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

Wednesday, November 17, 2021

8:00AM - 10:00AM  General Session IV
  Moderator: Larry Hribar

8:00AM - 8:10AM  Rediscovery of Aedes scapularis (Diptera: Culicidae) in the Florida Keys | Larry Hribar
8:10AM - 8:25AM  A Review of the Literature on the Impacts of Pesticides on Fireflies” | Kristen Heely, LSU
8:25AM - 8:40AM  Field Evaluation of the In2Care trap at Low Densities for Aedes aegypti Control | Estelle Martin, University of Florida
8:40AM - 8:55AM  FKMCD/Oxitec Mosquito Project: Winning the War against Misinformation | Chad Huff, Keys Mosquito Control District
8:55AM - 9:10AM  FKMCD-Oxitec Mosquito Project in the Florida Keys | Rajeev Vaidyanathan, Oxitec
9:10AM - 9:25AM  Resistance to Methoprene in the Black Saltmarsh Mosquito, Aedes taeniorhynchus, in Pasco County, Florida | Agne Prasauskas, Pasco Mosquito Control District
9:40AM - 10:00AM  Field Evaluation of WALS truck-mounted A1 Super Duty Mist Sprayer® with VectoBac® WDG against Aedes aegypti (Diptera:Culicidae) populations in Manatee County, Florida | Samantha Ramirez, Manatee County Mosquito Control District
### 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_

### Lunch On Own

12:00PM - 1:30PM

### 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_

### Break

3:00PM - 3:30PM

**Quantitative RT-qPCR For Detection of Specific Pathogens in Individual and Pooled Collections of Mosquitoes**  
_Ernest Colaizzi, Research Associates Laboratory_

3:30PM - 3:45PM  
**Comparison of CDC Light Traps and Gravid Traps for Arbovirus Surveillance in Conjunction with Sentinel Chicken Surveillance**  
_Heather Ward, Anastasia Mosquito Control District_

3:45PM - 4:00PM  
**Scapularis and tortilis and declarator, oh my! New species records for Collier County**  
_Rebecca Heinig, Collier Mosquito Control District_

4:00PM - 4:15PM  
**AMCD’s Surveillance Trapping Report, January 2020 - September 2021**  
_Steven Smoleroff, Anastasia Mosquito Control District_

4:15PM - 4:30PM  
**The Evolution of Hillsborough County’s Mosquito Fish Program – How We Adapted to Continue Our Public Outreach During COVID-19**  
_Aleza Patrizio, Hillsborough Mosquito Control District_

4:30PM - 4:45PM  
**Senecio Novel Drone Release for Sterile Mosquitoes**  
_Hanan Lepek & Ralph Breslauer, Senecio Robotics_

### Break

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_
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 Minteer 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