

The Landing Rate Count

www.scmca.net

Newsletter of the South Carolina Mosquito Control Association

February 2018–Vol 44 • Issue 1

The President's Message

Robert Cartner

Hello Everyone, My name is Robert Cartner. I've been a member of the Medical Entomology Lab at SC DHEC for three years. Prior to that, I worked for a brief period at Richland County Vector Control. I'm fairly new to this industry, so at times this year, I may look to you for education and support. The collective experience and knowledge within our association is a tremendous resource that we should be utilizing as often as possible. Communication is a very important part of a successful organization, so should you have any questions about this association or industry, feel free to contact your regional representative or anyone on the Board.

Last year, 2017, was an active year for West Nile virus (WNV) transmission around South Carolina. The report has not been finalized yet, but at least 27 of the 46 counties in SC were reported to have some type of WNV activity, whether human, mosquito, veterinary animal, or bird. We all need to remain vigilant this year and continue our education and outreach campaigns to protect our citizens. South Carolina DHEC has implemented a new feature this year to keep everyone informed about mosquito-borne diseases in SC. The map, <https://gis.dhec.sc.gov/mosquitoborne/>, shows mosquitoborne diseases per county in birds, mosquitoes, and veterinary animals. I encourage everyone to use it to your advantage. As predicted, the weather in South Carolina remains unpredictable. Part of the Lowcountry is covered in snow one day and enjoying 70° temperatures a week later. Many of you will no doubt be asked in the coming weeks to predict the voracity of 2018's mosquito populations. My only advice would be to say, "Our mosquitoes are as predictable as our weather."

I would like to congratulate John Grant of Santee Cooper Vector Management for being the recipient of SCMCA's highest honor, the L.A. Williams, Jr. Award. I would also like to congratulate Tommy Bowen and Ken Manuel of Duke Energy Carolinas for being recipients of the coveted Silver Dipper Award. These individuals have given so much of their time and energy to the Association and they deserve the recognition. Thank you for all that you have done for SCMCA!

A list of SCMCA Award Criteria can be found on the SCMCA website, www.SCMCA.net, so supervisors, be on the lookout for up-and-coming superstars that you may want to nominate for SCMCA Technician of the Year. The deadline for nominations is September 27, 2018.

I want to thank the outgoing board members for their hard work and dedication to SCMCA and I want to welcome the new Vice President, Trey Reed, and the incoming board members for 2018. A special thanks to Dr. Chris Evans for putting together a wonderful Annual Meeting last year in North Myrtle Beach. I want to thank all of the 2017 Annual Meeting presenters for taking time out of their busy schedules to educate and entertain us. I especially want to thank all of our Sustaining Members for their continued support throughout the year. Be on the lookout for upcoming information about the 2018 Summer Workshop, which will be June 7th in Pinopolis, SC. The 2018 SCMCA Annual Meeting will be held at the Hilton Greenville in Greenville, SC, November 7-9, so everyone make sure to mark your calendars and plan on attending. This will be the first time SCMCA has held a meeting in Greenville and we have a wonderful venue set up for the occasion. As always, please be sure to share topics of interest, training opportunities, and information regarding your program or agency to Trey Reed for inclusion in the newsletter. Have a great year!



**Robert Cartner -
2018 SCMCA President**

Editor: Trey Reed

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Save The Date

**SCMCA
Summer Workshop**

Pinopolis, SC

June 7, 2018

**SCMCA
46th Annual Meeting**
Greenville, SC

2018 SCMCA Sustaining Members

Thank you for your time and contributions!

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2018 SCMCA Sustaining Members, continued

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SHEALYTL@dhec.sc.gov

Middle Region: Kat Sandel

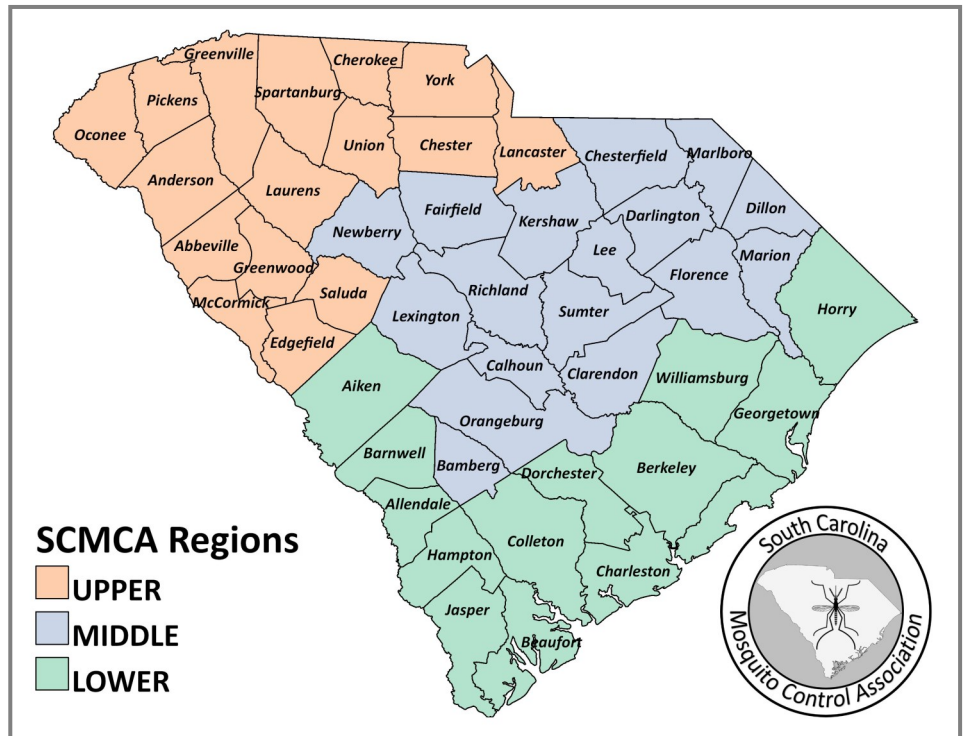
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Lower Region: Raymond Clark

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Upper Region - Travis Shealy

SCDHEC Bureau of Environmental Health Services, Columbia SC



Travis obtained a B.S. in Wildlife Biology from the University of Montana in 2004 and has been employed with DHEC since April, 2014. He is the Manager of the Rabies Prevention Program and also helps serve as a liaison between Vector Specialists and the State Entomologist. Travis is currently a board member for Mid-Atlantic Mosquito Control Association and also the South Carolina Mosquito Control Association.

Middle Region - Kat Sandel

City of Columbia Code Enforcement, Columbia, SC



My name is Katherine Sandel, and I'll be your middle region delegate for 2018. I'm a USC graduate with my degree in Marine Science and Biological Oceanography. I enjoy playing disc golf, hiking, and spending time with my friends, family, and pets. I got my start in vector control working for Richland County, as an Environmental Field Coordinator, from 2014-2017. I am currently employed at the City of Columbia Police Department working as a Code Enforcement Officer. I look forward to serving the association this year.

Lower Region - Raymond Clark

Santee Cooper Vector Management, Moncks Corner, SC



I am a native of Manning, South Carolina in Clarendon County. I am married to Nancy B. Clark and we have 4 children and we also have 10 grandchildren. I attended Benedict College in Columbia, S.C. I am employed with Santee Cooper of Monck's Corner in the department of Environmental Services. I have over 15 years of experience in the area of Vector/Mosquito Control. For the past 16 years I have served as a member of Clarendon County Health System Board of Trustee's. Presently, I am a member of Mcleod Health Hospital System. I am an active member of the New Bethel Missionary Baptist Church, serving as a youth Sunday School Teacher, chairman of the Men's Brotherhood and member of the Men's Choir. I am also very passionate about the work done with the Mentoring Program for young boys.

2017 SCMCA Annual Meeting

November 1-3, 2017



45th Annual Meeting of the South Carolina Mosquito Control Association took place November 1-3, 2017 at Ocean Drive Beach and Golf Resort in North Myrtle Beach, SC.

Presenters



A Full House!
2017 SCMCA Conference Attendees



Wayne Gale
AMCA Update



Emily Booth
CDC Bottle Bioassay to Detect Pesticide Resistance



Rich Blackmon
Local Program Highlight: City of Columbia, SC



Shelly Wilson
Mosquito Control & Environmental Health



Joe Conlon
Questions You Should Ask Anti-Mosquito Control Activists



Dr. Chris Evans
South Carolina Arbovirus Update



2017 SCMCA Annual Meeting Cont.



Travis Shealy
MAMCA Update



Gordon Patterson
Living in the Zika Latitudes



Dr. Jennifer Tsuruda
*Cooperation Between Mos-
quito Control and Profession-*



Dr. Tim Drake
*Obtaining Pesticide
Label Variances Dur-
ing Emergencies*

Awards



John Grant
LA Williams, Jr Award

*For Outstanding Service and Contributions to
Mosquito Control*



Ken Manuel & Tommy Bowen
Silver Dipper Awards

*In recognition for their support to SCMCA
and mosquito control in SC.*



Chris Evans
Presidential Plaque

For his service as the 2017 SCMCA President.

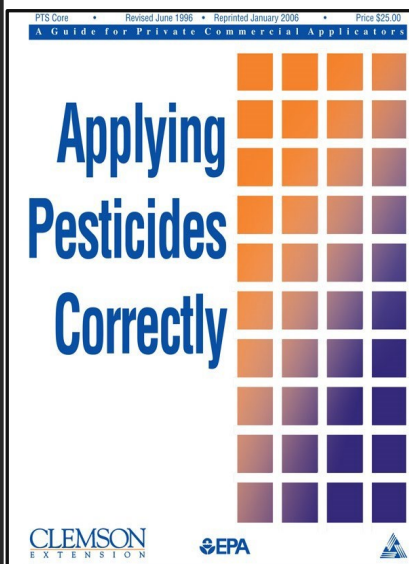
Banquet



Obtaining a Non-Commercial License for Mosquito Control

Chris Evans, MS, PhD

In order to obtain a Category 8 Public Health Pest Control License, you must obtain training materials prior to taking the exam. No classroom instruction is provided.



The two manuals needed are: (1) Core Manual – Applying Pesticides Correctly (PTS CORE), \$25; and (2) Category 8 – Public Health Pest Control (PTS8-SR18), \$15. Order the manuals online at <https://clemson.edu/dpr>, click “Exam Information” on the right, then under “Exam Information for SC Applicator’s License” click, “Order Exam Study Materials Online.” These manuals can also be ordered by phone from the Clemson University Bulletin Room:



(864) 656-3261 or (888) 772-2665. The exam fee for the Core + Category 8 is \$100. Each additional category is \$50. Before taking the exam, you must pre-register with the Clemson University Department of Pesticide Regulation (864-646-2150). Specifically, you should contact Holly Lizotte (Phone: 864-646-2164; E-mail: hlizott@clemson.edu) to pre-register. You must provide your name, address, phone number, social security number, and the name of the exam (Category 8). You will be given an

Identification Number. The exam location, date, and time will be set up during the pre-registration process. Directions to the testing center will be provided.

The exam is taken on a computer, and it is offered at testing centers around the state. The exam will cover the core principles of pesticide labels, environmental factors, pest and pesticide knowledge, pesticide laws, pesticide equipment and application techniques, and safe pesticide use, as well as knowledge specific to Public Health Pest Control. The results are known immediately upon completion of the exam.



To County Vector Control Departments in the South Carolina Midlands:

Mid-State Beekeepers Association would like to make you aware of an asset at your disposal. Our organization has grown a great deal over the past several years and we have developed a large email database of area beekeepers. While not all inclusive, we have the ability to quickly send an email alert to our 285 dues paying members and to over 550 local individuals that subscribe to our monthly newsletter in Lexington, Richland, Calhoun and surrounding counties. Of course we encourage all of our active members to register their hives with their local Vector Control departments as a first line of contact should contact be needed.

However if, for any reason, you have a need to send an alert out to local beekeepers we would welcome facilitating that action for you.

Thank You,
scmidstatebees@scmidstatebeekeeper.org

MEMORANDUM

TO: All Recertification Program Contacts

RE: Applicators Earning Credits in Recertification Block Ending December 31, 2018

DATE: January 10, 2018

FROM: Tim M. Drake Jr., Ph.D., Assistant Director
Tammy Lognion, M.S., Recertification Manager
Department of Pesticide Regulation

**DEPARTMENT OF
PESTICIDE REGULATION**

Clemson University
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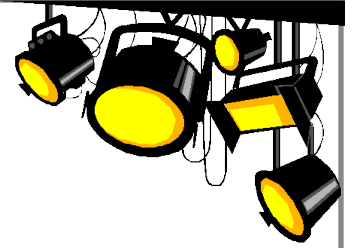
This year (2018) marks the last year in the current recertification block for Commercial/Noncommercial pesticide applicators in South Carolina. Because of a regulatory change that went into effect during this recertification block, applicators who earned zero (0) credits by December 31, 2017 will not be allowed to renew their licenses in 2019 unless they take the SC Recertification Examination between June 1, 2018 and December 31, 2018. This is the only option available to them in 2018. If these applicators choose not to take the Recertification Exam before December 31, 2018, they will be required to take the Core Exam and appropriate Category exams beginning in January of 2019.

Any courses or trainings that are completed by pesticide applicators with zero credits on or after January 1, 2018 will not be accepted by the Department of Pesticide Regulation for credit assignment. When giving trainings or courses to Commercial or Noncommercial pesticide applicators in 2018, it will be important to announce this prior to the training so that persons who cannot earn credits from these trainings will know this in advance.

For those sponsoring electronic trainings, please note this change in the online advertisement for all trainings intended for Commercial/Noncommercial applicators with SC licenses.

www.clemson.edu/dpr

Species Spotlight: *Anopheles punctipennis*



Description

Adults of *Anopheles punctipennis* are medium sized to large, with 2 pale spots on the leading edge of their highly patterned wings. Adults of 1 other species in our area, *Anopheles perplexens*, are very similar to adults of *Anopheles punctipennis*. The relative sizes of the pale spots have been used to tell these 2 mosquitoes apart. However, recent studies have shown



that the sizes of the pale spots can be so variable that this may not be a reliable way of differentiating between these 2 species. For now, distinct differences in their eggs may be the only reliable way of telling these 2 mosquitoes apart. The scutum of *Anopheles punctipennis* adults has a gray median stripe bordered by brown. The tarsi and palps are entirely dark scaled. Females feed on the blood of mammals, including deer, rabbits, livestock, and humans. *Anopheles punctipennis* is a very common pest species in neighborhoods, parks, and woodlands. Females usually bite just after sunset. Prior to the eradication of malaria in the United States, *Anopheles punctipennis* was important in malaria transmission in the southeastern states.



Larvae

Anopheles punctipennis breeds in a wide variety of permanent and semipermanent bodies of water, including sluggish streams, puddles, ponds, and stream overflow pools. Larvae can also be found in water-filled man-made containers, especially rainfilled barrels and watering troughs.

Distribution

Anopheles punctipennis is a common and widespread mosquito, found throughout much of the United States and southern Canada.

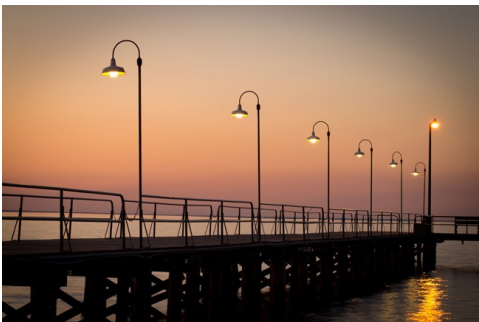


Distribution of *Anopheles punctipennis* in the U.S.

Burkett-Cadena ND. 2013. *Mosquitoes of the Southeastern United States*. Tuscaloosa, Alabama: University of Alabama Press.

2018 Calendar of Events

Date	Meeting/Event	Venue	Location
Feb 12-14, 2018	43rd Annual Conference of the Mid-Atlantic Mosquito Control Association	Courtyard Marriott Carolina Beach	Carolina Beach, NC
Feb 26-March 2, 2018	84 th Annual Conference of the American Mosquito Control Association	Sheraton Kansas City Hotel at Crown Center	Kansas City, MO
February 21, 2018	Clarke 2018 Workshop	https://www.clarke.com/workshops?state=SC	North Charleston, SC
February 22, 2018	Clarke 2018 Workshop	https://www.clarke.com/workshops?state=SC	Columbia, SC
June 7, 2018	South Carolina Mosquito Control Association Annual Summer Workshop	Santee Cooper Somerset Recreation Building	Pinopolis, SC
June 24-June 30, 2018	National Mosquito Control Awareness Week	http://www.mosquito.org/meetingsevents	
Nov 7-9, 2018	South Carolina Mosquito Control Association 46 th Annual Meeting	Hilton Greenville Room Reservations	Greenville, SC



Mark Your Calendars



June 7, 2018

SCMCA 2018 Summer Workshop

Pinnopolis, SC

Check SCMCA website for future updates and an agenda

Hope to see you all there!!



Web Resources

Resource	Website
American Mosquito Control Association	http://www.mosquito.org/
CDC Division of Vector-Borne Diseases	http://www.cdc.gov/nceid/dvbd
CDC Zika Virus Information	http://www.cdc.gov/zika/
Clemson University CEU Search (See <i>your</i> information)	http://regfocus.clemson.edu/dpr/ncommercial.htm
Clemson University Cooperative Extension Beekeeping	http://www.clemson.edu/extension/beekeepers/
Clemson University Department of Pesticide Regulation	http://regfocus.clemson.edu/dpr/
EPA Insect Repellents: Use and Effectiveness	http://cfpub.epa.gov/oppref/insect/
Florida Medical Entomology Laboratory (+ID Guide)	http://fmel.ifas.ufl.edu/
Florida Mosquito Control Association	http://www.floridamosquito.org/Home/
Mid-Atlantic Mosquito Control Association	http://www.mamca.org/
NC Mosquito and Vector Control Association	http://www.ncmvca.org/
SC DHEC Mosquitoes in South Carolina	http://www.scdhec.gov/mosquitoes
SC DHEC Reporting Dead Birds in South Carolina	http://www.scdhec.gov/birdtesting
SC DHEC Zika Virus Information	http://www.scdhec.gov/zika
Society for Vector Ecology	http://www.sove.org/
South Carolina Aquatic Plant Management Society	http://www.scapms.org/
SC Bee Keeper Association (Local assoc. links)	http://www.scstatebeekeepers.org/
SC Mosquito Control Association	http://www.scmca.net/
USGS (Arbovirus Disease Maps)	http://diseasemaps.usgs.gov/mapviewer/

Save the Date and Join Us...

For the 46th SCMCA Annual Meeting

November 7-9, 2018



Enjoy the Greenville skyline while you network with colleagues and earn you CEUs!



SOUTH CAROLINA MOSQUITO CONTROL ASSOCIATION, INC.

Attn: Olin Towery, Secretary Treasurer

Richland County Vector Control

400 Powell Road

Columbia, SC 29203

OFFICE PHONE: (803) 576-2428

FAX: (803) 576-2498

MEMBERSHIP APPLICATION

NAME:

ORGANIZATION:

ADDRESS:

WORK PHONE:

FAX:

E-MAIL:

TYPE OF MEMBERSHIP/ DUES (Renewal due at Annual Meeting)

Active Member	\$ 10.00
*Sustaining Member	\$150.00

***Includes one active membership**

Please make checks payable to SCMCA and return to Olin Towery at the address above.

For Office Use Only:

Region: Upper / Middle / Lower

Amount Paid \$ _____ Date Paid: _____ ☐ Check # _____ ☐ Cash

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SCMCA – Promoting Mosquito Control in South Carolina

The Landing Rate Count

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PLACE
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HERE