

2012 NCMVCA Conference

CITY HOTEL & BISTRO

The 2012 Annual Meeting of the North Carolina Mosquito and Vector Control Association will now be held at the City Hotel and Bistro in Greenville (www.cityhotelandbistro.com) starting Wednesday, October, 24th through Friday, October, 26th. The hotel is located at 203 SW Greenville Blvd, Greenville, NC. Discounted room rates are available for conference attendees! A preconference speakers list may be found on pages 4 and 5. Guest speakers include representatives from local (NC) mosquito districts, North Carolina State University, East Carolina University, Western Carolina University, UNC-Greensboro, NCDENR, NC Division of Public Health, and the United States Navy. Pre-register by September 15th for a reduced fee!

Assessing Risk for Vector Borne Disease: *Dr. Stephanie Richards, East Carolina University*

Dr. Stephanie Richards is an Assistant Professor of Environmental Health in the College of Health and Human Performance, Department of Health Education and Promotion at East Carolina University (ECU). She joined ECU in Fall 2011 and is looking forward to developing her research program dealing with vector borne disease ecology. Prior to this position, Dr. Richards worked at the University of Florida, Florida Medical Entomology Laboratory as a Research Assistant Scientist.

Mosquito bites are annoying, but generally do not cause serious harm. However, mosquitoes are the primary method of arbovirus transmission between animals. When mosquitoes are involved in epidemiologic cycles, they threaten public health.

It is well known that some mosquitoes are better vectors than others. Dr. Richards' research seeks to target and control potential vectors by understanding vector-virus interactions. Her research has shown that the vector-virus relationship is made more complex by interactions between biological and environmental factors. These studies are essential to begin to understand the importance of vectors in nature. Characterization of the dynamic relationship between mosquito infection and subsequent arbovirus transmission is underway to determine the epidemiological significance of different populations in nature.

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The Biting Times

Newsletter for the
North Carolina
Mosquito & Vector
Control Association

September, 2012

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Assessing Risk *(continued)*

Dr. Richards' current and future research focuses on aspects of vector competence for locally and globally important pathogens such as chikungunya, dengue, La Crosse, St. Louis encephalitis, and West Nile viruses. At ECU, Dr. Richards plans to continue her work on vector-virus interactions, focusing primarily on La Crosse and dengue viruses. Data gained from small scale laboratory and/or field studies will be used to understand complexities of large scale systems of vector borne disease. A multifaceted approach is essential to study vector-virus relationships in disease cycles and a primary practical application of this research is to protect health. The understudied mosquito aspect of this relationship is the focus of this research and the results of these studies will help mitigate epidemics of endemic, emerging, and re-emerging arboviruses. Dr. Richards' research interests also involve using genetic risk markers to better understand the large scale epidemiology of vector-borne disease in different mosquito populations. An essential aspect of this research is its practical application and field studies must be conducted in order to evaluate how different environmental and biological factors affect disease cycles. Hence, her research will use tools such as geographic information systems for spatial analysis of markers in diverse populations, thereby strengthening epidemiologic studies by identifying hot spots of risk for targeted control.

Dr. Richards lives in Greenville with her husband and 15 month old twins. She is happy to be back in North Carolina and looks forward to an exciting and productive career involving research and teaching.

Contact information:

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Call for Nominations!

Nominations are encouraged for candidates for the NCMVCA officers positions in this coming year. Positions that are available for nominations are President, and Vice President.. Although these positions typically move upward sequentially, nominations for these positions are always appreciated from the members of the association, and voting will occur at the annual business meeting. Another call for nominations for these positions will also be made during the beginning business meeting at the annual meeting in the 16-18 November. Please take time to consider deserving persons in the organization that would make good association officers. Submit any nominations to: Larry Modlin, Chairman, of the Nominations Committee. You can send them by e-mail to publicworks@cityofbsl.org.



Mid-Atlantic Mosquito Control Association Annual Meeting



The 38th annual MAMCA conference will be held March 13-15, 2013 at the Courtyard Columbia Downtown, 630 Assembly Street, Columbia, South Carolina. Conference room rates at the hotel are \$85.00 per night. Rooms may be reserved by calling 1-800-799-7800. When calling, you must mention that you are with a group - the Mid-Atlantic Mosquito Control Association - in order to receive the conference rate. Please make your reservations early. For more information about the MAMCA meeting, please contact your MAMCA state representative: Dr. Brian Byrd (bdbyrd@wcu.edu) or visit the MAMCA website (www.mamca.org).

Your 2012 NCMVCA Officers and Board of Directors

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Finance/Ex-Officio

Dr. Jung Kim
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2012 NCMVCA Annual Meeting Tentative Speakers List

Wednesday, October 24th

Robert Collins – Rocky Mount Mosquito Control (Topic Pending)

Eugene McRoy – Beaufort County Health Department, Vector Program Manager (Topic Pending)

LT Connie Johnson, MSC, USN Medical Entomologist – *Ticks and Why the US Navy Needs PhDs*

Dr. Bruce Harrison – *Update on the Key to the Mid-Atlantic Mosquitoes*

Thursday, October 25th

Victoria Banks, East Carolina University (ECU) student – *Species Composition and Insect Succession on Animal Carcasses in Eastern NC*, additional authors include **Stephanie Richards** and **Alice Anderson**.

Alice Anderson – ECU , Operation & Common Practices in Biosafety Level 3 Labs in the USA

Jonathan Harris, ECU student – Post-disaster implications of policy changes in NC mosquito control programs.

Dr. Carl Williams – Public Health Veterinarian, NC Division of Public Health (Topic Pending)

Joe Simmons – AMCA Mid-Atlantic Regional Director, Education Program

Dr. Jung Kim – NC Dept. of Agriculture and Consumer Services, NC Bedbugs.com and Educate, Educate, Educate

Dr. Michael Reiskind – North Carolina State University, Mosquito Assemblages and Landscape Ecology

Jeff Poupart – North Carolina Department of Environment & Natural Resources (Topic Pending-Permitting/Legislation)

Dr. Amadou Jallow – NCAGR/SPCAP, Overview of NC Pesticide Certification and Licensing

Ryan Harrison – Forsyth County Health Department (Topic Pending-Operational/Control)

Additional Speakers are Welcomed: Please contact Vence Dodge for more information.

vement.dodge@davidsoncountync.gov

Thursday, October 25th (Continued)

Dr. Brian Byrd – Western Carolina University (WCU), Student Engagement in Vector Biology at WCU

Michael Riles – WCU student, Vertical Distribution of *Aedes* mosquitoes: A comparative approach

Lauren Allen – WCU student, Relative abundance and temporal dynamics of mosquitoes collected at a La Crosse Encephalitis residence (Jackson County, NC)

Tyler McKinnish – WCU student, Sensitivity and specificity of morphological characters to distinguish *Culex restuans* and *Culex pipiens*

Friday, October 26th

Marcelo Schwarz– UNC-Greensboro PhD Student, Landscape Ecology of La Crosse vectors in Western North Carolina

Dr. Gideon Wasserberg – UNC-G, “Backyard” Ecology of *Aedes albopictus*

Consider Joining Other Professional Organizations

American Mosquito Control Association

<http://www.mosquito.org/>

Mid-Atlantic Mosquito Control Association

<http://www.mamca.org/>

Society for Vector Ecology (SOVE)

<http://www.sove.org/>

South Carolina Mosquito Control Association

<http://www.scmca.net/>

Virginia Mosquito Control Association

<http://www.mosquito-va.org/>



The NCMVCA welcomes Dr. Michael Reiskind (NC State University)

Dr. Michael Reiskind recently joined the faculty of North Carolina State University's Department of Entomology. Dr. Reiskind completed his undergraduate degree (Biology) at Amherst College (MA), and then a Masters in Public Health (Epidemiology) and PhD from the University of Michigan. Dr. Reiskind's research program addresses connections between arthropod ecology and the risk of infectious disease. His work focuses on the most pernicious arthropod vector, the mosquitoes, responsible for sickening or putting at risk as much as a third of the world's population. There are several areas of mosquito ecology that he finds particularly important (and interesting!). These include physiological ecology (or how the environment affects how individual mosquitoes grow, utilize resources, and reproduce), behavioral ecology (or how the environment affects how individual mosquitoes make choices, or don't), population ecology (or how the environment causes mosquito populations to grow or shrink), and landscape ecology (or how the environment determines the pattern of mosquito species and abundance in the landscape). Dr. Reiskind is also interested in the evolutionary and genetic context into which his ecological questions fit, and he is collaborating with folks with more experience in those areas.

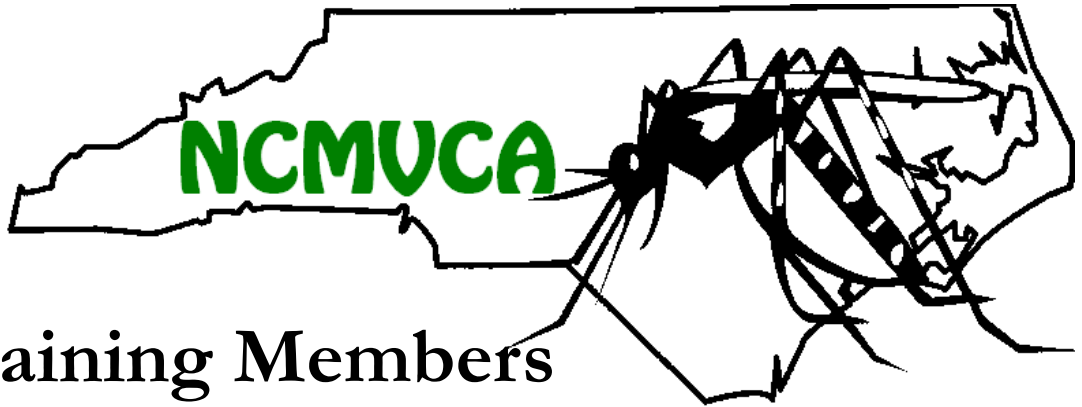
Dr. Reiskind will be presenting at this year's meeting. Be sure to introduce yourself and welcome him to the state! He may be reached by e-mail: Michael_Reiskind@ncsu.edu or by phone (919) 515-0719.

79th Annual Meeting of the American Mosquito Control Association

The 79th annual meeting of the American Mosquito Control Association will be held February 24-28th, 2013 at the Trump Taj Mahal, 1000 Boardwalk, Atlantic City, New Jersey. This year we will be celebrating the New Jersey Mosquito Control Association's 100th Anniversary.

"The AMCA Annual Meeting is the premier education and networking event for researchers, educators, vector control professionals, industry representatives, and students in mosquito control. Every year since 1935, hundreds gather to hear the latest research, share ideas, and form collaborations. The educational sessions and exhibit hall help to put attendees on the cutting-edge of this ever-expanding field!" For more information visit the AMCA website: www.mosquito.org





2012 Sustaining Members

<p>Adapco, Inc. <u>Steve Molnar</u> (877) 881-6105 Fax (866) 330-9888 SMolnar@MyADAPCO.com</p>	<p>AMVAC Environmental Products <u>Peter Connelly</u> 751 Ocracoke Sq. S.W. Vero Beach, FL 32968 (772) 563-0606 Cell (772) 205-5280 Fax (772) 205-5280 PeterC@amvac.net</p>	<p>Bayer Environmental Sciences <u>Don Botkin</u> 2 T.W. Alexander Drive RTP, NC 27709 (919) 549-2534 Cell (937) 209-1010 Fax (919) 549-3969 don.botkin@bayer.com</p>
<p>Central Life Sciences/Zoecon <u>Charlie Pate</u> 88 Whitney Street Eatonton, GA 31024 (706) 338-4734 Fax (706) 484-1720 cpate@central.com</p>	<p>Clarke Mosquito Control Products <u>Joe Strickhouser</u> PO Box 72197 Roselle, IL 60172 (800) 323-5727 Cell (704) 333-2523 joestrickhouser@clarkemosquito.com</p>	<p>Dynamic Aviation www.dynamicaviation.com</p>
<p>Duke Energy The Duke Energy Mosquito Control Program</p>	<p>Univar USA Contact the NC Pro-center at (919) 431-9320</p>	<p>Valent Bio Science <u>Jim Andrews</u> 4908 Wedgefield Drive Wilmington, NC 28409 (910) 547-8070 Fax (910) 392-7621 Jim.Andrews@valent.com</p>



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2012 NCMVCA Annual Conference Registration

October 24 – 26, 2012
 City Hotel and Bistro
 Greenville, NC

Sign Up For:	Member	Non-Member
<input type="checkbox"/> Registration (before September 15th)	\$65.00	\$70.00
<input type="checkbox"/> Registration (after September 15th)	\$75.00	\$80.00
<input type="checkbox"/> Companion/Spouse (before September 15th)	\$35.00	\$35.00
<input type="checkbox"/> Companion/Spouse (after September 15th)	\$45.00	\$45.00
<input type="checkbox"/> One Day Conference Registration Only	\$45.00	\$50.00
<input type="checkbox"/> Companion/Spouse Dinner ONLY (if not registered as attending)	\$35.00	\$35.00
<input type="checkbox"/> Student – all 3 days	\$30.00	\$30.00

Attending the Banquet? YES or NO

Total: (\$) _____

Name _____

Address _____

Phone Number _____

Method of Payment: Cash Check Invoice Required (Invoice will be mailed to address given)

Mail Registration To:
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c/o NCMVCA
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