

Monday, November 14

10:00 AM - 5:00 PM	FMCA Committee Meetings	Harbor/Galleon Room
10:00 AM - 6:00 PM	Registration	Ocean Ballroom Foyer
10:00 AM - 5:00 PM	Exhibitor Set-up	Atlantic Ballroom
2:00 PM - 4:00 PM	FMCA Board Meeting	Hammock Board Room
3:00 PM - 5:00 PM	Young Professional's Event	Mantanza Room
5:30 PM - 7:00 PM	Opening Reception with Exhibitors	Atlantic Ballroom

Tuesday, November 15

7:00 AM - 5:00 PM	Registration	Ocean Ballroom Foyer
8:00 AM - 10:00 AM	General Session I	Ocean Ballroom
10:00 AM - 10:30 AM	Networking Break with Exhibitors	Atlantic Ballroom
10:30 AM - 12:00 PM	General Session II	Ocean Ballroom
12:00 PM - 1:30 PM	Lunch with Exhibitors	Atlantic Ballroom
1:30 PM - 3:00 PM	General Session III	Ocean Ballroom
3:00 PM - 3:30 PM	Networking Break with Exhibitors	Atlantic Ballroom
3:30 PM - 5:00 PM	General Session IV	Ocean Ballroom
5:30 PM - 7:00 PM	Presidential Reception	Center Courtyard

Wednesday, November 16

7:30 AM - 5:00 PM	Registration	Ocean Ballroom Foyer
8:00 AM - 10:00 AM	General Session V	Ocean Ballroom
10:00 AM - 10:30 AM	Networking Break with Exhibitors	Atlantic Ballroom
10:30 AM - 12:00 PM	General Session VI & FMCA Business Meeting	Ocean Ballroom
12:00 PM - 1:30 PM	Lunch with Exhibitors	Atlantic Ballroom
12:00 PM - 1:30 PM	Director's Luncheon	Mantanzas Room
12:00 PM - 3:30 PM	Commissioner's Luncheon	East Flagler MCD
1:30 PM - 3:00 PM	General Session VII	Ocean Ballroom
3:00 PM - 3:30 PM	Networking Break	Atlantic Ballroom
3:30 PM - 5:00 PM	General Session VIII	Ocean Ballroom
5:30 PM - 6:30 PM	Reception & Silent Auction	Atlantic Ballroom Foyer
6:30 PM - 8:30 PM	Awards Banquet	Atlantic Ballroom
8:30 PM - 10:00 PM	FMCA 100 Year Reception	Event Lawn

Thursday, November 17

8:00 AM - 5:00 PM	Registration	Ocean Ballroom Foyer
8:00 AM - 10:00 AM	General Session IX	Ocean Ballroom
10:00 AM - 10:30 AM	Networking Break	Ocean Ballroom Foyer
10:00 AM - 12:00 PM	FMCA Board Meeting	Hammock Board Room
10:30 AM - 12:00 PM	General Session X	Ocean Ballroom

General Session I | Moderator: Chris Lesser

8:00 AM - 8:05 AM	Call to Order & Announcements Chris Lesser, FMCA President
8:05 AM - 8:25 AM	Presidential Address Chris Lesser, FMCA President
8:25 AM - 8:55 AM	Keynote Address: A Century of Waging War on the Mosquito Menace: The Florida Mosquito Control Association at 100 Gordan Patterson, Professor, Florida Tech
8:55 AM - 9:10 AM	AMCA Update Robert Cartner, AMCA South Atlantic Representative
9:10 AM - 9:20 AM	Special District Accountability Legislation Chris Lyon, Legislative Liaison
9:20 AM - 9:35 AM	Wing Beats Update Dennis Moore, Editor-In-Chief
9:35 AM - 9:45 AM	FL Department of Agriculture & Consumer Services 2022 Update Marah Clark, FL Department of Agriculture & Consumer Services
9:45 AM - 10:00 AM	Web GIS – How a Single Source of Information Benefits Your Organization Chad Minter, Frontier Precision

General Session II | Moderator: Mark Latham

10:30 AM - 10:45 AM	Impact of § 934.50 Florida Statute and associated legislation on mosquito control drone operations Patrick Linn, Keira Lucas, Peter Brake, Collier Mosquito Control District
10:45 AM - 10:55 AM	Brevard County Mosquito Control District's Emerging UAS (Drone) Program Joseph Faella, Brevard County Mosquito Control
10:55 AM - 11:10 AM	Evaluation of a novel macrocyclic lactone-based adulticide to target pyrethroid resistant mosquito species in Collier County Keira J Lucas, Rebecca Heinig, Rachel B Bales, Nate Phillips, Richard Ryan, Collier Mosquito Control District
11:10 AM - 11:25 AM	Evaluating the efficacy of Metalarv S-PT as a pre-flood treatment against salt marsh species <i>Aedes taeniorhynchus</i> Beth Kovach, Charlotte County Mosquito & Aquatic Weed Control
11:25 AM - 11:35 AM	Updates and improvements to caged mosquito field trials Madeleine Schmitz, Kattie Morris, Andrew Rivera, Clarke Mosquito Control
11:35 AM - 11:45 AM	Evaluation systems for spatial repellents against ticks Dr. Muhammad Farooq, Anastasia Mosquito Control District
11:45 AM - 12:00 PM	Field evaluation of autocidal gravid ovitraps and sirenix traps against container mosquitoes in Saint Augustine, Northeastern Florida Dena Autry, Anastasia Mosquito Control District

General Session III | Moderator: Casey Crockett

1:30 PM - 1:45 PM	Impacts of differential mosquito control treatment regimens on insecticide susceptibility status of <i>Aedes aegypti</i> (Diptera: <i>Culicidae</i>) Casey Crockett, ADAPCO & Red River Specialties
1:45 PM - 2:00 PM	Statewide <i>Ae. aegypti</i> , <i>Ae. albopictus</i> , and <i>Cx. quinquefasciatus</i> adult insecticide resistance findings Eva Buckner, UF IFAS Florida Medical Entomology Laboratory
2:00 PM - 2:15 PM	Trials, Tears and Tenacity: Why Valent BioSciences Spent 10 Years Developing ReMoa Tri Chris Byrne, Beth Ranson, Valent BioSciences
2:15 PM - 2:30 PM	Semi-field comparison of OmniPrene™ G and Altosid® Pellets with DR- tech for the control of susceptible <i>Aedes aegypti</i> larvae in Manatee County Samantha Ramirez, Manatee County Mosquito Control District
2:30 PM - 2:45 PM	Determining insecticide resistance mechanisms and efficacy of formulated pesticides on a population of <i>Culex quinquefasciatus</i> collected from Louisiana Neil Sanscrainte, USDA ARS Center for Medical, Agricultural & Veterinary Entomology
2:45 PM - 3:00 PM	Relating laboratory insecticide resistance assays to field interventions Alden Estep, USDA ARS Center for Medical, Agricultural & Veterinary Entomology

Tuesday, November 15, 2022

General Session IV | Moderator: Katie Williams

- 3:30 PM - 3:45 PM Evaluating BG-Counter performance in surveilling Collier County's diverse mosquito populations | Atom Rosales, Collier Mosquito Control District
- 3:45 PM - 4:00 PM Will history repeat itself? Could *Aedes aegypti* be re-displaced by *Aedes albopictus* from the re-established area in the City of Gainesville, Florida?" | Peter Jiang, City Gainesville Mosquito Control Services
- 4:00 PM - 4:15 PM Why is Dengue so important? A clinical and epidemiological overview | Erika Lopatynsky, Takeda Pharmaceutical USA, Inc.
- 4:15 PM- 4:25 PM Sentinel Chicken Program in Polk County | Hugo Ortiz, Polk County Parks & Natural Resource, Mosquito Control
- 4:25 PM - 4:35 PM Love for Sentinels in the time of Bird Flu: A Romantic Journey of one District's Biosecurity Update | Max Dersch, Manatee County Mosquito Control District
- 4:35 PM - 4:50 PM Environmental factors influencing West Nile virus transmission in Florida | Estelle M. Martin, Brendel, L.A., S.A. Allan, L.P. Campbell, P.G. Hahn, A.C. Hodges, University of Florida Entomology & Nematology
- 4:50 PM - 5:00 PM Anastasia Mosquito Control District's Surveillance Trapping Program | Steven T. Smoleroff, Anastasia Mosquito Control District

Wednesday, November 16, 2022

General Session V | Moderator: Samantha Ramirez

- 8:00 AM- 8:10 AM Aging field-collected *Aedes aegypti* from the Florida Keys | Catherine A. Pruszynski, Florida Keys Mosquito Control District
- 8:10 AM - 8:25 AM Adaptation, Evolution, and Innovation: The Dodd Short Courses | Shelley Whitehead, Whitehead Entomology Consulting, LLC
- 8:25 AM - 8:40 AM New Calibration Calculators and Swath Characterization Cloud Applications | Leanne Lake, Valent BioSciences
- 8:40 AM - 8:55 AM Field flight activity of mosquitoes and *Culicoides* biting midges | Vilma Montenegro Castro, UF IFAS Florida Medical Entomology Laboratory
- 8:55 AM - 9:10 AM Potential transmission of *Francisella tularensis* between raptors by louse flies (Diptera: *Hippoboscidae*) | Morgan Rockwell, Travis E. Wilcoxon, Jane Seitz, Jacques Nuzzo, UF IFAS Florida Medical Entomology Laboratory
- 9:10 AM - 9:25 AM Host associations of *Triatoma sanguisuga* in Florida (Hemiptera: *Reduviidae*) Nathan Burkett-Cadena, Chan Bhosale, Samantha Wisely, Tanise Stenn, Norman Beatty, UF IFAS Florida Medical Entomology Laboratory
- 9:25 AM - 9:40 AM Helicopters and Hymenoptera: Methods for monitoring non-target effects of aerial adulticides on local pollinators in Manatee County | Jacob Hart, Manatee Mosquito Control District
- 9:40 AM - 9:50 AM Establishing evidence-based action thresholds for *Aedes*, *Culex*, and *Anopheles* mosquito abundance in different operational environments | Dr. Vindhya Aryaprema, Anastasia Mosquito Control District
- 9:50 AM- 10:00 AM Leveraging robotics and AI for automated sex sorting, identification, and pooling | Patrick Keougn, Hanan Lepek, Senecio Robotics

General Session VI | Moderator: Mike Riles

- 10:30 AM - 10:45 AM A Checklist of the Mosquitoes of Florida | Mike Riles, Central Life Sciences, Roxanne Connelly CDC
- 10:45 AM - 11:00 AM Surveillance Trap Composition Across Brevard County | Bridget Coff, Maxwell Reynolds, Brevard County Mosquito Control
- 11:00 AM - 11:15 AM Does prior exposure to Dengue influence insecticide sensitivity? | Robert Idrige, USDA ARS Center for Medical, Agricultural & Veterinary Entomology
- 11:15 AM - 11:30 AM Rapid detection of arboviruses directly from mosquito saliva | Dongmin Kim, UF IFAS Florida Medical Entomology Laboratory
- 11:30 AM - 12:00 PM FMCA Business Meeting: Bylaws, Financial Statement & Election | Chris Lesser, FMCA President

General Session VII | Moderator: Andrea Leal

- 1:30 PM - 1:40 PM FKMCD-Oxitec Project Update | Andrea Leal, Florida Keys Mosquito Control District
- 1:40 PM - 1:52 PM **Student Competition:** Host associations of biting midges (Diptera: Ceratopogonidae: *Culicoides*) near sentinel chicken surveillance locations in Florida | Kristin E. Sloyer, Nathan Burkett-Cadena, UF IFAS Florida Medical Entomology Laboratory
- 1:52 PM - 2:04 PM **Student Competition:** Evaluation of silver nanoparticle as a control tool against adult mosquito vectors | Kai Blore, UF IFAS Florida Medical Entomology Laboratory
- 2:04 PM - 2:16 PM **Student Competition:** Environmental factors influencing *Aedes* container species distribution in Saint Johns County | Kassidy Caride, Florida State University
- 2:16 PM - 2:28 PM **Student Competition:** Extrinsic incubation temperature impacts on infection and transmission of Mayaro virus in *Aedes aegypti* from Florida | Abdullah A. Alomar, Barry Alto, UF IFAS Florida Medical Entomology Laboratory
- 2:28 PM - 2:45 PM Creating a Good Laboratory Practice Program at Anastasia Mosquito Control District | Whitney Qualls, Anastasia Mosquito Control District
- 2:45 PM - 3:00 PM Optimizing predictive modeling of West Nile virus vector *Culex nigripalpus* using climate and mosquito surveillance data | Robert Straser, Keira Lucas, Rebecca Heinig, Collier County Mosquito Control District

General Session VIII | Moderator: Keira Lucas

- 3:30 PM - 3:45 PM West Nile Virus Surveillance in Sentinel Chickens and Mosquitoes in Panama City Beach, from 2014-2020 | Bryan V. Giordano, Broward County Mosquito Control, Mike T. Riles, Dale Martin, Cindy Mulla, Lee Duke, Edward Summers, James Clauson, Lindsey P., Beach Mosquito Control District
- 3:45 PM - 4:00 PM Gone Fishin': The Evolution of the mosquito fish program of Collier Mosquito Control District | Rachel Bales, Atom Rosales, Jesse DeBella, Robin King, Keira Lucas, Rebecca Heinig, Collier County Mosquito Control
- 4:00 PM - 4:15 PM Operations In Citrus County - Taking A More Proactive Approach | Shiela Young, Citrus County Mosquito Control District
- 4:15 PM - 4:30 PM Improvements to ULV Truck Applications in the Florida Keys: Moving from Gas to Electric | Mikki J Coss, Florida Keys Mosquito Control District
- 4:30 PM - 4:45 PM Development of a *Mansonia* control program at Collier Mosquito Control District | Rebecca Heinig, Rachel Bales, Peter Brake, Andrew Weiss, Jesse DeBella, Keira Lucas, Collier County Mosquito Control District
- 4:45 PM - 5:00 PM Survey for Tire-inhabiting Mosquito Larvae (Diptera: *Culicidae*) from Tire Shops in Polk County, Florida | Jackson Mosley, Polk County Parks & Natural Resources Mosquito Control

Thursday, November 17, 2022

Session IX | Moderator: Jillian Meek

- 8:00 AM - 8:15 AM Undoing the creation of doubt and undermining on social media | Jillian Meek, Pasco County Mosquito Control District
- 8:15 AM - 8:30 AM Partnering to control *Aedes aegypti* populations: Building relationships with the public to change behaviors and to protect public health | Mikki J Coss, Florida Keys Mosquito Control District
- 8:30 AM - 8:45 AM CMCD's boundary expansion: Two crazy years of politics, activists, and outreach | Robin King, Collier Mosquito Control District
- 8:45 AM - 9:00 AM Creating a School Education Program as a Non-Educator | Andrea McKinney, Collier Mosquito Control District
- 9:00 AM - 9:15 AM Legend of Bromeliads | Nicole Graves, East Flagler Mosquito Control District
- 9:15 AM - 9:30 AM Fighting the bite in Miami-Dade County: The use of community-based mosquito surveillance programs to facilitate infestation, genetic, and sense of community research | Helen Wagner Coello, Florida International University
- 9:30 AM - 9:45 AM Exploring the importance of 'Partnerships' in effective P.R. Strategy | Chad Huff, Florida Keys Mosquito Control District
- 9:45 AM - 10:00 AM Don't Worry, Bee Happy: Maintaining Beehives at Citrus County Mosquito Control | Tarolyn Frisbie, Citrus County Mosquito Control District

General Session X | Moderator: Marah Clark

- 10:30 AM - 10:45 AM Impoundment Management: A Method of Source Reduction | Sherry Burroughs, Indian River Mosquito Control District
- 10:45 AM - 11:00 AM Mobile insectaries: mosquitoes "on the go" | Victoria Hyrczyk, Clarke Mosquito Control District
- 11:00 AM - 11:15 AM Controlling Saltmarsh Mosquitoes...Outside of the Salt Marsh | Sarah McInnis, Indian River Mosquito Control District
- 11:15 AM - 11:30 AM Evaluation of larval control strategies targeting *Coquillettidia perturbans* in Pasco County | Agne Prasauskas, Pasco County Mosquito Control District
- 11:30 AM - 11:45 AM Mosquito Control Impoundments: An Unlikely Seagrass Hero? | Jonathan Linder, Brevard County Mosquito Control
- 11:45 AM - 12:00 PM To fly or not to fly: an in-depth look at Florida mosquito control aerial capabilities | Dr. Steven T. Peper, Anastasia Mosquito Control District