

# AGENDA



## Monday, November 15, 2021

- 10:00AM - 2:00AM **FMCA Board Meeting**  
10:00AM - 5:00PM **Exhibitor Set-up**  
10:00AM - 6:00PM **Registration**  
12:00PM - 5:00PM **FMCA Committee Meetings**  
5:30PM - 7:00PM **Opening Reception with Exhibitors**

## Tuesday, November 16, 2021

- 7:00AM - 5:00PM **Registration**  
8:00AM - 10:00AM **General Session I**  
*Moderator: James Clauson*
- 8:00AM - 8:05AM **Call to Order, Announcements** | *James Clauson, FMCA President*  
8:05AM - 8:25AM **Presidential Address** | *James Clauson and Donnie Powers*  
8:25AM - 8:40AM **AMCA Update** | *Rob Cartner, AMCA South Atlantic Regional Representative*  
8:40AM - 9:20AM **Keynote Address: If You Liked 'Alien' Then You'll Love This: Biography of a Cold-Blooded Killer** | *Randy Gaugler, Rutgers University (retired)*
- 9:20AM - 9:35AM **FDACS 2021 Update** | *Marah Clark*  
9:35AM - 9:55AM **Operational Opportunities and Challenges at the Sacramento-Yolo Mosquito and Vector Control District** | *Samer Elkashef, Sac-Yolo (CA) Mosquito Control District*
- 10:00AM - 10:30AM **Break and Meet the Exhibitors**  
10:00AM - 12:00PM **General Session II**  
*Moderator: Casey Crockett*
- 10:00AM - 10:20AM **Addressing the Evolving Training Needs of the Mosquito Control Industry** | *Casey Crockett, ADAPCO*  
10:20AM - 10:40AM **Operational Field Trials of Imperium in Mosquito Control in Louisiana and Delaware** | *Mark Latham, Manatee County Mosquito Control District (retired)*  
10:40AM - 10:55AM **Anastasia Mosquito Control District's Applied Research Collaboration - 2020-2021** | *Whitney Qualls and Rudy Xie, Anastasia Mosquito Control District*  
10:55AM - 11:10AM **Aedes albopictus Resistance: A Case Study of Adulticide Rotation and Cross-Resistance** | *Peter Jiang, Gainesville Mosquito Control District*  
11:10AM - 11:25AM **An Update on the Resistance Status of Florida Aedes Aegypti, Ae. Albopictus, and Culex Quinquefasciatus Mosquitoes** | *Eva Buckner, UF/ FMEL*  
11:25AM - 11:40AM **Evaluation of Insecticide Resistance in Mosquitoes Collected from Nantucket, MA** | *Broox Boze, VDCI*  
11:40AM - 12:00PM **Balancing Adult Mosquito Control and Nontarget Effects Across Seminole County** | *Jacob Hart, University of Central Florida*  
12:00PM - 1:30PM **Lunch for All with Exhibitors**  
**Director's Lunch in Conference Room**
- 12:00PM - 1:30PM **Lunch with Exhibitions**  
**Director's Lunch in Conference Room**
- 1:30PM - 3:00 PM **General Session III**  
*Moderator Katie Williams*
- 1:30PM - 1:45PM **Contradicting 355 Years of Mosquito Larval Physiology and Respiratory Dogma** | *Herb Nyberg, New Mountain Innovations*

## Tuesday, November 16, 2021 Continued

1:45PM - 2:00PM	<b>A New Lab! Open for Business!</b>   <i>Mike Riles, Beach Mosquito Control District</i>
2:00PM - 2:20PM	<b>Heartaches and Challenges of Running a Mosquito Control District - Perspectives from California</b>   <i>Mark Breidenbaugh, Northwest Mosquito &amp; Vector Control District (CA)</i>
2:20PM - 2:40PM	<b>Heartaches and Challenges of Running a Mosquito Control District - Perspectives from Florida</b>   <i>Adriane Rogers, Pasco Mosquito Control District</i>
2:40PM - 3:00PM	<b>Social Media 202</b>   <i>Michael Mut, Miami-Dade Mosquito Control District</i>
3:00PM - 3:30PM	Break
3:30PM - 3:45PM	<b>Transforming the Way We Reach Our Citizens</b>   <i>Jillian Meek, Pasco County Mosquito Control District</i>
3:45PM - 4:00PM	<b>Sentinel Successes Worth Sharing</b>   <i>Max Dersch, Manatee County Mosquito Control District</i>
4:00PM - 4:15PM	<b>Biogents BG Counter 2 Trap: A vital component of our surveillance program with field data examples</b>   <i>Tarolyn Plumley, Citrus County Mosquito Control District</i>
4:15PM - 4:30PM	<b>Using the BG-Counter to replace Human Landing Rate Counts in the Florida Keys</b>   <i>Catherine A. Pruszynski, Florida Keys Mosquito Control District</i>
4:30PM - 5:00PM	<b>Unmanned Aircraft Systems (UAS) Around the Country, What Are They Good For and How Are They Supporting Vector Control Operations?</b>   <i>Bill Reynolds, Leading Edge Aerial Technologies</i>
5:30PM - 7:00PM	<b>Presidential Reception</b>

## Wednesday, November 17, 2021

8:00AM - 10:00AM	<b>General Session IV</b> <i>Moderator: Larry Hribar</i>
8:00AM - 8:10AM	<b>Rediscovery of <i>Aedes scapularis</i> (Diptera: Culicidae) in the Florida Keys</b>   <i>Larry Hribar</i>
8:10AM - 8:25AM	<b>A Review of the Literature on the Impacts of Pesticides on Fireflies"</b>   <i>Kristen Heely, LSU</i>
8:25AM - 8:40AM	<b>Field Evaluation of the In2Care trap at Low Densities for <i>Aedes aegypti</i> Control</b>   <i>Estelle Martin, University of Florida</i>
8:40AM - 8:55AM	<b>FKMCD/Oxitec Mosquito Project: Winning the War against Misinformation</b>   <i>Chad Huff, Keys Mosquito Control District</i>
8:55AM - 9:10AM	<b>FKMCD-Oxitec Mosquito Project in the Florida Keys</b>   <i>Rajeev Vaidyanathan, Oxitec</i>
9:10AM - 9:25AM	<b>Resistance to Methoprene in the Black Saltmarsh Mosquito, <i>Aedes taeniorhynchus</i>, in Pasco County, Florida</b>   <i>Agne Prasauskas, Pasco Mosquito Control District</i>
9:25AM - 9:40AM	<b>Development and Validation of a Colorimetric Reverse Transcriptase Loop-Mediated Isothermal Amplification Assay for Detection of Eastern Equine Encephalitis Virus in Mosquitoes</b>   <i>Kristi M. Miley, USF</i>
9:40AM - 10:00AM	<b>Field Evaluation of WALS truck-mounted A1 Super Duty Mist Sprayer® with VectoBac® WDG against <i>Aedes aegypti</i> (Diptera:Culicidae) populations in Manatee County, Florida</b>   <i>Samantha Ramirez, Manatee County Mosquito Control District</i>

# AGENDA

10:00AM - 10:30AM **Break**

## Wednesday, November 17, 2021 Continued

10:30AM - 12:00PM **General Session V**

*Moderator Scott Schermerhorn*

- 10:30AM - 10:45AM **Field Trial Efficacy of FourStar® Bti CRG on Aedes taeniorhynchus in the Florida Keys** | *Heidi Murray, Keys Mosquito Control District*
- 10:45AM - 11:00AM **NACCHO and the Vector Control Workgroup** | *Sandra Fisher-Grainger, Hernando County Mosquito Control District*
- 11:00AM - 11:15AM **Spatial Ecological Modeling of Arboviral Risk in Florida** | *Sean Beeman, Uniformed Services University of the Health Sciences*
- 11:15AM - 11:30AM **Host Selection Patterns of Culex quinquefasciatus and Culex nigripalpus, Two West Nile Virus Vectors in Florida** | *Chip Hancock, Sarasota County Mosquito Management Services*
- 11:30AM - 12:00PM **FMCA Business Meeting: Bylaws, Financial Statement & Election Results** | *President James Clauson*

12:00PM - 1:30PM **Lunch On Own**

1:30 PM - 3:00PM **General Session VI**

*Moderator: Miranda Tressler*

- 1:30PM - 1:45PM **Senecio Automated Identification and Pooling System** | *Hanan Lepek & Ralph Breslauer, Senecio Robotics*
- 1:45PM - 2:00PM **Successes and Obstacles of the 2020 DEN-V Outbreak in Key Largo, FL** | *Michael Boehmler, Florida Keys Mosquito Control District*
- 2:00PM - 2:15PM **In-House Capabilities for Arbovirus Surveillance at AMCD** | *Steven Peper, Anastasia Mosquito Control District*
- 2:15PM - 2:30PM **Collaboration is the Key to Streamlining Technology** | *Mike Reynolds, Leading Edge Associates*
- 2:30PM - 2:45PM **Standing Up for Mosquito Control in Difficult Times of Public Perception and Justifying Your Job** | *Miranda Tressler, Volusia County Mosquito Control District*
- 2:45PM - 3:00PM **Building a Disease Vector Education Center and SIT Production Laboratory at AMCD** | *Richard Weaver, Anastasia Mosquito Control District*

3:00PM - 3:30PM **Break**

- 3:30PM - 3:45PM **Quantitative RT-qPCR For Detection of Specific Pathogens in Individual and Pooled Collections of Mosquitoes** | *Ernest Colaizzi, Research Associates Laboratory*
- 3:45PM - 4:00PM **Comparison of CDC Light Traps and Gravid Traps for Arbovirus Surveillance in Conjunction with Sentinel Chicken Surveillance** | *Heather Ward, Anastasia Mosquito Control District*
- 4:00PM - 4:15PM **Scapularis and tortilis and declarator, oh my! New species records for Collier County** | *Rebecca Heinig, Collier Mosquito Control District*
- 4:15PM - 4:30PM **AMCD's Surveillance Trapping Report, January 2020 - September 2021** | *Steven Smoleroff, Anastasia Mosquito Control District*
- 4:30PM - 4:45PM **The Evolution of Hillsborough County's Mosquito Fish Program - How We Adapted to Continue Our Public Outreach During COVID-19** | *Alexa Patrizio, Hillsborough Mosquito Control District*
- 4:45PM - 5:00PM **Senecio Novel Drone Release for Sterile Mosquitoes** | *Hanan Lepek & Ralph Breslauer, Senecio Robotics*

5:30PM - 7:00PM **Social and Silent Auction**

7:00PM - 9:00PM **Awards Banquet**

*Installation of New Officers and Board Members*  
*Auction Item retrieval will open after the banquet*

Florida Mosquito  
Control Association



# Thursday, November 18, 2021

- 8:00AM - 10:00AM **General Session VII**  
*Moderator: Mike Riles*
- 8:00AM - 8:15AM **“Lag of the Art” – A product development review (1962 to present) of US adulticide space sprays** | *Jason Clarke and Banugopan Kesavaraju, Valent BioSciences*
- 8:15AM - 8:30AM **Five Novel SNPs in Voltage-gated Sodium Channel Gene Identified in *Aedes aegypti* Mosquitoes from Florida** | *Kyle J. Kosinski, UF/FMEL*
- 8:30AM- 8:45AM **How We Respond to Service Requests at Anastasia Mosquito Control District** | *Dena Autry, Anastasia Mosquito Control District*
- 8:45AM - 9:00AM **Field observations of invasive species *Aedes japonicus* and Larval Contemporaries in Escambia County, Florida** | *Mike Riles, Beach Mosquito Control District*
- 9:00AM - 9:15AM **Managing Mosquitoes in an Urban Setting – Hillsborough County’s Urban Larviciding Program** | *Mary S. Geesey, Hillsborough Mosquito Control District*
- 9:15AM - 9:30AM **Get Dynamic Real-Time Operational Awareness with ArcGIS Dashboards and FieldSeeker** | *Chad Minter and Linda Glover, Frontier Precision*
- 9:30AM - 9:45AM **Effects of Pesticide Exposure to *Aedes aegypti* and Implications on Vector Competence** | *Robert L. Aldridge, University of Florida*
- 9:45AM - 10:00AM **Growing social media from the ground up: How We Saw an Increase in Followers in Six Months** | *Tarolyn Plumley, Citrus County Mosquito Control District*
- 10:00AM - 10:30AM **Break**
- 10:30AM -10:45AM **Evaluation of Water-Based Thermal Fogger for Larvicide-Adulticide Mixture Application** | *Muhammad Farooq, Anastasia Mosquito Control District*
- 10:45AM - 11:00AM **Evaluation of a Nanoencapsulated Formulation of the Essential Oil Insecticide: BigShot Maxim** | *Kai Blore, Anastasia Mosquito Control District*
- 11:00AM - 11:15AM **The EntoExchange: A Mosquito Specimen Identification and Exchange Network with Data Management System** | *Dan Killingsworth, Environmental Security Pest Control*
- 11:15AM - 11:30AM **Sirenix Lethal Ovitrap** | *Herb Nyberg, New Mountain Innovations*
- 11:30AM - 11:30AM **One Hundred Years of Observation** | *Cindy Mulla, Beach Mosquito Control District*