



# Alabama Vector Management Society

www.alabamavms.org

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## Are you ready for the 20<sup>th</sup> annual meeting of the AVMS in Mobile?

The 20th annual meeting of the AVMS will be held March 18-19, 2009 in Mobile, AL. Board members have already received confirmation from some great speakers and have succeeded in securing an exciting line up of presentations. The 20th annual meeting is sure to be an excellent one and we can't wait to see you there.

The AVMS wants to help you make sure that you are ready for the meeting and that you receive your credits for attending. Here are some important things to be aware of for the meeting.

- \* Are your certifications current?
- \* Have you made hotel reservations?
- \* Have you registered for the meeting?
- \* Parking at the hotel is 12\$ per day, so make sure and allocate for this expense.

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### Dates To Remember:

**March 18-19, 2009**  
AVMS 20th Annual Meeting  
Mobile, AL

**April 5-9, 2009**  
AMCA 75th Annual Meeting  
New Orleans, LA



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2008-2009**

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Montgomery, AL 36104

**The AVMS is grateful to have the support and sponsorship from industries.**

**Below is a list of sustaining members for 2008.**

<b>Vendor</b>	<b>Phone #</b>
Central Life Sciences/Zoecon	256-536-3134
Gil Manufacturing Inc.	334-284-8111
Univar USA	251-666-5995
Bayer Environmental Science	772-562-5550
Mosquito Control, Inc.	504-366-0084
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Cheminova	973-305-6600
Clarke Mosquito Control Products, Inc.	800-323-5727
ADAPCO Inc.	888-400-9085
Bell Laboratories Inc.	404-644-5150

**CODE OF ETHICS FOR MEMBERS OF THE  
ALABAMA VECTOR MANAGEMENT SOCIETY**

Preamble: The purpose of the Alabama Vector Management Society is to promote the management of public health pests and arthropod vectors of disease, provide for the educational and scientific advancement of members, encourage scientific research in vector management and public health pests, promote an exchange of information among members, and to extend and develop public awareness and interest in the discipline.

Public health pest and vector management provides services that are extremely important to the health, welfare and progress of society. Those employed in the public health pest and vector management profession have the responsibility to render effective and professional service to humanity, in keeping with high standards of ethical conduct. Therefore, in striving to advance

and maintain the honor and dignity of the profession, the Alabama Vector Management Society (AVMS) has established the following code to define the conduct and ethics due the profession. This code is binding on the membership of the AVMS.

AVMS members will use their knowledge and skill for the betterment of human welfare.

- Members will, at all times, strive to maintain the public trust, and advance the standards and principles established by the AVMS.
- Members will cooperate in the exchange of information and technology for the growth and progress of the public health and vector management profession and the AVMS.
- Members will not cause dishonor to the Society through their actions while representing the AVMS.
- Members will comply with all laws and regulations that apply to our science and profession.
- Members will promote solidarity, harmony and support among members and fellow workers. They will not undermine, vilify, berate or otherwise intentionally injure the work, accomplishments, efforts or professional reputation of another.
- Members will not conduct or in any way participate in a fallacious review of the work of a fellow worker or other



## VECTOR NEWS

### Fever Ticks Lay Claim to a Million Acres in Texas

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The Texas Animal Health Commission (TAHC) marked an ominous anniversary July 3<sup>rd</sup>, 2008 by expanding the preventive **cattle fever tick** quarantine area in south Texas by 307,000 acres, after the dangerous livestock pests were detected on cattle outside quarantine areas. Fever ticks (*Boophilus annulatus* and *Boophilus microplus*), capable of carrying and transmitting deadly "tick fever" to cattle, have been detected on livestock or wildlife on more than one hundred Texas pastures during the past 12 months. Today, Texas has more than a million acres under preventive quarantines.

On the front lines of the quarantine and eradication efforts are the ranchers in the preventive quarantine areas who must gather their cattle for inspection. In the south Texas brush country this usually requires helicopters and cowboys on horseback. Cattle, horses and ruminants, including llamas and camels, also must be inspected, treated and given permits prior to leaving the area. Historically, fever ticks preferred cattle, but sometimes hitched a ride on horses. Today fever ticks are being detected on white-tailed deer, sheep, red deer, and elk. This makes combating fever ticks much more difficult. The fever tick can survive winters from coast to coast and as far north as Washington, DC. It was successfully eradicated in the US in the 1940's. Since then, periodic incursions have occurred in Texas.

Currently, treatment of wildlife or exotic livestock is limited to providing corn treated with an insecticide, or setting up feeding stations equipped with treated posts that transfer pyrethrin, an insecticide, to the animal's head and neck. Later, as the animal grooms itself, the pyrethrin is distributed across its body, killing the fever ticks. The problem: some products require a 60-day withdrawal period, so they can't be used just prior to or during the hunting season. In the quarantined areas, the hides of harvested animals are either left behind, or inspected and treated prior to being removed from the premises.

Adapted from ProMED posting dated 3 July 2008

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## VECTOR EVENTS

### **The International Symposium on the Asian Tiger Mosquito**

The Center for Vector Biology at **Rutgers University** will be hosting "The International Symposium on the Asian Tiger Mosquito: Ecology, Evolution, Epidemiology, and Control", **12-13 February 2009**. The Symposium's overall goal is to set the future direction for Asian tiger mosquito research by identifying and proposing solutions to important obstacles in the study and control of these highly invasive pests. The Symposium will provide opportunities for active participation by students, postdocs and others by offering poster presentations. For information regarding poster presentations please contact Kristen Bartlett-Healy, [krisb@rci.rutgers.edu](mailto:krisb@rci.rutgers.edu). For further information regarding the Symposium please contact Mark Nelder, [mnelder@rci.rutgers.edu](mailto:mnelder@rci.rutgers.edu) and visit <http://www.rci.rutgers.edu/~vbcenter/atmsymposium.php> for future updates.

### **West Nile Virus National Conference - "Ten Years Later"**

The 2009 West Nile Virus National Conference will be held **February 19-20, 2009** at the Savannah Marriott Riverfront, in **Savannah, Georgia**.

Complete meeting details can now be found at the new 2009 WNV Conference web site (<http://mosquito.org/wnv/index.asp>). Find info on:

- \* Poster abstract submission (opening November 2008)
- \* Registration (opening November 2008)
- \* This meeting is sponsored by the American Mosquito Control Association (AMCA) and the Centers for Disease Control and Prevention (CDC).

### **The 75th AMCA Annual Meeting**

The 75th Annual Meeting of the American Mosquito Control Association will be held at the Hilton Riverside in **New Orleans, Louisiana** from **April 5-9, 2009**. This meeting will consist of presentations and exhibits that illustrate and highlight the latest science, technology and products used to conduct research and control vectors. This meeting also provides ample opportunities to network with vector control professionals, researchers and educators from around the world. Learn more at <http://www.mosquito.org/meetings/>



# Vector Spotlight

## *Anopheles quadrimaculatus*

"The common malaria mosquito"



*Anopheles quadrimaculatus* is a common mosquito in the southeast and was one of the most important vectors of malaria, prior to the successful eradication of malaria in the US. *Anopheles quadrimaculatus* is now considered to be at least five distinct species which closely resemble one another. The five species (which all occur in Alabama) are *Anopheles quadrimaculatus*, *Anopheles smaragdinus*, *Anopheles diluvialis*, *Anopheles inundatus*, and *Anopheles maverlius*. They are told apart by slight differences in scale patches found on the appendages.

*Anopheles quadrimaculatus* is found throughout much of the eastern U.S. including southern Canada and parts of Mexico. Larvae are dark bodied and, like other *Anopheles* species, lack a siphon. They are usually encountered in permanent bodies of water that support emergent aquatic vegetation.

Adult *Anopheles quadrimaculatus* mosquitoes are dark brown in color. They are told apart from other *Anopheles* species by the patterns of purely dark scales present on their wings. The pattern consists of four dark spots, which are composed of patches of dark scales located at the junctures of wing veins. Their long palps (mouthparts parallel to the proboscis) are also completely dark-scaled. Females of *Anopheles quadrimaculatus* feed on the blood of large mammals, particularly deer, cows, horses and humans. Adult females and males of *Anopheles quadrimaculatus* can be observed resting in great numbers in hollowed trees near the swamps and marshes where they breed. They can also be found resting under bridges over streams and other wet areas. In the winter months adults may enter homes in search of a sheltered place where they can avoid the freezing outdoor temperatures.

*Anopheles quadrimaculatus* was the historic vector of the parasite that causes malaria in the southeastern U.S. Although human malaria has been eradicated from the U.S., this vector species remains. Females of *Anopheles quadrimaculatus* can be pestiferous biters and will enter houses in search of a blood meal.

Light traps are somewhat effective at collecting *Anopheles quadrimaculatus* females. Many more adults, however, can be collected quite easily from resting sites near their breeding sites with a hand-held or backpack aspirator.

Control is achieved through larviciding and adulticiding.



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

Photos and text by Nathan D. Burkett-Cadena



Adult female of *Anopheles quadrimaculatus* blood-feeding. Note the dark patches on the wings.

ALABAMA VECTOR MANAGEMENT SOCIETY  
ANNUAL MEETING REGISTRATION FORM

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Gulf Shores, AL 36547

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ADDRESS: \_\_\_\_\_

CITY, STATE, ZIP: \_\_\_\_\_

TELEPHONE: \_\_\_\_\_

E-MAIL \_\_\_\_\_

**For Vender Information Contact:**

**Jimmy Quint.....Industry Liaison**  
**713 Lakeside Drive W.**  
**Mobile, AL**  
**251-666-5995**  
**james.quint@univarusa.com**

- PRE- REGISTRATION (BEFORE MARCH 1, 2009)                      \$75.00  
 REGISTRATION (AFTER MARCH 1, 2009 OR ON SITE)              \$100.00  
 STUDENT REGISTRATION    \$25.00  
AMOUNT ENCLOSED \_\_\_\_\_

MAKE CHECKS PAYABLE TO:

*Alabama Vector Management Society*

I UNDERSTAND THAT, AS A MEMBER OF THE AVMS, I AM EXPECTED TO ADHERE TO THE AVMS CODE OF ETHICS.

\*Registration/Membership dues are for AVMS membership year 2009 ALABAMA VECTOR MANAGEMENT SOCIETY



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