

## Monday, February 12, 2018

8:30 a.m. **NCMVCA Board Meeting**  
(NCMVCA Board Members Only)

10:05 a.m. **MAMCA Board Meeting**  
(MAMCA Board Members Only)

12:00 p.m.—1:00 p.m. **Onsite Registration**

### First session (Moderator - Dr. Brian Byrd)

1:00 p.m. **Welcome & Opening Remarks**  
-Tim Dubois (MAMCA President)  
-Dr. Michael Reiskind (NCMVCA President)

1:10 p.m. **Updates from the Northeast Regional Center for Excellence in Vector Borne Diseases**  
-Dr. Laura Harrington

1:30 p.m. **Reproductive biology and behavior of Aedes: Potential targets for next generation control strategies.**  
-Dr. Laura Harrington

1:50 p.m. **Global climate change and what history tells us about the risk of new pathogens being introduced into the United States**  
-Dr. Mike Turell

2:30 p.m. **Ecology of urban mosquitoes along socio-economic gradients: Interesting insights from Baltimore, Maryland**  
-Dr. Paul Leisnham

2:45 p.m.—3:15 p.m. **Break** (Visit Sustaining Members)

### Second session (Moderator - Dr. Michael Reiskind)

3:15 p.m. **Oh, the places you'll go and the mosquitoes you'll know**  
-Dr. Brian Byrd

3:30 p.m. **NC mosquito control programs**  
-Michael Doyle

3:45 p.m. **Tracking the spread of Ae. albopictus in a county**  
-Tom Smith

4:00 p.m. **Sustaining Member Presentations: Adapco, Inc., AllPro Vector Group, Atlantic Paste and Glue-Catchmaster**

4:15 p.m. **Public Education in Maryland**  
-Jeannine Dorothy

4:30 p.m. **The ecology of dog heartworm disease**  
-Meredith Spence Beaulieu \*first place winner

## Monday, February 12, 2018 (cont.)

4:45 p.m. **Coordinating a centralized arbovirus surveillance program in South Carolina**  
-Robert Cartner

5:00 p.m. **Sustaining Member Presentations: AMVAC Environmental Products, Bayer Environmental Science, Central Life Sciences, Clarke Mosquito Control Products**  
**Adjourn**

5:20 p.m.

6:30 p.m.—7:30 p.m. **"Biting Times Social"**  
(All Attendees)

## Tuesday February 13, 2018

7:00 a.m. **Registration, Light Breakfast (all attendees)**

### Third session (Moderator - James Joachimowski)

8:00 a.m. **An update on the status of the invasive mosquito, Aedes j. japonicus, in North America**  
-Mike Hutchinson

8:15 a.m. **Drones in mosquito control**  
-Matt Du Pont

8:30 a.m. **Investigating the diversity of arboviruses and mosquitoes at the Nashville Zoo at Grassmere**  
-Thomas Moore

8:45 a.m. **Understanding Aedes presence, abundance, and phenology with geography and climate: Results from the 2016 North Carolina mosquito survey**  
-Emily Reed

9:00 a.m. **Update on North Carolina bee registry**  
-Dwight Seal

9:15 a.m. **Sustaining Member Presentations: FMC Corporation, Frontier Precision, Inc., Leading Edge Associates, Inc., Mosquito Authority**

9:35 a.m. **NC Tick Surveillance**  
-Dr. Alexis Barbarin

9:50 a.m. **Attempts to understand the range expansion of Amblyomma maculatum**  
-Dr. Rebecca Trout-Fryxell

10:05 a.m.—10:35 a.m. **Break** (Visit Sustaining Members)

### Fourth session (Moderator - Eric Dotseth)

10:35 a.m. **Tick-borne diseases in Virginia**  
-Dr. David Gaines

10:50 a.m. **Impact of the insect growth regulator pyriproxyfen on life table characteristics of Aedes albopictus**  
-Megan Rhyne

## Tuesday, February 13, 2018 (cont.)

11:05 a.m. **Culex coronator distribution**  
-Marie Hemmen

11:20 a.m. **Sustaining Member Presentations: Slingshot, Summit Chemical Company**

11:30 a.m.—12:10 p.m. **Break** (Luncheon Room Setup)  
(Visit Sustaining Members)

12:10 p.m.—1:40 p.m. **Luncheon and Awards** (All attendees)  
1:40 p.m.—2:15 p.m. **Break** (Visit Sustaining Members)

### Fifth session (Moderator - Kyle Brinson)

2:15 p.m. **AMCA Update**  
-Joe Conlon

2:30 p.m. **Could viral co-infection of mosquitoes impact vector control?**  
-Avian White

2:45 p.m. **Mosquito Authority: An update on current and future research and development goals and needs**  
-Dr. Craig Stoops

3:00 p.m. **Effectiveness of pyrethroid barrier treatment insecticides on Aedes albopictus**  
-Ben McMillan \*runner up winner

3:15 p.m. **Impact of insecticide exposure on vector competence for Zika virus**  
-Heidi Knecht

3:30 p.m. **The efficacy of homemade mosquito repellents on Aedes albopictus**  
-James Carver

3:45 p.m. **Repellent response in La Crosse-infected mosquitoes**  
-Kevin Chan

4:00 p.m.—4:20 pm **Break** (Visit Sustaining Members)

### Sixth session (Moderator - Dr. Abelardo Moncayo)

4:20 p.m. **Sustaining Member Presentations: Target Specialty Products, Univar USA, Inc., Valent BioSciences Corp., Vector Disease Control International**

4:35 p.m. **Serologic response in Alpacas during a public health response to a rabid Alpaca in SC**  
-Travis Shealy

5:05 p.m. **Adjourn** (Dinner On Your Own)

## Wednesday, February 14, 2018

7:00 a.m.—8:00 a.m. **Breakfast Buffet** (All Attendees)

### Seventh session (Moderator - Joe Andrews)

8:00 a.m. **Mosquito University and mosquito grants in Tennessee**  
-Dr. Abelardo Moncayo

## Wednesday, February 14, 2018 (cont.)

8:15 a.m. **Georgia's response to arboviruses: The vector surveillance program and increased statewide mosquito surveillance**  
-Dr. Thuy-Vi Nguyen

8:30 a.m. **Spread of Lyme disease into NC from VA: Tick survey along the VA/NC border**  
-Jimmie Teague

8:45 a.m. **Attraction of gravid sand flies to conspecific materials**  
-Danielle Kowacich \*runner up winner

9:00 a.m. **Circadian rhythm of oviposition behavior of sand flies**  
-Lindsey Faw and Nima Hajhashemi

9:15 a.m. **Rat control program in Tennessee**  
-Ture Carlson

9:30 a.m. **Detection of West Nile virus in Culex mosquitoes in Wayne County, North Carolina**  
-Ivan Vargas

9:45 a.m.—10:15 a.m. **Break** (Hotel Check Out)

### Eighth session (Moderator - Tom Smith)

10:15 a.m. **MAMCA Member State Presentations** (5 minutes each)

**Delaware** - James Joachimowski

**Georgia** - Dr. Thuy-Vi Nguyen

**Maryland** - Kyle Brinson

**North Carolina** - Joe Andrews

**Pennsylvania** - Andy Kyle

**South Carolina** - Travis Shealy

**Tennessee** - Ture Carlson

**Virginia** - Ann Herring

**West Virginia** - Eric Dotseth

11:00 a.m. **NCMVCA Business Meeting, Elections**  
**MAMCA Business Meeting, Elections**  
**Door Prizes**  
(All Attendees)

12:15 p.m. **Adjourn**

**\*Student Scholarship Award**

**Thanks to our judges**

**Dr. Paul Leisnham and Dr. Rebecca Trout-Fryxell.**

**Cover art by Charlie Sither.**

## Presenters

**Joe Andrews**, AllPro Vector Group, Cameron, NC,  
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**Dr. Alexis Barbarin**, NC Dept. of Health and Human Services,  
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**Meredith Spence Beaulieu**, NC State University, Raleigh,  
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**Kyle Brinson**, Maryland Dept. of Agriculture, Salisbury, MD,  
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**Dr. Brian Byrd**, Western Carolina University, Cullowhee, NC,  
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**Ture Carlson**, Chatham County Mosquito Control, Savannah,  
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**Robert Cartner**, SC DHEC, Columbia, SC, cartner1@dhec.sc.gov

**James Carver**, VA Tech, Blacksburg, VA, jcarver4@vt.edu

**Kevin Chan**, VA Tech, Blacksburg, VA, kchan90@vt.edu

**Joe Conlon**, American Mosquito Control Association,  
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**Jeannine Dorothy**, MD Dept. of Agriculture, Riverdale, MD,  
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**Eric Dotseth**, WV Dept. of Health & Human Resources, South  
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**Tim DuBois**, City of Hampton, Hampton, VA,  
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**Lindsey Faw**, UNCG, Greensboro, NC, lrfaw@uncg.edu

**Dr. David Gaines**, Virginia Dept. of Health, Richmond, VA,  
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**Nima Hajhashemi**, UNCG, Greensboro, NC, n\_hajhas@uncg.edu

**Dr. Laura Harrington**, Cornell University, Ithaca, NY,  
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**Marie Hemmen**, New Hanover Environmental Health,  
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**Ann Herring**, Suffolk Mosquito Control, Suffolk, VA,  
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**Mike Hutchinson**, PA Dept. of Environmental Protection, York,  
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**James Joachimowski**, DE Division of Fish and Wildlife, Milford,  
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**Dr. Paul Leisnham**, University of Maryland, College Park,  
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**Ben McMillan**, VA Tech, Blacksburg, VA, benm93@vt.edu

**Dr. Abelardo Moncayo**, TN Dept. of Health, Nashville, TN,  
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**Thomas Moore**, TN Dept. of Health, Nashville, TN,  
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**Dr. Thuy-Vi Nguyen**, GA Dept. of Health, Atlanta, GA,  
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**Emily Reed**, NC State University, Raleigh, NC,  
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**Dwight Seal**, NC DA&CS Pest Control and Pesticides  
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**Jimmie Teague**, UNC Greensboro, Greensboro, NC,  
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**Dr. Rebecca Trout-Fryxell**, University of TN, Knoxville, TN,  
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**Dr. Mike Turell**, VectorID LLC, Frederick, MD,  
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**Ivan Vargas**, University of Mt. Olive, Mt. Olive, NC,  
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**Avian White**, East Carolina University, Greenville, NC,  
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### *Continuing Education Credits*

Check with MAMCA state representatives for CEUs. In NC, the program is approved for 11.25 hrs for REHS CEUs (#18000) and 8 hrs for NC DA&CS CEUs in pesticide categories B/N/D/X (2/12: 2.5 hrs, 517006; 2/13: 4 hrs, 517007; 2/14: 1.5 hrs, 517008). Please complete the CEU rosters daily (at registration desk) to receive credit. Contact Dr. Stephanie Richards (richardss@ecu.edu) for more information.

*Thanks for your participation!*

## Sustaining Members

Adapco, Inc.

AllPro Vector Group

Atlantic Paste and Glue- Catchmaster

AMVAC Environmental Products

Bayer Environmental Science

Central Life Sciences

Clarke Mosquito Control Products, Inc.

Duke Energy Carolinas

FMC Corporation

Frontier Precision, Inc.

Leading Edge Associates, Inc.

Mosquito Authority

Slingshot

Summit Chemical Company

Target Specialty Products

Univar USA, Inc.

Valent Biosciences Corp.

Vector Disease Control International

### MAMCA Officers

Tim DuBois - President

Dr. Stephanie Richards - Vice President

Tom Smith - Vice President-Elect

Andy Kyle - Secretary-Treasurer

Dr. Abelardo Moncayo - Past President

### MAMCA Board of Directors

Joe Andrews (North Carolina)

Christian Boyer (Pennsylvania)

Kyle Brinson (Maryland)

Amy Trimm (Tennessee)

Jason Conrad (Industry Representative)

Eric Dotseth (West Virginia)

Sue Ferguson (Historian)

Ann Herring (Virginia)

James Joachimowski (Delaware)

Dr. Rosmarie Kelly (Georgia)

Travis Shealy (South Carolina)

### NCMVCA Executive Committee

Dr. Michael Reiskind - President

Dr. Stephanie Richards - Vice President

Mark Phelps - Secretary-Treasurer

Jim Gardner - Past President

### NCMVCA Board of Directors

Joe Andrews

Michael Doyle

Joe Strickhouser

Parker Whitt

Abram Young

# 43rd Annual Meeting Mid-Atlantic Mosquito Control Association



2018

# 52nd Annual Meeting North Carolina Mosquito and Vector Control Association

February 12—14, 2018

Courtyard Marriott

Carolina Beach, North Carolina