center, 3200 E. Palm Beach Rd., Belle Glade, FL.

8:41

46. Potential of exotic and resident biological control agents of the avocado lace bug, *Pseudacysta perseae* (Heteroptera: Tingidae) in Florida. J. E. Peña, **R. E. Duncan**, W. Roltsch, R. Gagne, T. Henry & C. Holguin. Univ. of Florida, TREC, 18905 SW 280<sup>th</sup> St., Homestead, FL.

8:53

47. A new invasive pest - how UF Extension educates others about the fig whitefly. **A. Hunsberger**, M. Lamberts, H. Mayer & Catharine Mannion. UF/Miami-Dade County Extension, 18710 SW 288<sup>th</sup> St., Homestead, FL.

9:05

48. Incidence of the Asian citrus psyllid, *Diaphorina citri* (Hemiptera: Psyllidae) and its parasitoid *Tamarixia radiata* (Hymenoptera: Eulophidae) in Florida citrus. **J. A. Qureshi**<sup>1</sup>, M. E. Rogers<sup>2</sup>, D. G. Hall<sup>3</sup> & P. A. Stansly<sup>1</sup>. <sup>1</sup> Univ. of Florida/IFAS, Southwest Florida Research and Education Center, 2686 SR 29N, Immokalee, FL, <sup>2</sup> Univ. of Florida/IFAS, Citrus Research and Education Center, Lake Alfred, FL, <sup>3</sup>USDA, ARS, U. S. Horticultural Research Laboratory, Ft. Pierce, FL.

9:17

49. Citrus greening bibliographic database: a new tool for researchers, growers, and students. **H. A. Arevalo**, G. Snyder & P. A. Stansly. Southwest Florida Research and Education Center, University of Florida/IFAS, 2686 State Road 29 N., Immokalee FL 34142

9:29

50. Geometric designs and modeling response surfaces for applications in entomology: diets and pheromones as mixtures. **S. L. Lapointe**<sup>1</sup>, T. Evens<sup>1</sup>, R. Niedz<sup>1</sup>, & L. Stelinski<sup>2</sup>. <sup>1</sup>USDA-ARS, U.S. Horticultural Research Laboratory, 2001 S. Rock Rd., Ft. Pierce, FL; <sup>2</sup>Citrus Research and Education Center, Univ. of Florida, 700 Experiment Station Rd., Lake Alfred, FL.

9:41

51. Manipulation of ladybeetle species with visual and odor-gustatory cues. **R. F. Mizell, III**, D. Paini & C. Gomez. NFREC-Quincy, 155 Research Rd, Quincy, FL.

9:53

52. Recent advancements in the UF/IFAS Plant Medicine Program. **J. L. Merritt**, N. C. Leppa & R. J. McGovern. IPM Florida, Entomology and Nematology Dept. Univ. of Florida. Bldg. 970, Natural Area Dr. Gainesville, FL.

10:05-10:17 Break

10:17

53. Investigation of acoustic sensors to detect coconut rhinoceros beetle in Guam **R. W. Mankin** and A. Moore. USDA-ARS CMAVE, 1700 SW 23rd Dr, Gainesville, FL 32608

10:29

54. The red palm mite, *Raoiella indica* (Acari: Tenuipalpidae): pre- and post-infestation surveys to determine potential of natural enemies in Florida **J. E. Peña**, R. E. Duncan & D. Carrillo. Univ. of Florida, TREC, 18905 SW 280<sup>th</sup> St., Homestead, FL.

10:41

55. Two Orius species in North Central Florida: ecology and physiology. **J. P. Shapiro** & P.D. Shirk. USDA, ARS, CMAVE; 1700 SW 23rd Drive, Gainesville FL 32608

10:53

56. Bayesian phylogenetic analysis of mitochondrial COI DNA sequence groups of Asian Citrus Psyllid, *Diaphorina citri* Kuwayama, the vector for citrus greening disease, Huanglongbing reveals two major phylogenetic groups. **L. M. Boykin**, P. D. Barro, D. G. Hall, W. B. Hunter & R.G. Shatters, Jr. University of Florida, Indian River Research and Education Center, Fort Pierce, FL 34945.

11:05

57. Honey bee update on CCD and AHB in the southeastern United States. **W. H. Kern**. Ft. Lauderdale Research and Education Center, 3205 College Ave. Davie, FL 33314

11:17

58. Extensive survey of *Bemisia tabaci* biotypes in Florida – investigating the “Q” invasion. **C. L. McKenzie**, L. Boykin, R. G. Shatters, Jr., G. Hodges, L. S. Osborne, F. Byrne. US Horticultural Research Laboratory, ARS-USDA, 2001 South Rock Road, Fort Pierce, FL 34945

11:29

59. Parasitization of fall armyworm by the eulophid parasitoid *Euplectrus platyhypenae*. **R. L. Meagher**, USDA-ARS-CMAVE, 1700 SW 23<sup>rd</sup> Dr., Gainesville, FL 32608

**Session ends**

8:00-12:00

**CONCURRENT SESSION**

**Wednesday Morning, July 16, 2008**

**SYMPOSIUM: Recent and Current Events in Biocontrol of Arthropods and Weeds in Florida**

**Organizers/Moderators: J. P. Cuda & J. H. Frank**

**Marlin Room**

8.00

Introductory Remarks, **J. P. Cuda**, Univ. of Florida, Entomology & Nematology Dept, Gainesville, FL.

8:05

60. Investigating landscape level movement by insect predators and its potential exploitation for increasing biological control. **R. F. Mizell, III**, J. Herbert, D. Paini & C. Gomez, NFREC-Quincy, 155 Research Rd., Quincy, FL.

8:24

61. Overview of biological control of Brazilian peppertree. **J. P. Cuda**, J. C. Medal, W. A. Overholt & J. H. Pedrosa-Macedo. Univ. of Florida, Entomology & Nematology Dept, PO Box 110620, Gainesville, FL.

8:43

62. A retrospective of 35 years of biological control in South Florida. **J. E. Peña** & R. M. Baranowski. Univ. of Florida, Tropical Research and Education Center, 18905 SW 280<sup>th</sup> St., Homestead, FL.

9:02

63. Biological control of tropical soda apple in Florida: current status. **J. Medal**, N. Bustamante, W. Overholt, R. Diaz, P. Stansly, D. Amalin, A. Roda, K. Hibbard, R. Gaskalla, B. Sellers, S. Hight & J. Cuda,

9:21

64. Classical biological control of the red palm mite: status and prospects. **M. A. Hoy** & Heidi Bowman Univ. of Florida, Entomology & Nematology Dept, PO Box 110620, Gainesville, FL.

9:40

65. Biology, host specificity and impact of *Ischnodemus variegatus* (Hemiptera: Blissidae) on the invasive grass *Hymenachne amplexicaulis*. **R. Diaz**, W. A. Overholt, J. P. Cuda & P. Pratt. Biological Control Research and Containment Laboratory, Univ. of Florida, Ft. Pierce, FL.

10:00 - 10:19 Break

10:20

66. The potential of banker plants in protected culture. **L. S. Osborne**

10:39

67. Evaluating the effect of Brazilian peppertree genotypes on the thrips *Pseudophilothrips ichini*: implications for biological control. **V. Manrique**, J. P. Cuda, W.A. Overholt & D. Williams.

10:58

68. Evaluation and field release of *Pseudacteon* decapitating flies as self-sustaining fire ant biocontrol agents. **S. D. Porter**. USDA-ARS, CMAVE, Gainesville FL.

11:17

69. Good bugs versus bad bugs at the UF Biological Control Research and Containment Laboratory. **R. D. Cave**, M. S. Burton, G. Thorson, C. Montemayor & J. Castillo. Indian River Research & Education Center, Univ. of Florida, Ft. Pierce, FL.

11:36 (10 minutes)

Panel Discussion.