### Monday, November 14

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

### Tuesday, November 15

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00 AM - 5:00 PM</td>
<td>Registration</td>
<td>Ocean Ballroom Foyer</td>
</tr>
<tr>
<td>8:00 AM - 10:00 AM</td>
<td>General Session I</td>
<td>Ocean Ballroom</td>
</tr>
<tr>
<td>10:00 AM - 10:30 AM</td>
<td>Networking Break with Exhibitors</td>
<td>Atlantic Ballroom</td>
</tr>
<tr>
<td>10:30 AM - 12:00 PM</td>
<td>General Session II</td>
<td>Ocean Ballroom</td>
</tr>
<tr>
<td>12:00 PM - 1:30 PM</td>
<td>Lunch with Exhibitors</td>
<td>Atlantic Ballroom</td>
</tr>
<tr>
<td>1:30 PM - 3:00 PM</td>
<td>General Session III</td>
<td>Ocean Ballroom</td>
</tr>
<tr>
<td>3:00 PM - 3:30 PM</td>
<td>Networking Break with Exhibitors</td>
<td>Atlantic Ballroom</td>
</tr>
<tr>
<td>3:30 PM - 5:00 PM</td>
<td>General Session IV</td>
<td>Ocean Ballroom</td>
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<tr>
<td>5:30 PM - 7:00 PM</td>
<td>Presidential Reception</td>
<td>Center Courtyard</td>
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### Wednesday, November 16

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30 AM - 5:00 PM</td>
<td>Registration</td>
<td>Ocean Ballroom Foyer</td>
</tr>
<tr>
<td>8:00 AM - 10:00 AM</td>
<td>General Session V</td>
<td>Ocean Ballroom</td>
</tr>
<tr>
<td>10:00 AM - 10:30 AM</td>
<td>Networking Break with Exhibitors</td>
<td>Atlantic Ballroom</td>
</tr>
<tr>
<td>10:30 AM - 12:00 PM</td>
<td>General Session VI &amp; FMCA Business Meeting</td>
<td>Ocean Ballroom</td>
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<tr>
<td>12:00 PM - 1:30 PM</td>
<td>Lunch with Exhibitors</td>
<td>Atlantic Ballroom</td>
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<tr>
<td>12:00 PM - 1:30 PM</td>
<td>Director’s Luncheon</td>
<td>Mantazas Room</td>
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<tr>
<td>12:00 PM - 3:30 PM</td>
<td>Commissioner’s Luncheon</td>
<td>East Flagler MCD</td>
</tr>
<tr>
<td>1:30 PM - 3:00 PM</td>
<td>General Session VII</td>
<td>Ocean Ballroom</td>
</tr>
<tr>
<td>3:00 PM - 3:30 PM</td>
<td>Networking Break</td>
<td>Atlantic Ballroom</td>
</tr>
<tr>
<td>3:30 PM - 5:00 PM</td>
<td>General Session VIII</td>
<td>Ocean Ballroom</td>
</tr>
<tr>
<td>5:30 PM - 6:30 PM</td>
<td>Reception &amp; Silent Auction</td>
<td>Atlantic Ballroom Foyer</td>
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<tr>
<td>6:30 PM - 8:30 PM</td>
<td>Awards Banquet</td>
<td>Atlantic Ballroom Foyer</td>
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<tr>
<td>8:30 PM - 10:00 PM</td>
<td>FMCA 100 Year Reception</td>
<td>Event Lawn</td>
</tr>
</tbody>
</table>

### Thursday, November 17

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 AM - 5:00 PM</td>
<td>Registration</td>
<td>Ocean Ballroom Foyer</td>
</tr>
<tr>
<td>8:00 AM - 10:00 AM</td>
<td>General Session IX</td>
<td>Ocean Ballroom</td>
</tr>
<tr>
<td>10:00 AM - 10:30 AM</td>
<td>Networking Break</td>
<td>Ocean Ballroom Foyer</td>
</tr>
<tr>
<td>10:00 AM - 12:00 PM</td>
<td>FMCA Board Meeting</td>
<td>Hammock Board Room</td>
</tr>
<tr>
<td>10:30 AM - 12:00 PM</td>
<td>General Session X</td>
<td>Ocean Ballroom</td>
</tr>
</tbody>
</table>
Tuesday, November 15, 2022

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 | Gordam Patterson, Professor, Florida Tech
8:55 AM - 9:10 AM  AMCA Update | Robert Cardner, 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 Minteer, 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 Aedes taeniorhynchus | 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 autocaldov 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 Aedes aegypti (Diptera: Culicidae) | Casey Crockett, ADAPCO & Red River Specialties
1:45 PM - 2:00 PM  Statewide Ae. aegypti, Ae. albopictus, and Cx. quinquefasciatus 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 Aedes aegypti 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 Culex quinquefasciatus collected from Louisiana | Neil Sanscrainte, USDA ARS Center for Medical, Agricultural & Veterinary Entomology
2:45 PM - 3:00 PM  Relating laboratory insectic 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  

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. Wilcoxen, 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 Idridge, 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 District
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