**FLORIDA ENTOMOLOGY SOCIETY ANNUAL MEETING**

**June 19-22, 2022 - University of Florida, Gainesville, Florida**

**SCHEDULE OF MEETINGS AND FUNCTIONS**

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| **SUNDAY, June 19th** |  |  |
| **Meeting/Function** | **Time** | **Room / Location** |
| Registration | 3:00 PM – 6:00 PM | Steinmetz Admin |
| Poster Display Set-up | 3:00 PM – 6:00 PM | Steinmetz Hallways |
| Executive Board Meeting | 6:00 PM – 7:00 PM | 1014 Steinmetz |
| **MONDAY, June 20th** |  |  |
| Registration | 8:00 AM – 5:00 PM | Straughn Center Lobby |
| Poster display set up | 8:00 AM – 5:00 PM | Steinmetz Hallways |
| Opening Session | 8:25 AM – 10:00 AM | Straughn B+C |
| Welcome to Straughn Center – *Bobbie-Jo Caron* | 8:25 AM – 8:30 AM | Straughn B+C |
| Welcome to the meeting and introduce guest – *Jawwad Qureshi* | 8:30 AM – 8:35 AM | Straughn B+C |
| Welcome – *Scott Angle, Senior Vice President Agriculture & Natural Resources, UF/IFAS* | 8:35 AM – 8:45 AM | Straughn B+C |
| Local arrangements and meeting overview – *Scott Croxton* | 8:45 AM – 8:50 AM | Straughn B+C |
| Presidential Address – *Jawwad Qureshi*  | 8:50 AM – 9:05 AM | Straughn B+C |
| 2022 Pioneer Lecture honoring Marjorie Hoy – *Richard Roush*  | 9:05 AM – 10:00 AM | Straughn B+C |
| Coffee Break | 10:00 AM –10:30 AM | Straughn Pavilion |
| Presenters upload morning talks with moderators in all mtg rooms | 10:00 AM –10:30 AM | Straughn A & B+C |
| Symposium 1 – Thrips of Economic Importance: Taxonomic, Regulatory and Management Challenges | 10:30 AM – 11:45 AM | Straughn B+C |
| Student Competition: M.S. | 10:30 AM – 12:00 PM | Straughn A |
| Lunch on own | 12:00 PM – 1:30 PM |  |
| Graduate Student Luncheon with Pioneer Lecturer | 12:00 PM – 1:30 PM | Steinmetz 1031 |
| Presenters upload early afternoon talks with moderators in all mtg rooms | 1:00 PM –1:30 PM | Straughn A & B & C |
| Symposium 1 – Thrips of Economic Importance: Taxonomic, Regulatory and Management Challenges (continued) | 1:30 PM – 2:30 PM | Straughn A |
| Student Competition: M.S. (continued) | 2:30 PM – 3:00 PM | Straughn A |
| Student Competition: Ph.D. 1 | 1:30 PM – 3:00 PM | Straughn B |
| Student Competition: Ph.D. 2 | 1:30 PM – 3:00 PM | Straughn C |
| Coffee break | 3:00 PM – 3:30 PM | Straughn Pavilion |
| Presenters upload late afternoon talks with moderators in all mtg rooms | 3:00 PM – 3:30 PM | Straughn A & B & C |
| Student Competition: M.S. (continued) | 3:30 PM – 4:45 PM | Straughn A |
| Student Competition: Ph.D. 1 (continued) | 3:30 PM – 4:30 PM | Straughn B |
| Student Competition II: Ph.D. 2 (continued) | 3:30 PM – 4:30 PM | Straughn C |
| Dinner | 5:00 – 7:00 PM | On own |
| Dessert Mixer and Poster Session (student competition and submitted posters) – Authors present 7:00 to 9:00 PM  | 7:00 PM – 9:00 PM | Steinmetz lobby + courtyard |
| **TUESDAY, June 21st** |  |  |
| Registration (continued) | 8:00 AM – 5:00 PM | Straughn Foyer |
| Poster Session – Authors present 4:00 PM to 5:00 PM  | 8:00 AM – 6:00 PM | Straughn Pavilion |
| Symposium presenters upload morning talks with moderators in all mtg rooms | 8:00 AM – 8:30 AM | Straughn A & B+C |
| Symposium 2 – Landscape Ecology of Medically Important Insect Vectors | 8:30 AM – 10:00 AM | Straughn B+C |
| Symposium 3 – Detection, Mitigation, Compliance: The Regulatory Perspective of Pest Management | 8:30 AM – 11:30 AM | Straughn A |
| Coffee Break | 10:00 AM – 10:30 AM | Straughn Pavilion |
| Symposium 3 – Detection, Mitigation, Compliance: The Regulatory Perspective of Pest Management (continued) | 10:30 AM -11:30 AM | Straughn A |
| Awards Luncheon | 12:00 PM – 1:30 PM | Straughn Center B+C |
| Symposium presenters upload afternoon talks with moderators in all mtg rooms | 1:30 PM – 2:00 PM | Straughn A & B+C |
| Symposium 4 - Microbial-based Pest Control | 2:00 PM – 3:00 PM | Straughn B+C |
| Symposium 5 - Management of Invasive Pest Insects of Specialty Crops and Community Gardens | 2:00 PM – 3:00 PM | Straughn A |
| Coffee Break | 3:00 PM – 3:30 PM | Straughn Pavilion |
| Symposium 4 - Microbial-based Pest Control (continued) | 3:30 PM – 4:00 PM | Straughn B+C |
| Symposium 5 - Management of Invasive Pest Insects of Specialty Crops and Community Gardens continued (continued) | 3:30 PM – 5:00 PM | Straughn A |
| **Symposium 6 – Industry Updates** | 3:45 PM – 4:00 PM | Straughn B+C |
| Poster session (authors present) | 4:00 PM – 5:00 PM | Straughn Pavilion |
| Dinner on own | 5:00 – 7:00 PM | On own |
|  1. Wasp Woman movie, pizza and popcorn, and games 2. Night collecting in UF Natural Area Teaching Lab | 6:00 PM – 8:30 PM8:30 PM – 10:30 PM | Steinmetz 1031, 1027 NATL |
| **WEDNESDAY, June 22nd**  |  |  |
| Past President’s Breakfast | 7:00 AM – 8:00 AM | Metro Dinner |
| Registration Continued | 8:00 AM – 12:00 PM | Straughn Foyer |
| Workshop – Identification of scale insects, mealy bugs, and whiteflies – pre-registration required and limited to 25 attendees | 8:00 AM – 11:30 AM | Steinmetz 3118 |
| Presenters upload morning talks with moderators in both mtg rooms | 8:00 AM – 8:30 AM | Straughn A & B+C |
| Submitted papers 1 | 8:30 AM – 10:00 AM | Straughn A |
| Submitted papers 2 | 8:30 AM – 10:00 AM | Straughn B+C |
| Coffee Break | 10:00 AM – 10:30 AM | Straughn Pavilion |
| Submitted papers 1 (continued) | 10:30 AM – 11:30 AM | Straughn A |
| Submitted papers 2 (continued) | 10:30 AM – 11:45 AM | Straughn B+C |
| Florida Entomological Society annual business meeting  | 12:00 PM – 1:00 PM | Straughn Center B+C |
| Lunch on own | 1:00 – 2:30 PM |  |
| Potential afternoon activities – tour of Florida Department of Agriculture and Consumer Services Division of Plant Industry, self-pay tour of Butterfly Rainforest, Sweetwater Preserve bird walk | 2:30 PM - | various |

**DAILY SCHEDULE OF MEETINGS AND FUNCTIONS**

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| Coffee Break | 10:00 AM –10:30 AM | Straughn Pavilion |
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| **Symposium 1 – Thrips of Economic Importance: Taxonomic, Regulatory and Management Challenges** (Moderators: Smith, H., L. Osborne, and F. Soto-Adames) | 10:30 AM – 11:45 AM | Straughn B+C |
| * Using DNA to identify thrips –***Skarlinsky II, T.L.***
 | 10:30 AM – 10:45 AM | Straughn B+C |
| * Thrips-field identification resources and guides – ***Hodges, A.***
 | 10:45 AM – 11:00 AM | Straughn B+C |
| * To be or not to be?: Invasive thrips and regulatory action in Florida – ***Soto-Adames, F.N.***
 | 11:00 AM – 11:15 AM | Straughn B+C |
| * Chilli thrips, South Asia 1 dominates *Scirtothrips dorsalis* cryptic species complex in the United States – *Kumar, V.,* ***\*C. McKenzie****, and L. Osborne*
 | 11:15 AM – 11:30 AM | Straughn B+C |
| * *Franklinothrips vespiformis* a potential biological control agent for mites, thrips, and whiteflies in greenhouses – **\**Schoeller, E.N.****, C.L. McKenzie, K.S. Houben, J.M. Hogan, M.Z. Ahmed, and L.S. Osborne*
 | 11:30 AM – 11:45 AM | Straughn B+C |
| **Student Competition: M.S.** (Moderator Qureshi, J.) | 10:30 AM – 12:00 PM | Straughn A |
| * Beetle herding: development of strategies to optimize biological control of air potato using attractants - **\**Griesheimer, J.L.****, X. Martini, C. Minteer, A. Gaffke, S. Hight*
 | 10:30 AM – 10:45 AM | Straughn A |
| * Influence of *Brassica* variety on numbers of larval and pupal diamondback moth (*Plutella xylostella*) (Lepidoptera: Plutellidae) - ***\*Furuya, A.,*** *H. Smith, and J. Beuzelin*
 | 10:45 AM – 11:00 AM | Straughn A |
| * Use of conventional and organic insecticides to control rice stink bugs in Florida – **\**Camarozano, C.T.****, J.M. Beuzelin, M.M.S Barros, E.S. Resende, H.A. Smith, and M.T. VanWeelden*
 | 11:00 AM – 11:15 AM | Straughn A |
| * Predation efficacy of commercially available *Amblyseius swirskii* Athias-Henriot (Mesostigmata: Phytoseiidae) on strawberry pest *Tetranychus urticae* Koch (Trombidiformes: Tetranychidae) - ***\*Busuulwa, A.*** *and S. Lahiri*
 | 11:15 AM – 11:30 AM | Straughn A |
| * Can *Apis mellifera* be reared in vitro on irradiated royal jelly? ***–\*Standley, J.M.*** *and J.D. Ellis*
 | 11:30 AM – 11:45 AM | Straughn A |
| * Abundance of adult corn silk flies (Diptera: Ulidiidae) in sweet corn fields and adjacent habitats during the 2021-2022 growing season – **\**Pereira Lima, L.****, J. Beuzelin, M. M. de Souza Barros, D. Seal, and S. Allan*
 | 11:45 AM – 12:00 PM | Straughn A |
| Lunch on own | 12:00 PM – 1:30 PM |  |
| **Graduate Student Luncheon with Pioneer Lecturer Richard Roush** (Moderator: Croxton, S.) | 12:00 PM – 1:30 PM | Steinmetz 1031 |
| **Presenters upload early afternoon talks with moderators in all mtg rooms** | 1:00 PM –1:30 PM | Straughn A & B & C |
| **Symposium 1 – Thrips of Economic Importance: Taxonomic, Regulatory and Management Challenges** (Moderators: Smith, H., L. Osborne, and F. Soto-Adamses)(continued) | 1:30 PM – 2:30 PM | Straughn A |
| * Managing chilli thrips in Florida strawberry – ***Lahiri, S.***
 | 1:30 PM – 1:45 PM | Straughn A |
| * Thrips release and persistence as biological control agents of the weed Brazilian peppertree - ***\*Wheeler, G.S****., C. Minteer, E. Rohrig, R. Nestle, D. Halbritter, M. Rayamajhi, and E. Le Falchier*
 | 1:45 PM – 2:00 PM | Straughn A |
| * Development of a management program for controlling thrips and thrips transmitted tospovirus (TCSV) in tomato – **\**Seal, D.R.*** *and R. A. Khan*
 | 2:00 PM – 2:15 PM | Straughn A |
| * Research and extension efforts for *Megalurothrips usitatus* (Bagnall) management following its first detection in Florida - ***\*Mészáros, A.,*** *C.J. Frey, J.M. Beuzelin, H.A. Smith, and G. Frantz*
 | 2:15 PM – 2:30 PM | Straughn A |
| **Student Competition: M.S.** (Moderator: Qureshi, J.) (continued) | 2:30 PM – 3:00 PM | Straughn A |
| * Insect herbivore functional traits change across a disturbance gradient - ***\*Grosdidier, R.*** *and P. Hahn*
 | 2:30 PM – 2:45 PM | Straughn A |
| * Leveraging lawn plant communities for arthropod conservation in urban landscapes - **\**Carrol, K.C.*** *and A.G. Dale*
 | 2:45 PM – 3:00 PM | Straughn A |
| **Student Competition: Ph.D. 1** (Moderator: McAuslane, H.) | 1:30 PM – 3:00 PM | Straughn B |
| * Specificity of pathogen-induced plant volatiles from two viruses to vectoring and non-vectoring species of flower thrips - ***\*Strzyzewski, I.,*** *X. Martini, and J. Funderburk*
 | 1:30 PM – 1:45 PM | Straughn B |
| * Seasonal phenology of hibiscus mealybugs, *Nipaecoccus viridis* (Newstead), in central Florida citrus - ***\*Olabiyi, D.O****., L. Stelinski, and L.M. Diepenbrock*
 | 1:45 PM – 2:00 PM | Straughn B |
| * How to flies sense their protein stores?: Hexamerin proteins and reproductive behavior in the Caribly, *Anastrepha suspensa* – ***\*Short, C.****, J.D. Hatle, and D. Hahn*
 | 2:00 PM – 2:15 PM | Straughn B |
| * Evaluation of biopesticides for management of *Megalurothrips usitatus* (Bagnall) - ***\*Ivey, C.B.*** *and H.A. Smith*
 | 2:15 PM – 2:30 PM | Straughn B |
| * Susceptibility of *Aedes aegypti* to Mayaro virus infection under different environmental temperatures - ***\*Alomar, A****. and B. Alto*
 | 2:30 PM – 2:45 PM | Straughn B |
| * Evaluation of visual based trapping methods for ambrosia beetles associated with laurel wilt - \****Conover, D.,*** *X. Martini, and R.F. Mizell*
 | 2:45 PM – 3:00 PM | Straughn B |
| **Student Competition: Ph.D. 2** (Moderator: Nuessly, G.) | 1:30 PM – 3:00 PM | Straughn C |
| * Evaluation of strawberry cultivars for host plant resistance against chilli Thrips - **\**Adhikary, L.*** *and S. Lahiri*
 | 1:30 PM – 1:45 PM | Straughn C |
| * Screening new compounds against small hive beetles (*Aethina tumida*) with a novel acute toxicity bioassay and field trial - ***\*Kleckner, K.****, A. De Carolis, C. Jack, C. Stuhl, G. Formato, J.D. Ellis*
 | 1:45 PM – 2:00 PM | Straughn C |
| * Validated rearing and toxicological bioassay methods to tropical sod webworm, *Herpetogramma phaeopteralis* Guenée (Lepidoptera: Crambidae) - ***\*Campos, J.N.D.****, S.V. Paula-Moraes, M.M. Rabelo, and B. Unruh*
 | 2:00 PM – 2:15 PM | Straughn C |
| * Phenology of occurrence of *Helicoverpa zea* Boddie (Lepidoptera: Noctuidae) in the Florida Panhandle: weather association and host plant origin - ***\*Barbosa dos Santos, I.****, S.V. Paula-Moraes, J. Beuzelin, D. Hahn, C. Fraisse*
 | 2:15 PM – 2:30 PM | Straughn C |
| * Diversity and impact of local herbivorous insects on earleaf acacia in Florida - **\**Salgado, S.****, E. Le Falchier, and C. Minteer*
 | 2:30 PM – 2:45 PM | Straughn C |
| * Phoretic mites associated with ambrosia beetles in Florida avocados - ***\*Berto, M.M.*** *and D. Carrillo*
 | 2:45 PM – 3:00 PM | Straughn C |
| Coffee break | 3:00 PM – 3:30 PM | Straughn Pavilion |
| **Presenters upload late afternoon talks with moderators in all mtg rooms** | 3:00 PM – 3:30 PM | Straughn A & B & C |
| **Student Competition: M.S.** (Moderator Qureshi, J.) (continued) | 3:30 PM – 4:45 PM | Straughn A |
| * Ethovision: Video analysis of efficacy of potential biocontrol agents for *Diaphorina citri -* ***\*Coulsey. K****., C. Minteer, and T. Morawo*
 | 3:30 PM – 3:45 PM | Straughn A |
| * Assessment of *Diaphorina citri* populations and its control in high-density citrus plantings – \****Berisse, J.****, U. Albrecht, and J.A. Qureshi*
 | 3:45 PM – 4:00 PM | Straughn A |
| * The effect of temperature on larval development of *Calomela intemer*ata Lea (Coleoptera: Chrysomelidae), a potential biological control agent for *Acacia auriculiformis* – **\**Holmes, S.****, U. Mohammed, and C. Minteer*
 | 4:00 PM – 4:15 PM | Straughn A |
| * Host range testing of *Calomela intemerata* (Coleoptera: Chrysomelidae) – a potential biological control agent of earleaf acacia (*Acacia auriculiformis*) – ***\*Mohammed, U.****, E. Le Falchier, M. Smith, and C. Minteer*
 | 4:15 PM – 4:30 PM | Straughn A |
| * Ecological host range and potential non-target impacts of *Pseudophilothrips ichini* (Thysanoptera: Phlaeothripidae), a biological control agent of Brazilian peppertree, on plants native to Australia and the United States - ***\*Le Falchier, E.****, T. Telmadarrehei, M. Rafter, and C. Minteer*
 | 4:30 PM – 4:45 PM | Straughn A |
| **Student Competition: Ph.D. 1** (Moderator: McAuslane, H.) (continued) | 3:30 PM – 4:30 PM | Straughn B |
| * Determining *Pseudophilothrips ichini* preference between Brazilian peppertree plants exhibiting a hypersensitive response and plants susceptible to *Calophya* spp. for integrating biological control agents – **\**Carruthers, K.*** *and C. Minteer*
 | 3:30 PM – 3:45 PM | Straughn B |
| * Antibiotic treatment reduces *Candidatus Liberibacter asiaticus* abundance and acquisition by the Asian citrus psyllid, *Diaphorina citri* (Hemiptera: Liviidae) - ***\*Roldan, E.****, K. Webber, W. Meyer, H. Gossett, L.L. Stelinski, and K.S. Pelz-Stelinski*
 | 3:45 PM – 4:00 PM | Straughn B |
| * Management and population dynamics of pepper weevil *Anthonomus eugenii* Cano (Coleoptera: Curculionidae) in South Florida - ***\*Adeleye, V.*** *and D. Seal*
 | 4:00 PM – 4:15 PM | Straughn B |
| * Citrus leafminer populations, its natural enemies, and biotic mortality during spring and summer in Southwest Florida – ***\*Ismail, M.*** *and J. Qureshi*
 | 4:15 PM – 4:30 PM | Straughn B |
| **Student Competition: Ph.D. 2** (Moderator: Nuessly, G.) (continued) | 3:30 PM – 4:30 PM | Straughn C |
| * Understanding the efficacy of hexythiazox for managing twospotted spider mites in strawberry *–* ***\*Perry, C.****, M. Gireesh, and S. Lahiri*
 | 3:30 PM – 3:45 PM | Straughn C |
| * Examining the role of environmental variation in mediating plant defense traits and the effectiveness of biocontrol agents *-* ***\*Kaur, J.****, E. Kraus, E. Clifton, and P. Hahn*
 | 3:45 PM – 4:00 PM | Straughn C |
| * Distribution of *Diaphorina citri* (Hemiptera: Liviidae), its natural enemies, and biotic mortality between the border and interior of commercial citrus blocks - **\**Ali, M.,*** *and J. Qureshi*
 | 4:00 PM – 4:15 PM | Straughn C |
| * Assessing diurnal emergence and response of blueberry gall midge (Diptera: Cecidomyiidae) to various classes of insecticides - ***\*Lopez, M****. and O.E. Liburd*
 | 4:15 PM – 4:30 PM | Straughn C |
| Dinner | 5:00 – 7:00 PM | On own |
| **Dessert Mixer and Poster Session (regular and student competition)** – Authors present 7:00 to 9:00 PM  | 7:00 PM – 9:00 PM | Steinmetz lobby, hallways & courtyard |
| **Student Poster Competition** |  | Steinmetz hallways |
| 1. Behavioral management of diamondback moth (*Plutella xylostella*), using specialized pheromone and lure application technology (SPLAT) in cabbage. ***\*Muthomi, P.K****., O.E. Liburd, D. Seal, J. Beuzelin, and T. Morawo*, Entomology & Nematology Dept, IFAS, University of Florida, Gainesville, FL (MS)
 |
| 1. Bioaccumulation of brevetoxin in two filth fly families and transstadial presence. ***\*Taylor, C.E.****, J.R. Bloomquist, C.J. Geden, and E.R. Burgess IV*. Entomology & Nematology Dept, IFAS, University of Florida, Gainesville, FL (MS)
 |
| 1. Mosquito fauna in high floral and low floral microhabitats at a North Florida botanical garden, with special focus on the sugar meal ecology of *Coquilletidia perturbans*. **\**McDuffie****,* ***D****., D. Kline, O. Baker, W. Piwowarek, and E.R. Burgess IV*. Entomology & Nematology Dept, IFAS, University of Florida, Gainesville, FL (MS)
 |
| 1. Comparison of commercial lures for *Drosophila suzukii* (Diptera: Drosophilidae) in Florida blueberry plantings. ***\*Lambert, A.*** *and O.E. Liburd*. Entomology & Nematology Dept, IFAS, University of Florida, Gainesville, FL (MS)
 |
| 1. Identification of plant volatiles for integrated pest management of chilli thrips, *Scirtothrips dorsalis* Hood (Thysanoptera: Thripidae) in strawberry in Florida. *\*****Kaur, G.****, L. Stelinski, X. Martini, R. Mallinger, N. Boyd, and S. Lahiri*. Gulf Coast Research and Education Center, Entomology & Nematology Dept, IFAS, University of Florida, Wimauma, FL (PhD)
 |
| 1. Evaluation of silver nanoparticle as a control tool against adult mosquito vectors. *\*****Blore, K****., R. Baldwin, C. Batich, P. Koehler, R. Pereira, C. Jack, W. Qualls, and R. Xue*. Anastasia Mosquito Control District, St. Augustine, FL (PhD)
 |
| 1. Eriophyid mites as pests of tropical and subtropical plants in south Florida. ***\*De Giosa M.****, L. Ataide, and A.M. Revynthi*. Tropical Research and Education Center, Entomology & Nematology Dept, IFAS, University of Florida, Homestead, FL (PhD)
 |
| 1. Chironomid as a new model to study *Vibrio cholerae* colonization in aquatic invertebrates. ***\*Zhao, D.*** *and A.C.N. Wong*. Entomology & Nematology Dept, IFAS, University of Florida, Gainesville, FL (PhD)
 |
| 1. Weaponless males have larger testes. ***\*Boothroyd, J. C.****, S.M. Smit, S. Zlotnik, and C.W. Miller*. Entomology & Nematology Dept, IFAS, University of Florida, Gainesville, FL (PhD)
 |
| 1. Difference in abundance of gut surface proteins between nymphs and adults of the Asian citrus psyllid, *Diaphorina citri*. ***\*Tavares, C.****, R. Mishra, P. Ghobrial, and B. Bonning*. Entomology & Nematology Dept, IFAS, University of Florida, Gainesville, FL (PhD)
 |
| 1. Characterization of Amoebic Disease in a Colony of Western Honey Bees (*Apis mellifera*). ***\*Iredale, M.E.****, P.H.O. Viadanna, K. Subramaniam, E. Tardif, B. Bonning, and J. Ellis*. Entomology & Nematology Dept, IFAS, University of Florida, Gainesville, FL (PhD)
 |
| **Submitted posters** |  | Steinmetz hallways |
| 1. The zoophytophagous predator *Pilophorus clavatus* (Hemiptera: Miridae) induces plant defenses in citrus plants. *Dahmane, M., Urbaneja, A., Ruíz-Rivero, O., Alonso-Valiente, M., and* ***\*M. Pérez-Hedo***. Instituto Valenciano de Investigaciones Agrarias (IVIA). Centro de Protección Vegetal y Biotecnología, (IVIA), CV-315, Km 10.7, 46113 Moncada, Valencia, Spain
 |
| 1. Field attraction and aging study of 2- and 3- component food-based lures for the Caribbean fruit fly, *Anastrepha suspensa* (Diptera: Tephritidae) in south Florida. *Cloonan, K.R.,* ***\*A. Vázquez****, M.A. Gill, L.K. Mosser, J.H. Crane, D. Carrillo, and P.E. Kendra*. Subtropical Horticultural Research Station, USDA-ARS, Miami, FL
 |
| 1. Review of *Brevipalpus californicus* species complex and its association with transmission of dichorhaviruses. ***\*Tassi, A.D.****, R. Ochoa, and D. Carrillo*. Tropical Research and Education Center, Entomology & Nematology Dept, IFAS, University of Florida, Homestead, FL
 |
| 1. Ant community composition in a citrus grove in Florida reveals southern expansion of exotic ant *Pheidole obscurithorax*. ***\*Ascunce, M.S.****,**K. Carroll, P. Perez, P., A. Nisip, J.A. Qureshi, and E.M. Goss*. CMAVE, USDA-ARS, Gainesville, FL
 |
| 1. The evolution of mouthpart plasticity in leaf-footed cactus bugs. Jarrett, B.J.M., **\**K. Sherman****, M. Graham, C. Parker, J.C. Boothroyd, and C.W. Miller*. Entomology & Nematology Dept, IFAS, University of Florida, Gainesville, FL
 |
| 1. Variation in chemical defense among closely related species. ***\*Palmer, J.*** *and P. Hahn*. Entomology & Nematology Dept, IFAS, University of Florida, Gainesville, FL
 |
| 1. Seasonal occurrence of Chilli thrips (*Scirtothrips dorsalis*) in citrus. *\*****Liesenfelt, T.****, A. Chuang, and L. Diepenbrock*. Citrus Research and Education Center, Entomology & Nematology Dept, IFAS, University of Florida, Lake Alfred, FL
 |
| 1. The effect of male-male competition on female injury. *\*****Li, Y.,*** *G. Raina, B. Jarrett, and C. Miller*. Entomology & Nematology Dept, IFAS, University of Florida, Gainesville, FL
 |
| 1. Selectivity of acaricides in administration via different routes to the predatory mite *Amblyseius largoensis.* ***\*Della Vechia, J.A.****, D.J. Andrade, A.L. Roda, and D. Carrillo*. Tropical Research and Education Center, Entomology & Nematology Dept, IFAS, University of Florida, Homestead, FL
 |
| 1. Evaluation of novel release device of repellents for the Asian Citrus Psyllid, *Diaphorina citri* Kuwayama (Hemiptera: Psyllidae). *\*****Pérez Cordero, L.,*** *X. Martini, A. Chuang, L. Stelinski, and L. Diepenbrock*. Highlands County Extension, IFAS, University of Florida, Sebring, FL
 |
| 1. High performance thin layer chromatography to identify components of tea tree oil attractive to male Mediterranean Fruit Flies (Diptera: Tephritidae). *\*****Vázquez, A.,*** *N. Tabanca, and P.E. Kendra*. Subtropical Horticultural Research Station, USDA-ARS, Miami, FL
 |
| 1. A new *Mimorista* species in Florida and cladistics of Nomophilini (Lepidoptera: Crambidae). ***Hayden, J.E.*** Florida State Collection of Arthropods, FDACS-DPI, Gainesville, FL
 |
| 1. Insecticide resistance detection and management of Caribbean fruit fly, *Anastrepha suspensa* using plant essential oils. *\*****Yang, X.,*** *N. Tabanca, and P.E. Kendra*. Subtropical Horticultural Research Station, USDA-ARS, Miami, FL
 |
| 1. Nutrition quality may affect competitive injuries in leaf-footed cactus bugs. ***\*Gayatri, R.****, L. Yichen, J. Benjamin, and C. Miller*. Entomology and Nematology Dept, IFAS, University of Florida, Gainesville, FL
 |
| 1. *Listronotus sparsus* (Say), an emerging weevil pest of celery and parsley in southern Florida. *\*****Mészáros, A.****, J.M. Beuzelin, K.E. Schnepp, and C.J. Frey*. Palm Beach County Extension, IFAS, University of Florida, West Palm Beach, FL
 |
| 1. Thrips species in pepper relay-cropped after strawberry (Fragaria x ananassa) in Florida. ***\*Estaing S.****, H.A. Smith, and S. Lahiri*. Gulf Coast Research and Education Center, Entomology and Nematology Dept, IFAS, University of Florida, Wimauma, FL
 |
| 1. Pesticide degradation rates influenced by growing citrus under a protective screen. *Ebert, T., R. Schumann, \*****L. Diepenbrock****, and A. Schumann*. Gulf Coast Research and Education Center, Entomology & Nematology Dept, IFAS, University of Florida, Wimauma, FL
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| **TUESDAY, June 21st**  |  |  |
| Registration (continued) | 8:00 AM – 5:00 PM | Straughn Foyer |
| Poster Session – Authors present 4:00 PM to 5:00 PM  | 8:00 AM – 5:00 PM | Straughn Pavilion |
| **Symposium presenters upload morning talks with moderators in both mtg rooms** | 8:00 AM – 8:30 AM | Straughn A & B+C |
| **Symposium 2 – Landscape Ecology of Medically Important Insect Vectors** (Moderators: Campbell, L. and E. Martin) | 8:30 AM – 9:45 AM | Straughn B+C |
| * Symposia introduction – \**Campbell, L.P. and \*E.M. Martin*
 | 8:30 AM – 8:45 AM | Straughn B+C |
| * Trends and opportunities in tick-borne disease mapping - ***\*Lippi, C.A.*** *and S.J. Ryan*
 | 8:45 AM – 9:00 AM | Straughn B+C |
| * Correlations between landcover and mosquito community composition and potential implications for West Nile virus transmission risk in Manatee County, FL – **\**Bauer, A.M.****, S. Whitehead, R.P. Guralnick, M.F. Sallam, and L.P. Campbell*
 | 9:00 AM – 9:15 AM | Straughn B+C |
| * Spatiotemporal distributions of West Nile virus in Florida using 2018 mosquito control and public health surveillance data - ***\*Tavares, Y.****, J.F. Day, B.V. Giordano, B. Eastmond, and L.P. Campbell*
 | 9:15 AM – 9:30 AM | Straughn B+C |
| * Biotic and abiotic factors influencing the transmission of West Nile virus in Florida - \****Brendel, L.A.****, S.A. Allan, L.P. Campbell, P.G. Hahn, A.C. Hodges, and E.M. Martin*
 | 9:30 AM – 9:45 AM | Straughn B+C |
| **Symposium 3 – Detection, Mitigation, Compliance: The Regulatory Perspective of Pest Management** (Moderators: Rohrig, E. and K. Fairbanks) | 8:30 AM – 10:00 AM | Straughn A |
| * The role of entomology in safeguarding Florida agriculture: A regulatory perspective - **\**Smith, T.*** *and G. Hodges*
 | 8:30 AM – 8:45 AM | Straughn A |
| * Challenges associated with regulating vectored plant pathogens – ***Halbert, S.E.***
 | 8:45 AM – 9:00 AM | Straughn A |
| * Plant and Apiary Inspection: protecting Florida from unwanted plant and apiary pests – ***Reed, M.***
 | 9:00 AM – 9:15 AM | Straughn A |
| * Bureau of Pest Eradication and Control (PE&C) – Detect and Protect – ***Walker, C.***
 | 9:15 AM – 9:30 AM | Straughn A  |
| * ENPP: an overview of the bureau activities – ***Skelley, P.***
 | 9:30 AM – 9:45 AM | Straughn A |
| * Protecting Florida from Tephritid fruit fly pests – ***Rohrig, E.***
 | 9:45 AM – 10:00 AM | Straughn A |
| Coffee Break | 10:00 AM – 10:30 AM | Straughn Pavilion |
| **Symposium 3 – Detection, Mitigation, Compliance: The Regulatory Perspective of Pest Management** (Moderators: Rohrig, E. and K. Fairbanks)(continued) | 10:30 AM – 12:00 PM | Straughn A |
| * The regulatory authority and responsibilities of the Florida Department of Agriculture and Consumer Services, Division of Plant Industry, Permit Section – ***Casuso, N.***
 | 10:30 AM – 10:45 AM | Straughn A |
| * Snail invasions: a story of success –***Shaw, T.***
 | 10:45 AM – 11:00 AM | Straughn A |
| * Surveying for pests of regulatory significance in Florida: Cooperative Agricultural Pest Survey (CAPS) Program – **\**Danner, B.****, and K. Ashman*
 | 11:00 AM – 11:15 AM | Straughn A |
| * Technique development: rearing, research, and 3D printing – ***Dickens, K.***
 | 11:15 AM – 11: 30 AM | Straughn A |
| * Reporting a pest or disease to FDACS-DPI - ***Fairbanks, K.***
 | 11:30 AM – 11:45 AM | Straughn A |
| **Awards Luncheon** | 12:00 PM – 1:30 PM | Straughn Center B+C |
| **Symposium presenters upload afternoon talks with moderators in both mtg rooms** | 1:30 PM – 2:00 PM | Straughn A & B+C |
| **Symposium 4 - Microbial-based Pest Control** (Moderator: Wong, A.) | 2:00 PM – 3:00 PM | Straughn B+C |
| * Efficacy of entomopathogenic fungus-based products applied against the citrus red mite, *Panonychus citri* (Acari: Tetranychidae), under laboratory conditions - ***\*Duren. E.B.****, E.P. Demard, P.B. Avery, J. Qureshi, and R.D. Cave*
 | 2:00 PM – 2:15 PM | Straughn B+C |
| * Measuring the response to *Drosophila suzukii* to yeast baited Scentry lures - ***\*Brown, J.****, A. Wong, and O. Liburd*
 | 2:15 PM – 2:30 PM | Straughn B+C |
| * Utilization of entomopathogens for the suppression of invasive ants - ***\*Oi, D.*** *and S. Valles*
 | 2:30 PM – 2:45 PM | Straughn B+C |
| * Development of microbial-based tools to improve management of *Drosophila suzukii* - ***Wong, A.C.***
 | 2:45 PM – 3:00 PM | Straughn B+C |
| **Symposium 5 - Management of Invasive Pest Insects of Specialty Crops and Community Gardens** (Moderator: Haseeb, M.) | 2:00 PM – 3:00 PM | Straughn A |
| * Use of machine learning to assist in design of improved methods to disrupt mating behavior of *Diaphorina citri -* ***\*Mankin, R.****, S. Senthil, and S. McNeill*
 | 2:00 PM – 2:15 PM | Straughn A |
| * Eco-based pest management of specialty crops in high tunnels - ***\*Legaspi, J.C.*** *and A. Bolques*
 | 2:15 PM – 2:30 PM | Straughn A |
| * Are predatory mites effective as biological agents to suppress the Southern Red Mite, *Oligonychus ilicis* in blueberry plants? - ***\*Marucci, R.C.****, S.E. Rubber, and O.E. Liburd*
 | 2:30 PM – 2:45 PM | Straughn A |
| * Status and management of *Tuta absoluta* (Lepidoptera: Gelechiidae) – **\**Sharma, A.*** *and R. Muniappan*
 | 2:45 PM – 3:00 PM | Straughn A |
| Coffee Break | 3:00 PM – 3:30 PM | Straughn Pavilion |
| **Symposium 4 - Microbial-based Pest Control** (Moderator: Wong, A.)(continued) | 3:30 PM – 4:00 PM | Straughn B+C |
| * Targeting *Candidatus Liberibacter asiaticus* and endosymbionts of the Aisan citrus psyllid, *Diaphorina citri* Kuwayama (Hemiptera: Liviidae), using antisense oligonucleotides - **\**Pelz-Stelinski, K.S.****, W.B. Hunter, and A. Sandoval Mojica*
 | 3:30 PM – 3: 45 PM | Straughn B+C |
| * Parasitoid plays as Trojan horse in the horizontal transmission of Wolbachia - ***Ahmed, M.Z.***
 | 3:45 PM – 4:00 PM | Straughn B+C |
| **Symposium 5 - Management of Invasive Pest Insects of Specialty Crops and Community Gardens continued** (Moderator: Haseeb, M.)(continued) | 3:30 PM – 5:00 PM | Straughn A |
| * Management of melon thrips, *Thrips palmi* Karny, an invasive pest of specialty crops in South Florida - ***Seal, D.R.***
 | 3:30 PM – 3: 45 PM | Straughn A |
| * Management of chilli thrips in southern highbush blueberries – ***Liburd, O.E.***
 | 3:45 PM – 4:00 PM | Straughn A |
| * Integrated Pest Management (IPM) tactics for control of Asian citrus psyllid and citrus pest complex - **\**Qureshi, J.A.****, G. Rugno, S. Al-Shami, and E. Demard*
 | 4:00 PM – 4:15 PM | Straughn A |
| * Spotted Lanternflies (*Lycorma delicatula*) are attracted to 60-Hz vibrational stimuli - **\**Rohde, B.B.****, I. Canlas, M. Cooperband, and R.W. Mankin*
 | 4:15 PM – 4:30 PM | Straughn A |
| * Pepper Weevil (Coleoptera: Curculionidae) oviposition and feeding behaviors in wild, ornamental and consumable peppers in Florida - **\**Haseeb, M.,*** *Y. Chabaane, P. Wu, B. Benrey, R. Zhang, J.C. Legaspi, and L.H.B. Kanga*
 | 4:30 PM – 4:45 PM | Straughn A |
| * Toxicity of some ready-to-use and common garden pesticides to blue orchard bees and leafcutter bees - **\*Joshi, N.**, O. Kline, J. Belsky
 | 4:45 PM – 5:00 PM | Straughn A |
| **Symposium 6 – Industry Updates** (Moderator: Croxton, S.) | 4:00 PM – 4:30 PM | Straughn B+C |
| * Is a career in industry right for you? - ***Croxton, S.***
 | 4:00 PM – 4:15 PM | Straughn B+C |
| * The power of botanical insecticides – ***Hull, M.***
 | 4:15 PM – 4:30 PM | Straughn B+C |
| **Poster session (authors present)** | 4:00 PM – 5:00 PM | Straughn Pavilion |
| Dinner on own |  |  |
| 1. Wasp Woman movie, pizza and popcorn, and games2. Night collecting in UF Natural Area Teaching Lab | 6:00 PM – 8:30 PM8:30 PM – 10:30 PM | Steinmetz 1031, 1027 NATL |

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| **WEDNESDAY, June 22nd** |  |  |
| Past President’s Breakfast | 7:00 AM – 8:00 AM | Metro Dinner |
| Registration (continued) | 8:00 AM – 12:00 PM | Straughn Foyer |
| **Workshop** **– Identification of scale insects, mealy bugs, and whiteflies – pre-registration required and limited to 25 attendees** (Moderator: Powell, E.) | 8:00 AM – 11:30 AM | Steinmetz 3118 |
| **Presenters upload morning talks with moderators in both mtg rooms** | 8:00 AM – 8:30 AM | Straughn A & B+C |
| **Submitted papers 1** (Moderator: Carrillo, D.) | 8:30 AM – 10:00 AM | Straughn A |
| * Developing management options for Lebbeck mealybug (*Nipaecoccus viridis* Newstead), a polyphagous invasive mealybug in Florida citrus - **\**Diepenbrock, L.M.****, Olabiyi, D.O., Gaines, K.C., Stelinksi, L.L., and E.G. Middleton*
 | 8:30 AM – 8:42 AM | Straughn A |
| * The Asian citrus psyllid *Diaphorina citri*: the greatest threat to Mediterranean citriculture - ***\*Urbaneja, A.****, A. Tena, C. Gallego, M.A. Forner-Giner, and M. Pérez-Hedo*
 | 8:42 AM – 8:54 AM | Straughn A |
| * Vacuolar ATPases gene targets of RNAi to control Asian citrus psyllid, *Diaphorina citri* - ***\*Saberi, E.****, Mondal, M. Hossain, J.R. Paredes-Montero, J.K. Brown and J.A. Qureshi*
 | 8:54 AM – 9:06 AM | Straughn A |
| * Surveillance of *Diaphorina citri* populations from Florida reveals reduced susceptibility to cyantraniliprole and thiamethoxam - *Chen, X.,* ***\*J. Qureshi****, and L. Stelinski*
 | 9:06 AM – 9:18 AM | Straughn A |
| * Assessment of *Amblyseius swirskii* for suppressing *Diaphorina citri* - ***\*Rugno, G.R.*** *and J. Qureshi*
 | 9:18 AM – 9:30 AM | Straughn A |
| * Predation of *Adalia bipunctata* (Coleoptera: Coccinellidae) on *Diaphornia citri* and *Leuronota fagarae* (Hemiptera: Psylloidea) psyllids - **\**Al-Shami, S.A.*** *and J.A. Qureshi*
 | 9:30 AM – 9:42 AM | Straughn A |
| * The lychee erinose mite: pest status in Florida and management - ***\*Revynthi, A.M.****, L.M. Silva Ataide, M.A. Canon, P.E. Kendra, N. Tabanca, J. Hammond, R. Ochoa, and D. Carrillo*
 | 9:42 AM – 9:56 AM | Straughn A |
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| **Submitted papers 2** (Moderator: *Xue, R.*) | 8:30 AM – 10:00 AM | Straughn B+C |
| * Classical biocontrol of the cactus moth: an update on host range testing of a braconid parasitoid - **\**Benda N.****, A. Pappas, K. Fairbanks, E. Rohrig*
 | 8:30 AM – 8:42 AM |  |
| * Advances in the Systematics of Platygastridae -***Talamas, E****.*
 | 8:42 AM – 8:54 AM | Straughn B+C |
| * Role of DNA barcoding in solving species complex: *Olepa* a classical example - ***Kalawate, A.***
 | 8:54 AM – 9:06 AM | Straughn B+C |
| * Parasitic personalities: consistent individual differences in behavior in a facultatively parasitic mite - ***\*Durkin, E.,*** *A. Roth, and C. Keiser*
 | 9:06 AM – 9:18 AM | Straughn B+C |
| * The Broward College Insect Collection (BROW:BCIC): A tool to support NSF s-STEM scholars and a possible new collaborator for you in South Florida! - **\**Serrano, D.*** *and C. Sammon*
 | 9:18 AM – 9:30 AM | Straughn B+C |
| * Organizing a statewide initiative on beekeeping: The UF/IFAS Honey Bee Extension and Education Team (HBEET) - ***\*Vu., A.*** *and J. Ellis*
 | 9:30 AM – 9:42 AM | Straughn B+C |
| * Traumatic mating in the Galerucini (Coleoptera: Chrysomelidae: Galerucinae) - ***Flowers, R.W.***
 | 9:42 AM – 9:56 AM | Straughn B+C |
| Coffee Break | 10:00 AM – 10:30 AM | Straughn Pavilion |
| **Submitted papers 1** (Moderator: Carrillo, D.)(continued) | 10:30 AM – 11:30 AM | Straughn A |
| * Potential natural enemies of the Lychee Erinose Mite (*Aceria lichii*), an invasive pest of lychee plants in Florida - ***\*Ataide, L.M.S.****, M. De Giosa, D. Carrillo, and A.M. Revynthi*
 | 10:30 AM – 10:42 AM | Straughn A |
| * Implications of the Brown Marmorated Stink Bug on specialty crops in Florida - ***\*Alake, G.,*** *A. Hodges, and C. Frey*
 | 10:42 AM – 10:54 AM | Straughn A |
| * Determination of the discriminating concentration towards permethrin for surveying resistance in *Amblyomma americanum* - **\**Kaplan, Z.D.****, E.A. Richardson, C.E. Taylor, P.E. Kaufman, and \*E.N.I. Weeks*
 | 10:54 AM – 11:06 AM | Straughn A |
| * Utilizing reflective mulch for chilli thrips management in strawberry - ***\*Gireesh, M.****, H.A. Smith, and S. Lahiri*
 | 11:06 AM – 11:18 AM | Straughn A |
| * Assessing larval pupation success of *Pseudophilothrips ichini* (Hood) under different soil moisture contents, and water treatments  - ***\*Telmadarrehei, T.****, E. Kariuki, E. Le Falchier, and C. Minteer*
 | 11:18 AM – 11:30 AM | Straughn A |
| **Submitted papers 2** (Moderator: *Xue, R.*)(continued) | 10:30 AM – 11:42 AM | Straughn B+C |
| * The chemical landscape of *Phragmites australis -* ***\*Gaffke, A.****, A.Glassmire, A. Salgado, R. Diaz, M. Stout, H. Lee, and J. Cronin*
 | 10:30 AM – 10:42 AM | Straughn B+C |
| * Behavioral response of the hibiscus bud weevil, *Anthonomus testaceosquamosus* Linell (Coleoptera: Curculionidae) to hibiscus buds and *Anthonomus* spp. male pheromone lures - ***\*Greene, A.D.****, Y. Velazquez Hernandez, N. Tabanca, K. Cloonan, P. E. Kendra, and A.M. Revynthi*
 | 10:42 AM – 10:54 AM | Straughn B+C |
| * Survey of potential pest and beneficial arthropods in chickpea in Florida - ***\*Rhodes, E.M.****, A. Babar, M.E. Swisher, and O.E. Liburd*
 | 10:54 AM – 11:06 AM | Straughn B+C |
| * Non-target impact of CDC-autocidal gravid traps (AGO) for control of container-inhabiting mosquitoes *–* ***Xue, R.***
 | 11:06 AM – 11:18 AM | Straughn B+C |
| * Potential of entomopathogenic nematodes to control the Hibiscus Bud Weevil *Anthonomus testaceosquamosus* (Coleoptera: Curculionidae) - ***\*Vargas, G.,*** *Y. Velazquez-Hernandez, and A.M. Revynthi*
 | 11:18 AM – 11:30 AM | Straughn B+C |
| * Integrated pest & pollinator management strategies for ornamental plant production - ***\*Mach, B.****, J. Daniels, A. Dale*
 | 11:30 AM – 11:42 AM | Straughn B+C |
| **Florida Entomological Society annual business meeting**  | 12:00 PM – 1:00 PM | Straughn Center B+C |
| Lunch on own | 1:00 – 2:30 PM |  |
| Potential afternoon activities – ask us for recommendations - self-pay tour of Butterfly Rainforest, Sweetwater Preserve bird walk | 2:30 PM - | various |