

**FLORIDA ENTOMOLOGICAL SOCIETY
2007 ANNUAL MEETING PRESENTATIONS**

SUNDAY, JULY 15, 2007

1:00 – 5:00

OFFICE

The Palms

1:00 – 6:00

REGISTRATION

The Palms Lobby

2:00 – 5:00

EXHIBITS

Plaza Pre-function 3

6:30

EXECUTIVE COMMITTEE MEETING

Verona

6:30

SOUTHEASTERN BRANCH – LOCAL ARRANGEMENTS COMMITTEE

Amanda Hodges

John Ringling Boardroom

MONDAY MORNING, JULY 16, 2007

7:00 – 5:00

OFFICE / PRESENTATION PREVIEW

The Palms

7:00 – 4:00

REGISTRATION

The Palms Lobby

8:00 – 5:00

EXHIBITS

Plaza Pre-function 3

GENERAL SESSION

Geri Cashion, Presiding

Plaza 3

8:00

Welcoming Remarks

8:10 – 8:30

PRESIDENTIAL ADDRESS

Geri Cashion

8:30 – 9:20

PIONEER LECTURE

Dr. William and Nadine McGuire

2007 Pioneer Lecturers:

Dr. Thomas Emmel, Director

Dr. Jacqueline Miller, Associate Director

Dr. Jaret Daniels, Assistant Director

McGuire Center for Lepidoptera and Biodiversity

“Planning For Tomorrow: The Future of Entomological Investments”

9:20 – 9:45

Break

9:45 – 11:00

BUSINESS MEETING

Plaza 3

POSTER DISPLAY SESSION (Authors present from 2:00 – 3:00 PM)

Belle Haven

DSP 1. University of Florida Entomology and Nematology Department’s education and outreach program: bringing children and insects together. **Michael Bentley** and J. Ellis. University of Florida, Entomology and Nematology Dept., Gainesville, FL.

DSP 2. The Sphingidae of Honduras. **Ana C. Samayoa** and R. D. Cave. University of Florida, Indian River Research and Education Center, 2199 S. Rock Rd., Ft. Pierce, FL.

DSP 3. Life table analysis for *Cactoblastis cactorum* immatures and female adults under five constant temperatures. **Jesusa Crisostomo Legaspi**. USDA-ARS, CMAVE/FAMU-CBC, 6383 Mahan Dr., Tallahassee, FL.

DSP 4. 2007 Status of pilot program using area-wide methodologies and Integrated Pest Management of the Formosan subterranean termite in the French Quarter, New Orleans, Louisiana. **Alan L. Morgan**, D. R. Ring, A. R. Lax and F. S. Guillot. Louisiana State University, Department of Entomology, 404 Life Sciences Bldg., Baton Rouge, LA.

DSP 5. Testing host food sources for laboratory rearing of *Lixadmontia franki* (Diptera: Tachinidae). **Michael S. Burton** and R. D. Cave. Indian River Research and Education Center, University of Florida, 2199 S. Rock Rd, Ft. Pierce, FL.

DSP 6. *Rhinocyllus conicus*, biological control agent of Canadian thistle, *Cirsium arvense*, acquires elk thistle, *Cirsium scariosum*, as a new host. **Rachel R. Renne** and E. McCord, Jr. New College of Florida, Division of Natural Sciences, Biology, 5800 Bay Shore Rd., Sarasota, FL.

DSP 7. Parasitoids of fall armyworm, *Spodoptera frugiperda*, in Florida. **Robert L. Meagher**. USDA-ARS CMAVE, 1700 SW 23rd Dr., Gainesville, FL.

DSP 8. The Florida Cooperative Agricultural Pest Survey (CAPS) program: survey monitoring and pest detection through GIS. **Andrea B. Chavez**, D. R. Gaskill, T. R. Smith and W. Dixon. FDACS-DPI-CAPS, 1911 SW 34th St., Gainesville, FL.

DSP 9. The Florida Cooperative Agricultural Pest Survey (CAPS) program: red palm mite survey monitoring through GIS. **Douglas R. Gaskill**, A. B. Chavez, M. Meadows, K. Griffiths, T. R. Smith, C. Welbourn and W. Dixon. Pest Survey Specialist, FDACS-DPI-CAPS, 1833 57th St., Sarasota, FL.

DSP 10. Flubendiamide, a new lepidopteran-specific insecticide from Bayer CropScience. **Mike Edenfield**, S. Krueger and R. Steffens. Bayer CropScience Technical Service Representative, 11097 Ledge Ln., Windermere, FL.

DSP 11. Alverde[®] (Metaflumizone): a novel BASF insecticide for control of key insect pests in vegetables. **Larry Newsom**, V. Pedibhotla, D. Calibeo-Hayes, J. Mitchell and T. Holt. BASF Corp., 26 Davis Dr., P.O. Box 13528, Research Triangle Park, NC.

DSP 12. Caribbean fruit fly, *Anastrepha suspensa* (Diptera: Tephritidae): life history and laboratory rearing methods. **Nancy D. Epsky**, J. S. Sanchez, W. S. Montgomery and P. E. Kendra. USDA-ARS, Subtropical Horticulture Research Station, 13601 Old Cutler Rd., Miami, FL.

DSP 13. EAG and behavioral responses of the Caribbean fruit fly (Diptera: Tephritidae) to terminal diamines in a food-based lure. **Paul E. Kendra**, N. D. Epsky, A. Vázquez and R. R. Heath. USDA-ARS, Subtropical Horticulture Research Station, 13601 Old Cutler Rd., Miami, FL.

DSP 14. Phenology of *Diaphorina citri* in citrus in east-central Florida. D. G. Hall, **Matthew G. Hentz** and R. Adair. USDA-ARS, U. S. Horticultural Research Laboratory, 2001 South Rock Rd., Ft. Pierce, FL.

DSP 15. The simple and rapid diagnosis of citrus huanglongbing (Citrus greening) by Scratch method. **Shinji Kawano**, T. Takushi, T. Toyozato, A. Ooshiro, M. Numazawa and K. Yasuda. Plant Disease and Insect Pest Management Section, Okinawa Prefectural Agricultural Research Center, Okinawa, Japan.

DSP 16. Effect of mating status and food on longevity and reproductive output of female *Diaprepes abbreviatus* under field conditions. **Ian Jackson**, C. McCoy and L. Stelinski.

University of Florida, Citrus Research and Education Center, 700 Experiment Station Rd., Lake Alfred, FL.

DSP 17. Search, assessment and development of a Bt gene-based strategy for resistance to *Diaprepes*. **A. A. Weathersbee III**, R. G. Shatters, Jr., S. L. Lapointe and D. G. Hall. USDA-ARS, U.S. Horticultural Research Laboratory, 2001 South Rock Rd., Ft. Pierce, FL.

DSP 18. Seasonal phenology of some key pests of Alabama Satsuma mandarin orchards. **Henry Y. Fadamiro**, Y. Xiao, V. Umeh, T. Hargroder, M. Nesbitt and C. Childers. Department of Entomology & Plant Pathology, 301 Funchess Hall, Auburn University, AL 36849.

DSP 19. Susceptibility and fitness cost of cotton bollworm *Helicoverpa armigera* (Hübner) associated with Cry 1Ac cry toxin. **Harsimran K. Gill**, S. Singh, R. Sharma, V. K. Gupta, V. K. Dilawari and G. Goyal. University of Florida, Entomology and Nematology Dept., Gainesville, FL.

DSP 20. Seasonal abundance of insect pests of cotton. **R. S. Mann**, P. S. Shera and J. Singh. University of Florida, Entomology and Nematology Dept., Gainesville, FL.

DSP 21. Entomopathogenic virus entry and replication site in the glassy-winged sharpshooter, *Homalodisca vitripennis* (Hemiptera: Cicadellidae). **Wayne B. Hunter**, X. H. Sinisterra, D. Achor and L. E. Hunnicutt. USDA-ARS, U.S. Horticultural Research Laboratory, 2001 South Rock Rd., Ft. Pierce, FL.

DSP 22. Vertical and horizontal movement of flower thrips into southern highbush blueberries. **Oscar E. Liburd** and H. A. Arèvalo. University of Florida, Entomology and Nematology Dept., Gainesville, FL.

DSP 23. Toxicity of Imidacloprid to *Bemisia tabaci* type Q collected from Florida. **Gary L. Leibe**, L. S. Osborne, C. L. McKenzie and M. L. Kok-Yokomi. University of Florida, Mid-Florida Research and Education Center, 2725 Binion Rd., Apopka, FL.

DSP 24. Mulches and a reduced-risk insecticide influence whitefly population and incidences of *Cucurbit Leaf Crumple Virus* in zucchini squash. **T. W. Nyoike** and O. E. Liburd. University of Florida, Entomology and Nematology Dept., Gainesville, FL.

9:45 – 11:50

SYMPOSIUM: Mode of Action, Biochemistry and Insecticide Resistance

Organizers: Marco Toapanta and Scott Ferguson

St. Armands II

9:45

Introduction.

9:50

1. IRAC-US and neonicotinoid resistance management recommendations. **David Rogers**. Bayer CropScience, 2 T.W. Alexander Dr., Research Triangle Park, NC.

10:10

2. Resistance of field populations of *Frankliniella occidentalis* to Spinosad. **Tony Weiss**, C. Mellinger and J. Funderburk. Dow AgroSciences, Brandon, FL.

10:30

3. Spinosad resistance management strategies. **Joseph E. Funderburk**, C. Mellinger and T. Weiss. North Florida Research and Education Center, University of Florida. Quincy, FL.

10:50

4. MOVENTO[®], a new systemic insecticide for sucking insect pest management from Bayer CropScience. **Marco A. Toapanta**, J. Bell, D. Schuster, R. Steffens, R. Nauen and A. Elbert. 809 E. Bloomingdale Ave. PMB. 380. Brandon, FL.

11:10

5. Siesta[®] (Metaflumizone): A new fire ant bait from BASF. **Larry Newsom**, D. Calibeo-Hayes and T. Holt. BASF Corp., 26 Davis Dr., P.O. Box 13528, Research Triangle Park, NC.

11:30

6. Coragen[™] (DPX-E2Y45): A novel anthranilic diamide insecticide (Chlorantraniliprole) for the control of fruiting and leafy vegetable pests. **Daniel W. Sherrod**, S. Royal, P. Marcon, F. W. Marmor and H. E. Portillo. DuPont Crop Protection, Suite 300, 8295 Tournament Dr., Memphis, TN.

12:00 – 1:30

LUNCH BREAK

12:00 – 1:30

LUNCHEON – Graduate students with **Pioneer Lecturers**
Miramar

MONDAY AFTERNOON, JULY 16, 2007

POSTER DISPLAY SESSION (Authors present from 2:00 – 3:00 PM)

Belle Haven

EXHIBITS

Plaza Pre-function 3

1:55 – 4:30

SYMPOSIUM: Applying Bioinformatic Tools to Invasive Insect Research
Organizer: Laura Boykin

St. Armands II

1:55

Introduction. **Laura Boykin**

2:00

7. Using population bioinformatics to study the dynamics and relationships of invasive *Bemisia tabaci* biotype populations that have entered the U.S. **Robert G. Shatters, Jr.**, P. Hall, L. M. Boykin and C. L. McKenzie. USDA-ARS, U.S. Horticultural Research Laboratory, 2001 South Rock Rd., Ft. Pierce, FL.

2:20

8. Using haplotypes to monitor the migration of fall armyworm in North America. **Rodney Nagoshi**. USDA-ARS CMAVE, 1700 SW 23rd Dr., Gainesville, FL.

2:40

9. DNA analysis of the establishment of a parasitoid of the brown citrus aphid. **Marjorie A. Hoy**, A. Jeyaprakash, D. Clarke-Harris and L. Rhodes. University of Florida, Entomology and Nematology Dept., Gainesville, FL.

3:00 – 3:20

Break

3:20

10. A bioinformatic approach to studying invasive insects: two case studies *Bemisia tabaci* and *Diaphorina citri*. **Laura M. Boykin**, R. G. Shatters, Jr., D. G. Hall, C. L. McKenzie, W. B. Hunter, R. A. Bagnall, D. R. Frohlich, C. S. Katsar, R. C. Rosell and P. DeBarro. USDA-ARS, U.S. Horticultural Research Laboratory, 2001 South Rock Rd., Ft. Pierce, FL.

3:40

11. Microsatellites and a parasitic beetle (*Coccotrypes rhizophorae*). **Donna Devlin**. Florida Atlantic University, Dept. of Biological Sciences, Harbor Branch, Ft. Pierce, FL.

4:00

12. Concurring the south: *Zaprionus indianus* is marching on. **Kim Van Der Linde**. Florida State University, Dept. of Biological Science, Ecology and Evolution, Tallahassee, FL.

4:20

Summary and Conclusions. **Laura Boykin**

1:55 – 4:48

CONCURRENT SESSION: Student Paper Competition, Doctor of Philosophy

Moderator: Marco Toapanta

St. Armands I

1:55

Introduction and Instructions. **Marco Toapanta**

2:00

13. Temperature-dependent development, survival and potential distribution of *Ischnodemus variegatus* (Hemiptera: Blissidae), an herbivore of West Indian marsh grass (*Hymenachne amplexicaulis*). **Rodrigo Diaz**, W. A. Overholt, J. P. Cuda and P. Pratt. Biological Control Research and Containment Laboratory, University of Florida, Ft. Pierce, FL.

2:12

14. The effect of variety, treatment threshold, and insecticides on flower thrips management in Florida's southern highbush blueberries. **Elena M. Rhodes** and O. E. Liburd. University of Florida, Entomology and Nematology Dept., Gainesville, FL.

2:24

15. Life cycle of lesser cornstalk borer, *Elasmopalpus lignosellus* Zeller (Lepidoptera: Pyralidae), on sugarcane. **Hardev Sandhu**, G. Nuessly, S. Webb, R. Cherry and R. Gilbert. University of Florida, Entomology and Nematology Dept., Gainesville, FL.

2:36

16. Effect of crape myrtle (*Lagerstroemia* spp.) parentage on crapemyrtle aphid (*Sarucallis kahawaluokalani*) and tritrophic interactions with the lacewing *Chrysoperla rufilabris*. **John Herbert** and R. F. Mizell. North Florida Research and Education Center, University of Florida, Quincy, FL.

2:48

17. A preliminary evaluation of silverleaf whitefly and *Tomato Yellow Leaf Curl Virus* (TYLCSV) in tomato using geographical information systems. **James Taylor** and D. Schuster. Gulf Coast Research & Education Center, 14625 CR 672, Wimauma, FL.

3:00 – 3:20

Break

3:24

18. Distribution of blueberry gall midge in rabbiteye blueberries and evaluation of emergence traps. **Craig R. Roubos** and O. E. Liburd. University of Florida, Entomology and Nematology Dept., Gainesville, FL.

3:36

19. Establishing identity of corn silk flies, *Euxesta* spp. **Gaurav Goyal**, G. J. Steck, G. S. Nuessly and J. L. Capinera. University of Florida, Entomology and Nematology Dept., Gainesville, FL.

3:48

20. The effects of larval herbivory by *Diaprepes* root weevil, *Diaprepes abbreviatus* (L.) (Coleoptera: Curculionidae) on four woody ornamental plant species. **Clifford G. Martin**, C. M. Mannion and B. Schaffer. Tropical Research and Education Center, University of Florida, 18905 SW 280 St., Homestead, FL.

4:00

21. Feeding deterrents for banded cucumber beetle (Coleoptera: Chrysomelidae) in latex of a resistant romaine lettuce. **Amit Sethi**, H. J. McAuslane, H. T. Alborn, R. T. Nagata and G. S. Nuessly. University of Florida, Entomology and Nematology Dept., Gainesville, FL.

4:12

22. Evaluating the survival of two candidate biological control agents (*Episimus utilis* and *Pseudophilothrips ichini*) on Brazilian peppertree genotypes. **Veronica Manrique**, J. P. Cuda, W. A. Overholt and D. Williams. Indian River Research & Education Center, University of Florida, 2199 South Rock Rd., Ft. Pierce, FL.

4:24

23. Effect of temperature on the biology of *Paracoccus marginatus* Williams and Granara de Willink (Homoptera: Pseudococcidae). **Kaushalya G. Amarasekare**, J.-H. Chong, C. M. Mannion and N. D. Epsky. Tropical Research and Education Center, University of Florida, 18905 SW 280 St., Homestead, FL.

4:36

24. Role of leaf sheath anatomy, toughness and lignification in resistance against southern chinch bug, *Blissus insularis* Barber (Hemiptera: Blissidae) in St. Augustinegrass lines. **Murugesan Rangasamy**, B. Rathinasabapathi, H. J. McAuslane, R. H. Cherry and R. T. Nagata. University of Florida, Entomology and Nematology Dept., Gainesville, FL.

6:30 – 8:30

RECEPTION / MIXER

Plaza Pre-function 2 and 3

TUESDAY MORNING, JULY 17, 2007

7:00 – 8:00

PAST PRESIDENT'S BREAKFAST

Verona

7:00 – 5:00

OFFICE

The Palms

8:00 – 4:00

REGISTRATION

The Palms Lobby

8:00 – 4:00

POSTER DISPLAY SESSION (Must be taken down by 4:00 PM)

Belle Haven

8:00 – 5:00

EXHIBITS

Plaza Pre-function 3

8:30 – 11:00

WORKSHOP: Venomous Arthropods of Florida Identification

Presenter: William H. Kern, Jr.

Bay Island

11:00 – 12:00

WORKSHOP: Termites of Florida Identification

Presenter: Rudolf H. Scheffrahn

Bay Island

8:30 – 11:10

SYMPOSIUM: Deployed War Fighter Protection (DWFP) Program Research Activities at the Mosquito and Fly Research Unit (USDA-ARS CMAVE, Gainesville, FL)

Organizer: Gary G. Clark

St. Armands II

8:30

25. Introduction to the DWFP Program. **Gary G. Clark.**

8:50

26. Entomology and contingency operations: how to support and protect today's deployed war fighter. **Peter J. Obenauer.** University of Florida, Entomology and Nematology Dept., Gainesville, FL.

9:15

27. Evaluation of visual targets, novel attractants, and commercial traps for house flies. **Chris Geden.**

9:40 – 10:00

Break

10:00

28. Molecular and physiological studies of gene regulation of *Aedes aegypti* development. **Liming Zhao.**

10:25

29. Evaluation of spatial repellents and commercial traps for protection against nuisance Diptera. **Jerry Hogsette**.

10:50

Summary of additional DWFP research activities. **Gary G. Clark**

8:23 – 9:40

CONCURRENT SESSION: Student Paper Competition, Master of Science

Moderators: Marco Toapanta and Daniel A. Hahn

St. Armands I

8:23

Introduction and Instructions. **Marco Toapanta**

8:28

30. Effect of host plants on successful parasitism of *Haeckeliana sperata* (Hymenoptera: Trichogrammatidae) on *Diaprepes abbreviatus* (Coleoptera: Curculionidae) eggs. **Daniel Carrillo**, R. E. Duncan and J. E. Peña. Tropical Research and Education Center, University of Florida, 18905 SW 280 St., Homestead, FL.

8:40

31. Tracking insect populations within organic vegetable systems to determine how residual populations from cover crops affect vegetable production. **Corraine A. Scott** and O. E. Liburd. University of Florida, Entomology and Nematology Dept., Gainesville, FL.

8:52

32. Efficacy of chlorpenapyr-treated wood to prevent colonization by dealates of the West Indian drywood termite, *Cryptotermes brevis*. **M. T. Ferreira** and R. H. Scheffrahn. Ft. Lauderdale Research and Education Center, University of Florida, 3205 College Ave., Davie, FL.

9:04

33. The effect of sex-ratio on bed bug aggregation behavior. **Margaret Pfister**. University of Florida, Entomology and Nematology Dept., Gainesville, FL.

9:16

34. Testing vapor toxicity of novel, volatile, low molecular weight esters on *Aedes aegypti* and *Musca domestica*. **Chaskopoulou Alexandra** and P. Koehler. University of Florida, Entomology and Nematology Dept., Gainesville, FL.

9:28

35. Efficacy of gel baits formulated with emamectin benzoate on pest cockroaches. **Barbara Bayer** and P. Koehler. University of Florida, Entomology and Nematology Dept., Gainesville, FL.

10:00 – 11:25

CONCURRENT SESSION: Agricultural Entomology

Moderators: Richard W. Mankin and **Russell F. Mizell**
St. Armands I

10:00

Introduction.

10:05

36. Acoustic assessments of the severity of grub infestations in Queensland sugarcane fields. **Richard W. Mankin**, P. Samson and K. Chandler. USDA-ARS CMAVE, 1700 SW 23rd Dr., Gainesville, FL.

10:15

37. Efficacy of rootworm and white grub control practices used by sweet potato growers in Louisiana. **Rick Story**, A. Hammond and J. Murray. Entomology Department, LSU AgCenter, 404 Life Sciences Building, Baton Rouge, LA.

10:25

38. Effect of fallow period weed control on wireworm populations. **Ron Cherry** and C. Rainbolt. Everglades Research and Education Center, University of Florida, Belle Glade, FL.

10:35

39. Effects of reduced phorate rates on wireworm damage to sugarcane. **Gregg S. Nuessly** and N. Larsen. Everglades Research and Education Center, University of Florida, Belle Glade, FL.

10:45

40. Picture winged flies (Ulidiidae) feeding on sweet corn in the Everglades Agricultural Area. **Gregg S. Nuessly**, N. Larsen and G. Goyal. Everglades Research and Education Center, University of Florida, Belle Glade, FL.

10:55

41. New from IPM Florida: the “Grower’s IPM Guide for Florida Tomato and Pepper Production”. **Norman C. Leppla** and J. L. Gillett. University of Florida, Entomology and Nematology Dept., Gainesville, FL.

11:05

42. Using multiple methods to analyze spatiotemporal dynamics of glassy-winged sharpshooters *Homalodisca vitripennis* at the landscape scale. **Tobin Northfield**, R. Mizell and C. Riddle. North Florida Research and Education Center, University of Florida, Quincy, FL.

11:15

43. Analysis of landscape level brown stink bug population dynamics using pheromone traps with geospatial and SADIE statistics. **Russell F. Mizell**, T. Northfield and C. Riddle. North Florida Research and Education Center, University of Florida, Quincy, FL.

12:00 – 2:30

AWARDS LUNCHEON

Plaza 3

TUESDAY AFTERNOON, JULY 17, 2007

2:35 – 4:30

SYMPOSIUM: Honey Bee

Organizer: William H. Kern, Jr.

St. Armands II

2:35

Introduction. **William H. Kern, Jr.**

2:40

44. An introduction to Africanized honey bees, *Apis mellifera scutellata*. **James D. Ellis**. University of Florida, Entomology and Nematology Dept., Gainesville, FL.

2:55

45. Current status of Africanized honey bees in Florida: 2007. **Jerry Hayes**. Florida Department of Agriculture and Consumer Services, Division of Plant Industries, Gainesville, FL.

3:10

46. How we identify Africanized honey bees: use of the FABIS and USDA AHB morphometric tests. **David Barnes** and J. D. Ellis. Florida Department of Agriculture and Consumer Services, Division of Plant Industries, Gainesville, FL.

3:40 – 4:00

Break

4:00

47. Colony structure and behavior as an indication of level of Africanization in *Apis mellifera*. **William H. Kern, Jr.** Ft. Lauderdale Research and Education Center, University of Florida, Davie, FL.

4:15

48. Colony collapse disorder update. **Jerry Hayes** and J. D. Ellis. Florida Department of Agriculture and Consumer Services, Division of Plant Industries, Gainesville, FL.

2:25 – 4:50

CONCURRENT SESSION: Urban Entomology / Biological Control

Moderators: Jeffrey P. Shapiro and

St. Armands I

2:25

Introduction.

2:30

49. Evaluation of the mosquito sentinel 360 trap in Florida residential environments.

Phillip E. Kaufman and J. F. Butler. University of Florida, Entomology and Nematology Dept., Gainesville, FL.

2:40

50. Response of *Lutzomyia spp.* to light emitting diode modified pickle jar traps. **R.**

S. Mann, P. E. Kaufman and J. F. Butler. University of Florida, Entomology and Nematology Dept., Gainesville, FL.

2:50

51. Mating affects the magnitude but not the timing of egg production in the flesh fly *Sarcophaga crassipalpis*. **Daniel A. Hahn**, M. N. Rourke and K. R. Milne. University of Florida, Entomology and Nematology Dept., Gainesville, FL.

3:00

52. An overlooked control method for a forgotten, but re-emerging pest – use of Vikane® gas fumigant for localized eradication of bed bugs, *Cimex lectularius*. **Ellen Thoms**. Dow AgroSciences, 7257 NW 4th Blvd. #20, Gainesville, FL.

3:10

53. Subterranean termites (*Reticulitermes spp.*) colony abundance and species composition in a north Florida longleaf pine orchard. **J. E. Eger**, E. L. Vargo, T. R. Juba and F. J. Wessels. Dow AgroSciences, 2606 S. Dundee St., Tampa, FL.

3:20

54. The Asian subterranean termite in Key West – a legendary infestation in the making. **Rudolf H. Scheffrahn** and M. J. Weinberg. Ft. Lauderdale Research and Education Center, University of Florida, Davie, FL.

3:30

55. The efficacy of Transport® termiticide clearing subterranean termite infested structures in Louisiana. **Bruce Ryser** and J. Ballard. FMC Corporation, 9703 Cypress Pond Ave., Tampa, FL.

3:40 – 4:00

Break

4:00

56. Life history and larval morphology of *Eurhinus magnificus* Gyllenhal (Coleoptera: Curculionidae), a new weevil to the United States. **B. J. Ulmer, Rita E. Duncan**, J. Prena and J. Peña. Tropical Research and Education Center, University of Florida, 18905 SW 280 St., Homestead, FL.

4:10

57. Identification tool for weevil biological control agents of aquatic and terrestrial weeds in the United States and Canada. **Muhammad Haseeb**, C. W. O'Brien, R. W. Flowers and M.T.K. Kairo. Center for Biological Control, Florida Agricultural and Mechanical University, 310 Perry Paige South, Tallahassee, FL.

4:20

58. Predatory potential of *Cryptolaemus montrouzieri* (Coleoptera: Coccinellidae) on different stages of *Planococcus citri* (Hemiptera: Pseudococcidae) in laboratory tests. E. P. Durán-Martínez, J. M. Villegas-Mendoza and **Ninfa M. Rosas-García**. Laboratorio de Biotecnología Ambiental Centro de Biotecnología Genómica Instituto Politécnico Nacional Blvd. Del Maestro s/n esq. Elías Piña Colonia Narciso Mendoza CP 88710 Reynosa Tamaulipas, México.

4:30

59. Nutrition for optimal predatory performance of adult female *Orius insidiosus*. **Jeffrey P. Shapiro**, S. R. Reitz, P. D. Shirk and S. M. Ferkovich. USDA-ARS CMAVE, 1700 SW 23rd Dr., Gainesville, FL.

4:40

60. Control of chilli thrips, *Scirtothrips dorsalis* Hood (Thysanoptera: Thripidae) by *Orius insidiosus* Say and entomopathogenic fungi, *Beauveria bassiana* and *Metarhizium anisopliae*. **D. R. Seal**, A. Palmateer, W. Klassen and C. Sabines. Tropical Research and Education Center, University of Florida, 18905 SW 280 St., Homestead, FL.

WEDNESDAY MORNING, JULY 18, 2007

8:00 – 10:00

REGISTRATION

The Palms Lobby

8:00 – 11:30

SYMPOSIUM: Invasive Species: Update on New Pests, Early Detection, and Management Strategies

Organizers: James Cuda and Adam Silagyi

St. Armands II

8:00

Welcome and opening remarks. **James Cuda**, University of Florida, Entomology and Nematology Dept., Gainesville, FL; **Adam Silagyi**, USDA-APHIS-PPQ, Gainesville, FL.

8:10

61. Florida's role in the Southern Plant Diagnostic Network (SPDN). **Amanda Hodges**. University of Florida, Entomology and Nematology Dept., Gainesville, FL.

8:25

62. Establishment of the UF/IFAS Invasive Species Coordinating Council. **James Cuda** and L. Osborne. University of Florida, Entomology and Nematology Dept., Gainesville, FL.

8:40

63. Overview of the Invasive Arthropods Working Group. **Lance Osborne**. Mid-Florida Research and Education Center, University of Florida, Apopka, FL.

8:55

64. Extension educational efforts on invasive species in Miami-Dade County. **Adrian Hunsberger**. Miami-Dade County Extension, University of Florida, Homestead, FL.

9:10

65. Using the distance diagnostic and identification system (DDIS) for early detection of invasive species. **Jiannong Xin**. IFAS Information Technology, University of Florida, Gainesville, FL.

9:25

66. Cooperative Agricultural Pest Survey (CAPS) Program: Federal and State perspectives. **Adam Silagyi** and T. Smith. USDA-APHIS-PPQ, Gainesville, FL.

9:40 – 10:00

Break

10:00

67. Update on laurel wilt and the exotic redbay ambrosia beetle, *Xyleborus glabratus*. **Bud Mayfield**. Division of Forestry, Florida Department of Agriculture and Consumer Services, Gainesville, FL.

10:15

68. New World invasion by the common lime swallowtail, *Papilio demoleus*: potential implications for Florida citrus. **Jaret Daniels**. McGuire Center for Lepidoptera and Biodiversity, Florida Museum of Natural History, Gainesville, FL.

10:30

69. The past, present and future of the red palm mite, *Raoiella indica* Hirst (Acari: Tenuipalpidae). **Cal Welbourn**. Division of Plant Industry, Florida Department of Agriculture and Consumer Services, Gainesville, FL.

10:45

70. Red palm mite: new pest threatening Florida's palms and prospects for biological control. **Amy Roda**, M. Hoy and J. E. Peña. USDA, APHIS, PPQ, Center for Plant Health Science and Technology, Subtropical Horticulture Research Station, Miami, FL.

11:00

71. Efficacy of acaricides against the red palm mite, *Raoiella indica* in Puerto Rico. J.C.V. Rodrigues, J. E. Peña, **Amy Roda**. USDA, APHIS, PPQ, Center for Plant Health Science and Technology, Subtropical Horticulture Research Station, Miami, FL.

11:15

Summary and conclusions. **Jim Cuda** and **Adam Silagyi**.

8:35 – 10:50

CONCURRENT SESSION: Horticultural Entomology

Moderators: David Hall and **Lukasz Stelinski**

St. Armands I

8:35

Introduction.

8:40

72. Intercropping of citrus and guava trees for management of Huanglongbing. **David G. Hall**, T. R. Gottwald, C. M. Nguyen, K. Ichinose, D. Q. Le and A. Beattie. USDA-ARS, U.S. Horticultural Research Laboratory, 2001 South Rock Rd., Ft. Pierce, FL.

8:50

73. Daily timing of and age at mating in the Asian citrus psyllid, *Diaphorina citri* (Hemiptera: Psyllidae). **Erik J. Wenninger** and D. G. Hall. USDA-ARS, U.S. Horticultural Research Laboratory, 2001 South Rock Rd., Ft. Pierce, FL.

9:00

74. Impact of dormant sprays on Asian citrus psyllid *Diaphorina citri* (Homoptera: Psyllidae) and its natural enemies in citrus. **Philip A. Stansly** and Jawwad A. Qureshi. Southwest Florida Research and Education Center, University of Florida, 2686 State Rd. 29 North, Immokalee FL.

9:10

75. Evaluation of rate, placement, and timing on effectiveness of Aldicarb applications for control of Asian citrus psyllid (Homoptera: Psyllidae) in citrus. **Jawwad A. Qureshi** and P. A. Stansly. Southwest Florida Research and Education Center, University of Florida, 2686 State Rd. 29 North, Immokalee FL.

9:20

76. Occurrence and control measures of citrus huanglongbing in Okinawa Japan. **Keiji Yasuda** and S. Kawano. Plant Disease and Insect Pest Management Section, Okinawa Prefectural Agricultural Research Center, Okinawa, Japan.

9:30

77. Distribution of *Anastrepha* spp. in carambola orchards: evidence for migration? **David Jenkins**. USDA-ARS Tropical Agriculture Research Station, 2200 Pedro A. Campos Ave., Suite 201, Mayaguez, Puerto Rico.

9:40 – 10:00

Break

10:00

78. Testis-specific expression of fluorescent proteins for sperm identification in transgenic fruit flies. G. J. Zimowska and **A. M. Handler**. USDA-ARS CMAVE, 1700 SW 23rd Dr., Gainesville, FL.

10:10

79. Dominant temperature sensitive genes for conditional lethality in transgenic fruit flies. **Nirmala Xavier** and A. M. Handler. USDA-ARS CMAVE, 1700 SW 23rd Dr., Gainesville, FL.

10:20

80. Climate mapping to predict spread of the root weevil *Diaprepes abbreviatus* and introduced natural enemies. **Stephen Lapointe**, D. Borchert and D. Hall. USDA-ARS, U.S. Horticultural Research Laboratory, 2001 South Rock Rd., Ft. Pierce, FL.

10:30

81. Potential for mating disruption of citrus leafminer, *Phyllocnistis citrella*. **Lukasz Stelinski** and M. Rogers. Citrus Research and Education Center, University of Florida, 700 Experiment Station Rd., Lake Alfred, FL.

10:40

82. Characterization of microsatellite loci in *Maconellicoccus hirsutus* (Hemiptera: Pseudococcidae) from the state of Nayarit, Mexico. H. Martínez-M., R. Rosas-Quijano, and **Ninfa M. Rosas-García**. Laboratorio de Biotecnología Ambiental Centro de Biotecnología Genómica Instituto Politécnico Nacional Blvd. Del Maestro s/n esq. Elías Piña Colonia Narciso Mendoza CP 88710 Reynosa Tamaulipas, México.