

## TUESDAY, December 10, 2019

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

11:00 a.m.—1:00 p.m. Onsite Registration

### First session

**(Moderator: Michael Doyle)**

1:00 p.m. Welcome & Opening Remarks  
-Michael Doyle  
(NCMVCA President)

1:10 p.m. Preparing for the next  
generation of North American  
mosquito identification and  
bionomical publications  
-Dr. William Sames

1:45 p.m. AMCA Update  
-Dr. Brian Byrd

2:00 p.m. Landscape genomics of *Aedes  
albopictus*  
-Emily Reed

2:20 p.m. Flight of fancy: Automated  
species counting and  
identification  
-Dr. Michael Reiskind

2:40 p.m. Context dependent accuracy of  
the BG counter  
-Corey Day

3:00 p.m.—3:30 p.m. Break  
(Visit Sustaining Members)

### Second session

**(Moderator: Dr. Michael Reiskind)**

3:30 p.m. Efficacy of spillover of yard scale  
control of *Aedes albopictus*  
using barrier sprays and larval  
habitat management in Raleigh,  
NC  
-Brandon Hollingsworth

## TUESDAY, December 10, 2019

(continued)

3:50 p.m. Can targeting egg-laying females  
extend the efficacy of barrier  
sprays?  
-Anastasia Figurskey

4:10 p.m. Comparative skip oviposition  
behavior in container *Aedes*  
-Drew Reinhold-Wasson

4:30 p.m. Ticks in NC  
-Dr. Marcia Herman-Giddens

4:50 p.m. Sustaining member  
presentations  
Adjourn

5:05 p.m. 6:00 p.m. — 7:00 p.m. “Biting Times Social”  
(Beverages & Appetizers: All Attendees)

## WEDNESDAY, December 11, 2019

8:00 a.m. Registration, Light Breakfast  
(all attendees)

### Third session

**(Moderator: Dr. Brian Byrd)**

9:00 a.m. Use of nanoparticles in mosquito  
control  
-Avian White

9:20 a.m. Permethrin-treated clothing  
used to repel mosquitoes  
-Adam Vang

9:40 a.m. Aquatic midge flies (fuzzy bills)  
-Dr. Mike Waldvogel

10:00 a.m. Salinity tolerance in freshwater  
and salt marsh mosquitoes  
-Heidi Knecht

10:20 a.m. Sustaining member  
presentations

## WEDNESDAY, December 11, 2019

(continued)

10:40 a.m. What do we do about NC’s  
most persistent arbovirus?  
-Dr. Brian Byrd

11:00 a.m. AMCA endangered species  
update  
-Mike Riles

11:20 a.m. — 12:05 p.m. Break  
(Luncheon Setup in Conference Room)

12:05 p.m.—1:30 p.m. Luncheon and Awards

### Fourth session

**(Moderator: Meredith Spence-Beaulieu)**

1:30 p.m. State’s role in NC vector control  
-Michael Doyle

1:50 p.m. Historical NC mosquito  
control capacity  
-Jeff Brown

2:10 p.m. Mosquito management  
task force in NC  
-Rob Blake

2:30 p.m. Breakout sessions with small  
group discussion about local  
needs  
-Avian White and Meredith  
Spence-Beaulieu (group leaders)

3:00 p.m.—3:30 p.m. Break  
(Visit Sustaining Members)

3:30 p.m. Panel discussion addressing  
legislative questions  
-Panel members:  
-Brian Byrd, Neill Cagle, Brandon  
Grigsby, Jacob Kendall, and Jeff  
Brown

4:30 p.m. Sustaining member  
presentations

## WEDNESDAY, December 11, 2019

(continued)

4:50 p.m. Membership in the Mid-Atlantic  
Mosquito Control Association  
-Joe Andrews

5:00 p.m. Adjourn (Dinner on your own)

## THURSDAY, December 12, 2019

8:00 a.m.—9:00 a.m. Breakfast buffet  
(All Attendees)

### Fifth session

**(Moderator: Dr. Stephanie Richards)**

9:00 a.m. Experiences with the NACCHO  
mentorship program  
-Ryan Harrison

9:20 a.m. Managing citizen requests  
during a disaster response  
-Abram Young

9:40 a.m. Adulticiding: Making each spray  
run count  
-Jeff Brown

10:00 a.m.—10:20 a.m. Break  
(Hotel check out)

### Seventh session

**(Moderator: Eugene McRoy)**

10:20 a.m. Reports from local mosquito  
control programs  
(5 minutes each)

10:55 a.m. NCMVCA Business Meeting,  
Officer Elections, Door Prizes  
(All Attendees)

12:00 p.m. Adjourn

**\*Student Scholarship Award**

**Thanks to our judges  
TBD and TBD.**

## Presenters and Moderators

**Joe Andrews**, All Pro Vector Group, Cameron, NC, joea@allprovector.com  
**Meredith Spence Beaulieu**, NC State University, Raleigh, NC, mrsperc2@ncsu.edu  
**Robert Blake**, Transylvania County Public Health, Brevard, NC, robert.blake@transylvaniacounty.org  
**Jeff Brown**, Brunswick County Mosquito Control, Bolivia, NC, jeff.brown@brunswickcountync.gov  
**Dr. Brian Byrd**, Western Carolina University, Cullowhee, NC, bdbyrd@wcu.edu  
**Corey Day**, Western Carolina University, Cullowhee, NC, caday2@catamount.wcu.edu  
**Michael Doyle**, NC Dept. of Health and Human Services, Raleigh, NC, michael.doyle@dhhs.nc.gov  
**Anastasia Figurskey**, NC State University, Raleigh, NC, acfigur@ncsu.edu  
**Ryan Harrison**, Forsyth County Department of Public Health, Winston-Salem, NC, harrisrl@forsyth.cc  
**Dr. Marcia Herman-Giddens**, Tick-borne Infections Council of NC, Pittsboro, NC, meherman.go@gmail.com  
**Brandon Hollingsworth**, NC State University, Raleigh, NC, bhollin@ncsu.edu  
**Heidi Knecht**, East Carolina University, Greenville, NC, knechth16@students.ecu.edu  
**Emily Reed**, NC State University, Raleigh, NC, emreed@ncsu.edu  
**Drew Reinhold-Wasson**, NC State University, Raleigh, NC, ddreinbo@ncsu.edu  
**Dr. Michael Reiskind**, NC State University, Raleigh, NC, mhreiski@ncsu.edu  
**Dr. Stephanie Richards**, East Carolina University, Greenville, NC, richardss@ecu.edu  
**Mike Riles**, Beach Mosquito Control District, Panama City Beach, FL, michael.riles@comcast.net

**Dr. William Sames**, Medical Entomologist (US Army retired)/Independent Consultant/Researcher, mosquitodoctor@yahoo.com  
**Adam Vang**, East Carolina University, Greenville, NC, vanga13@students.ecu.edu  
**Dr. Mike Waldvogel**, NC State University, Raleigh, NC, mwaldvog@ncsu.edu  
**Avian White**, East Carolina University, Greenville, NC, whiteav15@ecu.edu  
**Abram Young**, Brunswick County Mosquito Control, Bolivia, NC, abram.young@brunswickcountync.gov

## Sustaining Members 2018-2019

Adapco, Inc.  
All Pro 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

## Continuing Education Credits

The program is approved for X hrs for REHS CEUs (#) and X hrs for NC DA&CS CEUs in pesticide categories B/N/D/X (12/10: X hrs, #; 12/11: X hrs, #; 12/12: X hrs, #). Please complete the CEU rosters daily (at registration desk) to receive credit. Contact Dr. Stephanie Richards (richardss@ecu.edu) for more information.

## NCMVCA Executive Committee

Michael Doyle - President  
Eugene McRoy - Vice President  
Kaley Myers - Secretary  
Dr. Stephanie Richards—Treasurer  
Dr. Stephanie Richards - Past President

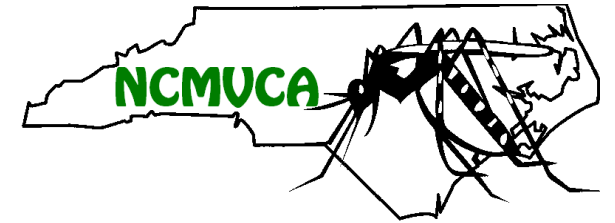
## NCMVCA Board of Directors

Dr. Brian Byrd  
Jeff Brown  
Meredith Spence-Beaulieu  
Matt DuPont  
Joe Strickhouser

## Past NCMVCA Presidents

1965 Charlie McCotter	1994 Dennis Salmen
1966 Dewey Boseman	1995 Ken Sholar
1967 Heath Howie	1996 Peter Connelly
1968 David A. Hill	1997 Jim Earp
1969 John M. Hirst	1998 Parker Whitt
1970 George Swearingen	1999 Joe Strickhouser
1971 James Fulp	2000 Bruce Harrison
1972 W.H. Cranford	2001 Jeff Brown
1973 Alton D. Harris	2002 Ken Manuel
1974 Donald F. Ashton	2003 Ray Silverthorne
1975 John Waters	2004 Joe Andrews
1976 Richard C. Axtell	2005 Joe Garcia
1977 Hamilton W. Stevens	2006 Walker Rayburn
1978 Earl C. Johnson	2007 Eugene McRoy
1979 M. V. Rice	2008 David Jenkins
1980 Maurice P. Edmondson	2009 Robert Collins
1981 David Underhill	2010 Joe Rowell
1982 Donald R. Willard	2011 Tyler McKeithan
1983 Robert T. Barden	2012 James Bjorneboe
1984 Charles S. Apperson	2013 Vencent Dodge
1985 Thurman Tyson	2014 Brian Byrd
1986 Larry J. "Jim" Bryan	2015 Robert Collins
1987 Michael U. Rhodes	2016 Jim Gardner
1988 Bobby T. Waters	2017 Michael Reiskind
1989 Marc Slaff	2018 Stephanie Richards
1990 John Myers	
1991 Delbert Bryant	
1992 Phillip Rivenbark	
1993 Alice Anderson	

# 53rd Annual Meeting North Carolina Mosquito and Vector Control Association



[www.ncmvca.org](http://www.ncmvca.org)

Courtyard Marriott  
Carolina Beach  
North Carolina

December 10—12, 2019