**PROGRAM**

**97th ANNUAL MEETING of the**

**FLORIDA ENTOMOLOGICAL SOCIETY**

**August 3 - 6, 2014 - Jupiter, FL**

**Monday Morning, August 4**

**9:20 AM– 5:00 PM - Bonito room**

**OFFICE/PRESENTATION PREVIEW - Collection of Presentations**

**8:00 AM– 5:00 PM**

**REGISTRATION**

***Registration Desk* – Gallery**

**Monday, 8:00 - 9:20 AM Sailfish Room**

**General Session**

**8:00 AM**

**Introduction:** Nan-Yao Su, President, Florida Entomological Society

**8:10 AM**

**President's Address: How does the Florida Entomological Society Measure Up to other State/Regional Entomological Societies in the US?** Nan-Yao Su**,** Ft. Lauderdale Research and Education Center,

IFAS, University of Florida, 3205 College Ave.

Davie, FL 33314. [nysu@ufl.edu](mailto:nysu@ufl.edu)

**8:30 AM - 9:20 AM**

**FES Pioneer Lecture Honoring Anthony C. Bellotti: A Tribute to Dr. Anthony C. Bellotti and His Contributions to Worldwide Classical Biological Control for Cassava**.Stephen Lapointe. USHRL ARS USDA, 2001 South Rock Road, Fort Pierce, FL 34945. [stephen.lapointe@ars.usda.gov](mailto:stephen.lapointe@ars.usda.gov)

**Coffee Break - 9:20-9:40 AM – Gallery**

**Monday, 9:40 AM - 10:45 AM - Amberjack room - Business Meeting**

**Monday, 9:40 AM- 5:00 PM - Marlin room**

**Poster Session 1 -** Authors present from 2:30 to 3:30 PM - Posters Down by 6:00 PM

[**DSP 1**] **Comparison of clear plastic sheets and panel traps for monitoring blueberry gall midge (*Dasineura oxycoccana* Johnson in rabbiteye blueberries in Florida.** Elena M. Rhodes and Oscar E. Liburd. University of Florida, Entomology and Nematology Department, Bldg. 970 Natural Area Dr., Gainesville, FL 32611. [erhodes@ufl.edu](mailto:erhodes@ufl.edu)

[**DSP 2**] **Phonoresponses of females of an Erebid moth to conspecific acoustic signals and to bat echolocation calls.** Raquel Casado, Orlando Benavides, Rosario Rodriguez, Gretert Montano, and Frank Coro. Natural and Social Sciences Department, InterAmerican Campus, Miami Dade College, 627 S.W. 27th Avenue, Miami, FL 33135. [raquel.casado001@mymdc.net](mailto:raquel.casado001@mymdc.net)

[**DSP 3**] **Phonoresponses of females of a moth with two-celled ears to ultrasonic signals present in their environment and applied at the same repetition rate.** Gretert Montano, Rosario Rodriguez, Orlando Benavides, Raquel Casado, and Frank Coro. Natural and Social Sciences Department, InterAmerican Campus, Miami Dade College, 627 S.W. 27th Avenue, Miami, FL 33135. [gretert.montano001@mymdc.net](mailto:gretert.montano001@mymdc.net)

[**DSP 4**] **Ambrosia beetles associated with laurel wilt-affected avocado orchards in south Florida.** Teresa Narvaez, Daniel Carrillo, Rita E. Duncan, Jorge E. Peña. University of Florida, Tropical Research and Education Center, Homestead, FL 33031. [tnarvaez1@ufl.edu](mailto:tnarvaez1@ufl.edu)

[**DSP 5**] **The prevalence of the cordovan phenotype in the African-derived honey bee (*Apis mellifera scutellata*) population in the Southeastern United States.** Ashley N. Mortensen and James D. Ellis. University of Florida, 970 Natural Area Drive, Gainesville, FL 32601. [mortensena@ufl.edu](mailto:mortensena@ufl.edu)

[**DSP 6**] **Attraction of insects to incandescent, compact fluorescent, halogen, and LED lamps in a light trap: Implications for light pollution and urban ecologies**. Michael J. Justice, Teresa C. Justice, Elizabeth A. Main. Unaffiliated. 265 Harrell Street, Appomattox, VA 24522. [arenivaga@att.net](mailto:arenivaga@att.net)

[**DSP 7**] **Correlation between Color Ingestion Indicator and Virus Acquisition.** Sana Shareef1 and Wayne Hunter2.1St Edward’s School, 1895 St. Edward’s Drive, Vero Beach, FL 32963; 2 USDA, ARS, U.S. Horticultural Research Laboratory, 2001 South Rock Road, Fort Pierce, FL 34945. [sanas@steds.org](mailto:sanas@steds.org)

**Monday, 9:40 - 12:05 AM - Sailfish room**

**Symposium: Biology, Ecology, and Management of Asian Citrus Psyllid**

**Organizer**:Dr.Philip A. Stansly.University of Florida, IFAS/SWFREC, Immokalee, FL 34142. [pstansly@ufl.edu](mailto:pstansly@ufl.edu)

**9:40 - Introduction, Phil Stansly**

**9:45**

[**1**] **Factors influencing transmission of the huanglongbing pathogen by the Asian citrus psyllid and methods for interrupting the transmission process.** Kirsten Pelz-Stelinski, Calum Russell, Mark Hoffman, and Heather Gibbard Kingdom. University of Florida – IFAS, Citrus Research and Education Center, 700 Experiment Station Rd Lake Alfred, FL 33850-2243.

**10:05**

[**2**] **Detecting and monitoring populations of Asian citrus psyllid.** David G. Hall. U. S. Horticultural Research Laboratory, USDA-ARS, 2001 South Rock Road, Fort Pierce, FL 34945. [David.Hall@ars.usda.gov](mailto:David.Hall@ars.usda.gov)

**10:25**

[**3**] **Citrus health management areas: An area-wide approach to psyllid management**. Michael E. Rogers and Brandon M. Page. University of Florida – IFAS Citrus Research & Education Center, Lake Alfred, FL 33850.

**10:45**

[**4**] **Insecticide resistance in Asian citrus psyllid: Scouting populations, changes in tolerance, and possible methods/tools to prevent resistance**. LL. Stelinski, M. Coy, N. Killiny, and S. Tiwari. University of Florida – IFAS Citrus Research and Education Center, 700 Experiment Station Rd Lake Alfred, FL 33850-2243.

**11:05**

[**5**] **Economic Injury levels for Asian citrus psyllid control in a citrus groves with high incidence of HLB**. Phil Stansly and Cesar Monzó, University of Florida- IFAS, Southwest Florida Research and Education Center, Immokalee, FL 34142. [pstansly@ufl.edu](mailto:pstansly@ufl.edu)

**11:25**

[**6**] **Mass production and release of *Tamarixia radiata* to augment control of Asian citrus psyllid (ACP), *Diaphorina citri* (Hemiptera:  Liviidae), in Florida.** Eric Rohrig1, Jawwad Qureshi2, Robin Stuart1 and Phil Stansly2; 1Florida Department of Agriculture and Consumer Services- Division of Plant Industry; 2University of Florida- IFAS, Southwest Florida Research and Education Center, Immokalee 34142.

**11:45**

[**7**] **Novel Asian citrus psyllid control strategies through targeted Interdiction of specific molecular processes**. Robert. G Shatters, Jr.1 J . Kent Morgan1; John Ramos1; Evelien Van Ekert2; Dov Borovsky3; and Charles Powell2; 1USDA, ARS, USHRL, Fort Pierce, FL; 2University of Florida, IRREC, Fort Pierce, FL 3Borovsky Consulting, Vero Beach, FL. [Robert.shatters@ars.usda.gov](mailto:Robert.shatters@ars.usda.gov)

**12:05 *Discussion and End of Symposium***

**Monday, 12:10 PM – 1:10 PM**

**Dolphin room**

**Graduate student Luncheon –**

**with Pioneer Lecturer, Stephen Lapointe**

**Monday, 12:05 PM -1:20 PM**

**Lunch on Your Own**

**Monday Afternoon, August 4th, 2014**

**1:20 PM- 3:17 PM - Pompano room**

**Master's Student Competition**

**Organizer**: Dr. Dan Hahn, Student Activities Committee Chair, Department of Entomology and Nematology**,** College of Agriculture and Life Sciences**.** [dahahn@ufl.edu](mailto:dahahn@ufl.edu).

**1:20 PM – M.S. Introduction**

**1:29**

[**8**] **From pavement to population genetics: Using citizen science data and ddRADseq to characterize the long-established pavement ant, *Tetramorium caespitum*, in North America.** Tyler Vitone, Rob Dunn, Andrea Lucky. Entomology and Nematology Department, University of Florida, 1881 Natural Area Dr., Steinmetz Hall, Gainesville, FL 32611. [tvitone@ufl.edu](mailto:tvitone@ufl.edu)

**1:41**

[**9**] **An evaluation of environmental and community factors on seasonal abundance of *Diaphorina citri* (Hemiptera: Liviidae).** Bradley Udell, Cesar Ferrer, Thomson Paris, Philip Stansly, Sandra Allan. USDA, ARS, CMAVE and University of Florida, 1600 SE 23rd Dr, Gainesville, FL 32608. [bradjudell@ufl.edu](mailto:bradjudell@ufl.edu)

**1:53**

[**10**] **Parasitoids of *Bemisia tabaci* in southwest Florida: Faunal composition, host plant associations, and non-target hosts.** Z. J. Lahey and P. A. Stansly University of Florida, Southwest Florida Research and Education Center, 2685 State Road 29 North, Immokalee, Florida 34142. [zjlahey@ufl.edu](mailto:zjlahey@ufl.edu)

**2:05**

[**11**]**Evaluating bio-rational insecticides against chilli thrips, *Scirtothrips dorsalis* Hood (Thysanoptera: Thripidae) in KnockOut® rose production.** Luis F. Aristizábal, Yan Chen, Ronald H. Cherry, Ronald D. Cave, and Steven P. Arthurs. University of Florida, IFAS, Mid-Florida Research and Education Center, 2725 Binion Road, Apopka, FL 32703. [larist@ufl.edu](mailto:larist@ufl.edu)

**2:17**

[**12**] **Alternative preservatives of insect DNA for citizen science and other low-cost applications**. Sedonia Steininger, Jiri Hulcr, Caroline Storer, Andrea Lucky. University of Florida, Dept. of Entomology and Nematology, Steinmetz Hall 970 Natural Area Drive, PO Box 110620, Gainesville, FL 32611-0620. [m.sedonia@ufl.edu](mailto:m.sedonia@ufl.edu)

**2:29**

[**13**] **Seasonal abundance and distribution of melonworm, *Diaphania hyalinata* L. (Lepidoptera: Pyralidae) in cucurbits in south Florida.** Babu Panthi, D.R. Seal, J.L. Capinera, G. Nuessly. University of Florida, Tropical Research and Education Center, 18905 SW 280th St, Homestead, FL-33031. [panthibabu@ufl.edu](mailto:panthibabu@ufl.edu)

**2:41**

[**14**] **Abundance and spatial distribution of the American serpentine leafminer, *Liriomyza trifolii* (Diptera: Agromyzidae) on snap bean and squash in southern Florida.** Shashan Devkota, D. R. Seal, C. Waddil, O. E. Liburd, and J. Scott Ferguson. University of Florida, Tropical Research and Education Center, 18905 SW 280th St, Homestead, FL-33031. [devkotasashan@ufl.edu](mailto:devkotasashan@ufl.edu)

**2:53**

[**15**]**Evaluation of novel detection methods for twospotted spider mite (*Tetranychus urticae* Koch) on strawberries, using imaging techniques.** Christopher D. Crockett, Oscar E. Liburd, and Amr Abd-Elrahman. University of Florida,Bldg. 970 Natural Area Drive, Gainesville, FL 32611. [crockettcd@ufl.edu](mailto:crockettcd@ufl.edu)

**3:05**

[**16**] **Investigating the effect of humidity on the reproductive capacity of *Frankliniella bispinosa* and *Frankliniella occidentalis* (Thysanoptera:Thripidae).** Tamika Garrick, Oscar E. Liburd, J. Funderburk.University of Florida,Bldg. 970 Natural Area Drive, Gainesville, FL 32611. [tgarrick09@ufl.edu](mailto:tgarrick09@ufl.edu)

***3:17 End of Master's Competition***

**Coffee Break 3:20 - 3:40 - Gallery**

**Monday, 3:40 - 5:45 PM - Pompano room**

**Ph.D. Student Competition**

**Organizer**: Dr. Dan Hahn, Student Activities Committee Chair, Department of Entomology and Nematology**,** College of Agriculture and Life Sciences**.** [dahahn@ufl.edu](mailto:dahahn@ufl.edu).

**3:40 Ph.D. Introduction**

**3:45**

[**17**] **Biology of rugose spiraling whitefly: Fecundity, survival, and parthenogenesis on *Strelitzia nicolai.*** Siavash Taravati and Catharine Mannion. University of Florida, Tropical Research and Education Center, 18905 SW 280th St., Homestead, FL 33031. [siavashtaravati@ufl.edu](mailto:siavashtaravati@ufl.edu)

**3:57**

[**18**] **Visual behavior of the Asian Citrus Psyllid *Diaphorina citri* (Hemiptera: Liviidae).** Thomson M. Paris, Sandra A. Allan and Philip A. Stansly. University of Florida, Entomology and Nematology Department, Bldg. 970 Natural Area Drive PO Box 110620, Gainesville, FL 32611. [thomsonparis@ufl.edu](mailto:thomsonparis@ufl.edu)

**4:09**

[**19**] **Frequency of managed European-derived honey bee (*Apis mellifera* L.) colony usurpation by African matriline honey bee swarms in the southeastern United States.** Ashley N. Mortensen and James D. Ellis. University of Florida, 970 Natural Area Drive, Gainesville, FL 32601. [mortensena@ufl.edu](mailto:mortensena@ufl.edu)

**4:21**

[**20**] **Visual learning may influence host selection in the Asian citrus psyllid, *Diaphorina citri* (Hemiptera: Liviidae).** Dara Stockton, X. Martini, A. Hoyte, & L. Stelinski. University of Florida- Citrus Research and Education Center, 700 Experiment Station Road, Lake Alfred, FL 33850. [dara.stockton@gmail.com](mailto:dara.stockton@gmail.com)

**4:33**

[**21**] **Potential distribution of *Myllocerus undecimpustulatus undatus* (Sri Lankan Weevil) in North America.** Anita S. Neal, Ronald D. Cave, and Rodrigo R. Diaz. Entomology & Nematology Dept., University of Florida, Indian River REC, Fort Pierce, FL 34945. [asn@ufl.edu](mailto:asn@ufl.edu)

**4:45**

[**22**] **Insecticidal effects of Vochysiaceae leaf extracts against a noctuid pest, *Trichoplusia ni* (Lepidoptera: Noctuidae) and the role of PBO as a synergist.** Wagner de Souza Tavares, Yasmin Akhtar, José Cola Zanuncio, Jesusa C. Legaspi, Murray B. Isman. Department of Plant Science,

Federal University of Viçosa, 36570-900, Viçosa, Minas Gerais State, Brazil. [wagnermaias@yahoo.com.br](mailto:wagnermaias@yahoo.com.br)

**4:57**

[**23**] **The innate immune system of the Asian citrus psyllid, *Diaphorina citri*.** Alex Arp, Wayne Hunter and Kirsten Pelz-Stelinski University of Florida Citrus Research and Education Center, 700 Experiment Station Rd, Lake Alfred, FL 33850. [aarp@ufl.edu](mailto:aarp@ufl.edu)

**5:09**

[**24**] **Effect of *Isaria fumosorosea* Wize on survival and leaf consumption of *Microtheca ochroloma* Stål (Coleoptera: Chrysomelidae).** Angie A. Niño, Cecilia Gámez-Herrera, and Pasco B. Avery. University of Florida, 2199 South Rock Road, Fort Pierce, FL 34945. [anino@ufl.edu](mailto:anino@ufl.edu)

**5:21**

[**25**] **Systemic insecticides and reflective mulch for Asian citrus psyllid (*Diaphorina citri* ) control in new citrus plantings.** Scott Croxton and Phil Stansly. UF/IFAS, Southwest Florida Research and Education Center, 2685 SR 29 N, Immokalee, FL 34142. [croxtsd@ufl.edu](mailto:croxtsd@ufl.edu)

**5:33**

[**26**] **Functional and behavioral response of *Tamarixia radiate* (Hymenoptera: Eulophidae) to different densities of its host, *Diaphorina citri* (Hemiptera: Psyllidae)**. Xulin Chen and Philip A. Stansly. University of Florida-IFAS, Southwest Florida Research and Education Center, 2685 State Road, 29 N., Immokalee FL 34142. [xulin527@ufl.edu](mailto:xulin527@ufl.edu)

***5:45 - End of Ph.D. Student Competition***

**Monday, 2:00 - 4:55 PM - Amberjack room**

**Symposium: Clayton McCoy Legacy, Impact on Citrus IPM and Invertebrate Pathology.**

**Organizers**: Dr. J. E. Peña, Tropical Research and Education Center, U FL, Homestead, FL and Dr. Lance Osborne, Mid-Florida Research and Education Center, Apopka, FL.

**2:00:**

[**27**] **Remembering Clayton W. McCoy Jr. 1938-2013: A video biography.** Lance Osborne, Mid-Florida Research & Education Center, 2725 S. Binion Road, Apopka, FL 32703-8504. [lsosborn@ufl.edu](mailto:lsosborn@ufl.edu)

**2:20**

[**28**] **Citrus rust mite economics,** David G. Hall, U.S. Horticultural Research Laboratory, USDA-ARS, 2001 South Rock Road, Fort Pierce, FL 34945. [David.Hall@ars.usda.gov](mailto:David.Hall@ars.usda.gov)

**2:40**

[**29**] **The road to improving biological control using entomopathogenic nematodes.** David Shapiro-Ilan, USDA-ARS, 21 Dunbar Rd. Byron, GA 31008. [David.Shapiro@ars.usda.gov](mailto:David.Shapiro@ars.usda.gov)

**3:00**

[**30**] **Taking a bite out of the evil weevil: ants, nematodes and biological control of *Diaprepes abbreviatus* in Florida citrus groves**. Robin J. Stuart, Dundee Biological Control Laboratory, DPI, FDACS, Dundee, FL33838. [Robin.Stuart@FreshFromFlorida.com](mailto:Robin.Stuart@FreshFromFlorida.com)

**3:20 - 3:40 – Coffee Break - Gallery**

**Clayton McCoy Symposium Continued**

**3:35**

[**31**] **Entomopathogenic fungi: Biological control of arthropod pests in Florida from past to present**. Pasco B. Avery, University of Florida/IFAS/Indian River Research and Education Center, 2199 South Rock Road, Ft. Pierce, FL 34945. [pbavery@ufl.edu](mailto:pbavery@ufl.edu)

**3:55**

[**32**] **Augmentation and enhancement of naturally-occurring entomopathogens as a means of biological control.** Wayne Gardner, Department of Entomology, University of Georgia, Griffin, GA. [wgardner@uga.edu](mailto:wgardner@uga.edu)

**4:15**

[**33**] **What we don’t see: trophic cascades and the role of native entomopathogenic nematodes.** Larry Duncan, University of Florida, IFAS, Citrus Research and Education Center, 700 Experiment Station Rd., Lake Alfred, FL 33850. [lwduncan@ufl.edu](mailto:lwduncan@ufl.edu)

**4:35**

[**34**] **Lessons to be learned from the classical biological control of *Diaprepes abbreviatus* using exotic egg parasitoids.** Jorge E. Peña1, C. McCoy2, Jacas, J3., Ulmer, B6, A. E. Diaz4, Duncan, R1, S. Lapointe5 and D. Hall5 ; 1University of Florida, Tropical Research and Education Center, Homestead, FL 33031;2UF-CREC, Lake Alfred; 3Universita Jaume I, Castello, Spain; 4CorpoICA, Colombia; 5USDA, ARS, Fort Pierce, FL; 6Syngenta, Basel, Switzerland. [jepena@ufl.edu](mailto:jepena@ufl.edu)

***4:55 Discussion and End of Symposium***

**Monday Evening, 6:30 - 8:30 PM**

**Mixer - The Terrace**

**Tuesday Morning, Aug 5th, 2014**

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

**8:00 AM – 5:00 PM - Bonito room**

**OFFICE/PRESENTATION PREVIEW - Collection of Presentations -**

**8:00 AM– 5:00 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 8**] **Cubeb oil lures: Sesquiterpene emissions and efficacy for attraction of redbay ambrosia beetle, *Xyleborus glabratus* (Coleoptera: Curculionidae: Scolytinae).** Paul E. Kendra, Wayne S. Montgomery, Jerome Niogret, Mark A. Deyrup, and Nancy D. Epsky. USDA-ARS, Subtropical Horticulture Research Station, 13601 Old Cutler Rd., Miami, FL 33158. [paul.kendra@ars.usda.gov](mailto:paul.kendra@ars.usda.gov)

[**DSP 9**] **Wine and vinegar-based attractants for the African fig fly (Diptera: Drosophilidae)**. Nancy D. Epsky, Micah A. Gill, C. Teri Allen, Dong H. Cha, and Peter J. Landolt. USDA/ARS, SHRS, 13601 Old Cutler Rd., Miami, FL 33158. [Nancy.Epsky@ars.usda.gov](mailto:Nancy.Epsky@ars.usda.gov)

[**DSP 10**] **Dioecy affects the performance of *Apocnemidophorus pipitzi* (Coleoptera: Curculionidae), a stem boring weevil of Brazilian Peppertree, *Schinus terebinthifolia*.** J.P. Cuda, J.L. Gillmore, B. F. Garcete-Barrett, J.C. Medal, and W.A. Overholt. UF/IFAS Entomology & Nematology Dept., Charles Steinmetz Hall Bldg. 970, Natural Area Drive, PO Box 110620, Gainesville, FL 32611-0620. [jcuda@ufl.edu](mailto:jcuda@ufl.edu)

[**DSP 11**] **Management of American serpentine leafminer, *Liriomyza trifolii* (Burgess) ((Insecta: Diptera: Agromyzidae).** D. R. Seal, C. M. Sabines and S. Devkota. University of Florida, Tropical Research and Education Center, Homestead, FL 33031. [dseal3@ufl.edu](mailto:dseal3@ufl.edu)

[**DSP 12**] **Effects of barometric pressure on acoustic behavior of the Asian citrus psyllid, *Diaphorina citri*.** Nina Zagvazdina and Richard Mankin. USDA, ARS, Center for Medical, Agricultural, and Veterinary Entomology, 1700 SW 23rd Dr, Gainesville, FL 32608. [Nina.Zagvazdina@ars.usda.gov](mailto:Nina.Zagvazdina@ars.usda.gov)

[**DSP 13**] **Susceptibility of strawberry varieties to** [***Tetranychus urticae* Koch**](http://www.google.com/url?sa=t&rct=j&q=&esrc=s&frm=1&source=web&cd=1&cad=rja&uact=8&sqi=2&ved=0CC4QFjAA&url=http%3A%2F%2Fentnemdept.ufl.edu%2Fcreatures%2Forn%2Ftwospotted_mite.htm&ei=m-CRU9jTE4nf8gGB6IFA&usg=AFQjCNEJpRXotC-sFzPSVLXPAhMRQLQh8w) **and abundance of *Neoseiulus californicus* within varieties.** Omotola G. Dosunmu, Annika T. Minott and Oscar E. Liburd. University of Florida, Entomology and Nematology Department, Building 970 Natural Area Drive, University of Florida, Gainesville, Florida 32611. [toladosunmu@ufl.edu](mailto:toladosunmu@ufl.edu)

[**DSP 14**] **Effects of RNAi treated plants on psyllid host preference.** Hava Stern, Wayne Hunter, and Eduardo Andrade. USDA, ARS, 2001 South Rock Road, Fort Pierce, FL 34945. [Wayne.hunter@ars.usda.gov](mailto:Wayne.hunter@ars.usda.gov)

**Tuesday, 8:30 AM-12:05 PM - Amberjack room**

**Symposium - Spotted Wing**

**Drosophila (SWD): Biology, Ecology and Management in Fruits**

**Organizer:** Dr. Oscar E. Liburd, Entomology and Nematology; Univ. of FL, Gainesville, FL

**8:30 Introductory Remarks**

**8:35**

[**35**] **Biology, ecology, and management of *Drosophila suzukii* in North Carolina.** Katharine A. Swoboda Bhattarai and Hannah J. Burrack NC State University, Raleigh NC 27695. [kaswobod@nsu.edu](mailto:kaswobod@nsu.edu)

**9:00**

[**36**] **Keeping the monster at bay: Monitoring and management of spotted wing drosophila.** Ashfaq Sial Ahmad. Department of Entomology, University of Georgia, Athens, GA 30602. [ashsial@uga.edu](mailto:ashsial@uga.edu)

**9:25**

[**37**] **Seasonal biology and management of spotted wing drosophila in Arkansas**. Donn T. Johnson1, Barbara Lewis1, Elena Garcia2, Curt Rom2, and Luke Freeman2, 1Department of Entomology and 2Department of Horticulture, University of Arkansas, Fayetteville, AR 72701. [dtjohnso@uark.edu](mailto:dtjohnso@uark.edu)

**9:50**

[**38**] **Florida situation: Distribution and management of spotted wing drosophila in Florida berry crops**. Oscar E. Liburd, Lindsy E. Iglesias and Teresia W. Nyoike. University of Florida, Entomology and Nematology Department, Building 970 Natural Area Drive, University of Florida, Gainesville, Florida 32611. [oeliburd@ufl.edu](mailto:oeliburd@ufl.edu)

**10:15 - 10:25 AM Coffee Break - Gallery**

**SW Drosophila Symposium Continued**

**10:25**

[**39**] **Drivers and stoppers of *Drosophila suzukii* populations and crop damage in commercial berry production**. Michael Seagraves. Driscoll’s, Watsonville, CA 95076 [michael.seagraves@driscolls.com](mailto:michael.seagraves@driscolls.com)

**10:50**

[**40**] **Wild blackberries and their role in spotted wing drosophila management**. Teresia W. Nyoike and Oscar E. Liburd. Entomology and Nematology Department, Building 970, Natural Area Drive, University of Florida, Gainesville, Florida 32611. [nyoiket@ufl.edu](mailto:nyoiket@ufl.edu)

**11:15**

[**41**] **Comparing spotted wing drosophila attraction to various fruit volatiles**. Cesar

Rodriguez-Saona1 John Abraham2, and Aijun Zhang3. 1Department of Entomology, Rutgers University, P.E. Marucci Center, 125A Lake Oswego Rd., Chatsworth, N.J. 08019, USA. 2Faculty of Science and Technology, Free University of Bozen-Bolzano, Piazza Università 5, 39100 Bolzano, Italy. 3USDA, ARS, Invasive Insect Biocontrol and Behavior Laboratory, 10300 Baltimore Ave., BARC-West, Beltsville, MD 20705. [crodriguez@aesop.rutgers.edu](mailto:crodriguez@aesop.rutgers.edu),

**11:40**

[**42**] **What makes a good host for *Drosophila suzukii*?** Lindsy E. Iglesias and Oscar E. Liburd. Entomology and Nematology Department, Building 970, Natural Area Drive, Gainesville, Florida 32611. [liglesias@ufl.edu](mailto:liglesias@ufl.edu)

***12:05 Discussion and End of Symposium***

**Tuesday, 9:00 AM-12:05 AM – Pompano room**

**Symposium – IPM in Florida**

**Agro-Ecosystems: What Have**

**We Learned So Far?**

**Organizers:** Dr. Vivek Kumar (Mid-Florida Research and Education Center, IFAS-UF), and Garima Kakkar (Ft. Lauderdale Research & Education Center, IFAS-UF)

**9:00 Introductory Remarks**

**9:05**

[**43**] **Management and mismanagement of pepper pests in Florida**. Phil Stansly. Southwest Florida Research and Education Center, University of Florida, IFAS, 2685 SR 29 N, Immokalee FL 34142 USA. [pstansly@ufl.edu](mailto:pstansly@ufl.edu)

**9:25**

[**44**] **Developing and implementing mating disruption for area-wide control of citrus leafminer and citrus canker disease**. Stephen L. Lapointe. USDA, ARS, U.S. Horticultural Research Laboratory, 2001 South Rock Road, Fort Pierce, FL 34945. [Stephen.lapointe@ars.usda.gov](mailto:Stephen.lapointe@ars.usda.gov)

**9:45**

[**45**] **Banker plant systems: Tools and tactics in managing key pest problems in ornamental production.** Lance S. Osborne and Cindy L. McKenzie. Mid-Florida Research and Education Center, University of Florida, 2725 Binion Road, Apopka, FL 32703. [lsosborn@ufl.edu](mailto:lsosborn@ufl.edu)

**10:05 AM - 10:25 AM Coffee Break Gallery**

**IPM Symposium Continued**

**10:25**

[**46**] **Pest problems in Florida tomato production**. Hugh A. Smith. Univ. Florida/IFAS/Gulf Coast REC, 14625 CR 672, Wimauma, FL, 33598. [hughasmith@ufl.edu](mailto:hughasmith@ufl.edu)

**10:45**

[**47**] **IPM of corn silk flies**. Greg Nuessly. Everglades Research and Education Center, University of Florida, IFAS, 3200 E. Palm Beach Rd., Belle Glade, FL USA. [gnuessly@ufl.edu](mailto:gnuessly@ufl.edu)

**11:05**

[**48**] **IPM of rugose spiraling whitefly in the landscape**. Catharine Mannion, Siavash Taravati, Anthony Boughton and Holly Glenn. UF/IFAS Tropical REC 18905 SW 280th Street Homestead, FL 33031. [cmannion@ufl.edu](mailto:cmannion@ufl.edu)

**11:25**

[**49] Development of a program integrating stockosorb® and zerogravity solution (BAM FX) for managing insect pests of vegetables in South Florida**. Dakshina R. Seal. UF/IFAS Tropical REC 18905 SW 280th Street Homestead, FL 33031. dseal3@ufl.edu

**11:45**

[**50**] **RNAi-based strategies to reduce Asian citrus psyllid (Hemiptera: Liviidae).** Wayne Hunter. USDA, ARS, U.S. Horticultural Research Laboratory, 2001 South Rock Road, Fort Pierce, FL 34945. [Wayne.hunter@ars.usda.gov](mailto:Wayne.hunter@ars.usda.gov)

***12:05 Discussion and End of Symposium***

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

**Awards Luncheon**

**Tuesday, 2:30 - 5:15 PM - Amberjack room**

**Symposium: How Can I tell if it’s Dead? Conducting Efficacy Trials with Notoriously Difficult to Work with Insects and Mites.**

**Organizers**: Dr. Catherine Long, Syngenta Crop Protection, Vero Beach FL; Dr. Craig Heim, FMC, Savannah, GA; and Dr. Scott Ferguson, Atlantic Turf & Ornamental Consulting, Vero Beach, FL.

**2:30 Introductory Remarks**

**2:35**

[**51**] **Trialing with Tetranychidae, design and methodology for effective spider mite efficacy tests.** Catherine Long, Syngenta Crop Protection, Vero Beach FL. [Catherine.long@syngenta.com](mailto:Catherine.long@syngenta.com)

**2:55**

[**52**] **A review of pepper weevil, *Anthonomus eugenii* (Cano) biology, management and development of control tactics.** James "Shine" Taylor, Field Development Rep., DuPont Crop Protection, Riverview, FL 33578. [james.e.taylor-1@dupont.com](mailto:james.e.taylor-1@dupont.com)

**3:15**

[**53**] **Field and greenhouse techniques for conducting trials with the American serpentine leafminer, *Liriomyza trifolii*: 30 years of "tricks".** Scott Ferguson, Atlantic Turf & Ornamental Consulting, Vero Beach, FL. [Scott@atoconsult.com](mailto:Scott@atoconsult.com)

**3:35 PM to 3:55 PM Coffee Break - Gallery**

**3:55**

[**54**] **Mealy bug testing in the industry setting: rearing to testing tricks to reduce headaches and confusion.** Tom Macom, Bayer Crop Science, 981 NC Hwy 42 East, Clayton, NC, 27527. [Tom.macom@Bayer.com](mailto:Tom.macom@Bayer.com)

**4:15**

[**55**] **Confirmed Kill and Battle Damage Assessment - Western Flower Thrips (*Frankliniella occidentalis*) and other challenging thrips species.** Shannon Morsello, Syngenta Crop Protection, Greensboro, NC. [shannon.morsello@syngenta.com](mailto:shannon.morsello@syngenta.com)

**4:35**

[**56**] **Challenges in designing and conducting field experiments to test insecticides on invasive pest species: the case of the Red Imported Fire Ant and the Asian Citrus Psyllid.** Alejandro Calixto, Dow AgroSciences, Wesley Chapel, FL. [aacalixto@dow.com](mailto:aacalixto@dow.com)

**4:55**

[**57**] **You Want Me to do What?** John Paige III, Bayer Environmental Science, Vero Beach, FL. [John.paige@bayer.com](mailto:John.paige@bayer.com)

***5:15 Discussion – End of Symposium***

**Tuesday, 2:30 - 4:43 PM - Pompano room**

**Submitted Papers Session 1**

**2:30 Introductory Remarks**

**2:35**

[**58**] **Developing a color indicator for virus acquisition in insects (Hemiptera: Cicadellidae).** Sana Shareef1 and Wayne Hunter2.1Saint Edward’s School, 1895 St. Edward’s Drive, Vero Beach, FL 32963; 2 USDA, ARS, U.S. Horticultural Research Laboratory, 2001 South Rock Road, Fort Pierce, FL 34945. [sanas@steds.org](mailto:sanas@steds.org)

**2:47**

[**59**] **Evaluation of *Encarsia guadeloupae* Viggiani for the control of the rugose spiraling whitefly in Florida.** Antonio W. Francis, Betty Threlkeld, Trevor Smith, and Pasco Avery. Florida Dept. of Agriculture and Consumer Services, Division of Plant Industry, 2725 S. Binion Road, Apopka, FL 32703. [antoniowfrancis@gmail.com](mailto:antoniowfrancis@gmail.com)

**2:59**

[**60**] **Evaluation of *Diaphorina citri* Kuwayama development and reproduction on *Zanthoxylum fagara* (L.).** Jawwad A. Qureshi, Susan E. Halbert, Dyrana N. Russell and Philip A. Stansly. Department of Entomology and Nematology, University of Florida/IFAS, Southwest Florida Research and Education Center, 2685 SR 29 N, Immokalee, FL 34142 [jawwadq@ufl.edu](mailto:jawwadq@ufl.edu)

**3:11**

[**61**] **Has the auditory system of the Polka-dot wasp moth with two-celled ears adapted for intraspecific acoustic communication?** Frank Coro. Natural and Social Sciences Department, InterAmerican Campus, Miami Dade College, 627 S.W. 27th Avenue, Miami, FL 33135 [fcoro@mdc.edu](mailto:fcoro@mdc.edu)

**3:23**

[**62**] **Temperature requirements and overwintering survival of *Lilioceris cheni*, a biological control agent of the air potato vine in Florida.** Veronica Manrique, Rodrigo Diaz, Melissa C. Smith, Ellen C. Lake, Paul D. Pratt, John Mass, Kristen Bowers, Stephen Hight, and William A. Overholt. University of Florida, Indian River Research & Education Center, 2199 South Rock Road, Fort Pierce, FL. [vero72@ufl.edu](mailto:vero72@ufl.edu)

**3:35 to 3:55 - Coffee Break - Gallery**

**Submitted Papers Session 1 Continued**

**3:55**

[**63**] **Influence of low oxygen conditions on the efficacy of irradiation as a phytosanitary treatment**. Catriona Condon1, Sabrina A. White1, Woodward D. Bailey2, Laura A. Jeffers3, Robert L. Meagher4 and Daniel A. Hahn1. **1** Department of Entomology and Nematology, University of Florida, Gainesville FL, 32611.2 USDA-APHIS-PPQ Subtropical Quarantine Inspection, Coral Gables, FL, 33158; 3 USDA-APHIS-PPQ CPHST AQI Raleigh, Raleigh NC, 27606; 4 USDA-ARS, CMAVE, Gainesville, FL, 32611.. [chcondon@ufl.edu](mailto:chcondon@ufl.edu)

**4:07**

[**64**] **Growth, survival, and reproductive behavior of *Metamasius callizona* (Chevrolat) (Coleoptera: Curculionidae) on different host bromeliads.** Teresa M. Cooper and Ronald D. Cave. University of Florida, Indian River Research and Education Center, 2199 South Rock Rd., Ft. Pierce, Florida 34945 [tmcooper@ufl.edu](mailto:tmcooper@ufl.edu)

**4:19**

[**65**] **Simpler is better: Fewer** **non-target insects trapped with a 4-component chemical lure versus a chemically more complex food-type bait for spotted wing drosophila.** Dong H. Cha, Stephen P. Hesler, Shinyoung Park, Todd B. Adams, Richard S. Zack, Helmuth Rogg, Gregory M. Loeb and Peter J. Landolt. USDA-ARS, Yakima Agricultural Research Laboratory, 5230 Konnowac Pass Rd., Wapato, WA 98951. [dong.cha@ars.usda.gov](mailto:dong.cha@ars.usda.gov)

**4:31**

[**66**] **Antennal and behavioral response of the Asian citrus psyllid to degradation products of citrus volatiles.** Justin George, Stephen Lapointe, Paul Robbins. USDA-ARS, USHRL,2001 South rock road, Fort pierce, FL 34952. [Justin.George@ars.usda.gov](mailto:Justin.George@ars.usda.gov)

***4:43 End of Submitted Papers Session 1***

**Wednesday, Aug 6th, 2014**

**8:00 AM – 10:30 AM - Gallery**

**REGISTRATION *Registration Desk***

**8:30 AM to 9:00 AM Coffee Break - Gallery**

**Wednesday, 9:00 - 10:29 - Pompano room**

**Submitted Papers Session 2**

**9:00 – Introductory Remarks**

**9:05**

[**67**] **Monitoring coffee berry borer, *Hypothenemus hampei* (Coleoptera: Curculionidae) populations with alcohol-based traps in coffee farms in Colombia.** Luis F. Aristizábal, Mauricio Jiménez, Alex E. Bustillo, Steven P. Arthurs. University of Florida, IFAS, Mid-Florida Research and Education Center, 2725 Binion Road, Apopka, FL 32703. [larist@ufl.edu](mailto:larist@ufl.edu)

**9:17**

[**68**] **Bio-rational insecticides used for mitigating the spread of whitefly *Bemisia tabaci* (Hemiptera: Aleyrodidae) on ornamental shipments from Florida.** Luis F. Aristizábal, Pasco B. Avery, Vivek Kumar, Jean H. Caldwell, Cindy L. McKenzie, and Lance S. Osborne. University of Florida, IFAS, Mid-Florida Research and Education Center, 2725 Binion Road, Apopka, FL 32703. [larist@ufl.edu](mailto:larist@ufl.edu)

**9:29**

[**69**] **Use of acoustic technology to monitor the time course of *Rhynchophorus ferrugineus* larval mortality in date palms after treatments with *Beauveria bassiana*.** Johari Jalinas, Berenice Güerri Agulló, R. W. Mankin R. López-Follana, L. V. Lopez-Llorca. US Department of Agriculture, Agriculture Research Service, Center for Medical, Agricultural, and Veterinary Entomology, 1700 SW 23rd Dr, Gainesville, FL 32608. [Richard.Mankin@ars.usda.gov](mailto:Richard.Mankin@ars.usda.gov)

**9:41**

[**70**] **Evaluation of a new spraying machine for barrier treatment and penetration of bifenthrin-barrier spray on vegetation against mosquitos.** Rui-De (Rudy) Xue. Anastasia mosquito control district,500 Old Beach Road, St. Augustine, FL 32080 [xueamcd@gmail.com](mailto:xueamcd@gmail.com)

**9:53**

[**71**] **Managing leafhoppers and aphids in Florida watercress**. Hugh A. Smith and Michelle S. Samuel-Foo. University of Florida/Institute of Food and Agricultural Sciences/Gulf Coast Research and Education Center, 14625 CR 672, Wimauma, FL, 33598. [hughasmith@ufl.edu](mailto:hughasmith@ufl.edu)

**10:05**

[**72**] **Fumigation of bed bugs, *Cimex lectularius* L. (Hemiptera: Cimicidae): Effective application rates for sulfuryl fluoride.** Thomas W. Phillips, Michael J. Aikins, Ellen Thoms, Joe DeMark and Changlu Wang. Dow AgroSciences, 7257 NW 4th Blvd, #20, Gainesville, FL 32607. [emthoms@dow.com](mailto:emthoms@dow.com)

**10:17**

[**73**] **Host-specificity tests with the kudzu bug, *Megacopta cribraria* (Hemiptera: Plataspidae) a new invader in southern USA.** Julio Medal, Susan Halbert, Trevor Smith, Bobbie Jo Davies, and Andrew Santa Cruz. **Florida Department of Agriculture, Division of Plant Industry. 1911 SW 34th Street. Gainesville, FL 32608.** [Julio.Medal@freshfromflorida.com](mailto:Julio.Medal@freshfromflorida.com)

***10:29 End of Submitted Paper Section 2***

***We thank our***

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***Thanks for your participation!***