



The Skeeter

Volume 69, No. 1

April 2009

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President's Message

Thank you, VMCA Members, for the opportunity to serve as President of this great organization. It is truly an honor and it should be an interesting year! Our 62nd annual meeting was a success, despite initial concerns about low attendance. Thank you to all the speakers for sharing your research, knowledge and expertise. Thank you to the sustaining members. Your dedication and support year to year are very much appreciated and contribute greatly to the foundation of the VMCA. Many thanks also to those who volunteer "behind the scenes" to make it all happen. From registration, to audio-visual, to photography, to loading and unloading supplies, to managing the hospitality room and providing all the great munchies... you know who you are and your efforts do not go unnoticed!



Lane Carr
VMCA President 2009

Dates for the 2010 meeting have been tentatively set for Feb. 3-5 or Feb. 17-19. You may be interested to know that we have established a committee to investigate a new 2010 location. They are working hard to find the best possible meeting place and a decision will be made within the next month or so. I am grateful that after years of feedback from many members about a change in venue, this group of individuals has committed themselves to finding a new 2010 annual meeting location.

I encourage you all to get involved at some level because an active membership makes for a stronger organization. Volunteer for a committee. Offer your time to help out with any of the educational courses, including ID and recertification courses. Join us for an Executive Board meeting. Your participation, whether small or large, is valued.

Given the success of the 2008 Fairfax Larval ID Course, the VMCA partnered this year with Dr. Bruce Harrison and Parker Whitt to offer a Larval ID Course in Suffolk. We had attendees from Portsmouth, Hampton, Suffolk, Norfolk, Chesapeake, Virginia Beach and Henrico. The level of instruction was exceptional and everyone learned a lot. Dr. David Gaines will be the lead instructor for the annual Adult Surveillance & Identification Course. This course provides a great training opportunity for new hires, students, or interns. The Registration form and additional information are included in this newsletter, as well as on the website.

I am certain the planning and preparation stages for this season are well underway and best of luck for a successful year. Many mosquito control programs throughout the state will likely be operating on smaller budgets, less staff, and new challenges. Hold your head high and remain proud of the work you do daily in protecting the health of those around you.

Please don't hesitate to contact me or any of the Board members with any questions, feedback or concerns. We are here to serve our members and want to hear from you.

Lane Carr
VMCA President

2009 Awards

Leroy Bohn awarded Honorary Membership in the VMCA

Leroy started his career in mosquito control over 34 years ago and began his relationship with Virginia Mosquito Control Association. During the past 34 years he has served on numerous committees for state, regional and international organizations.

Leroy has arranged and/or taught at numerous Certification, Recertification and ID courses. He has been Chairman of AMCA

Educational Field Day Program and Chairman of the VMCA Education Committee. He has also served as VMCA representative for sustaining members at several annual meetings.

Leroy has served as VMCA President and has been awarded the Meritorious Service Award, Distinguished Service Award, Outstanding Service Award, Outstanding Leadership Award and the R.E. Dorer Award.

He is well respected throughout City, State and National organizations and his rapport with the VMCA general membership and Sustaining membership has contributed to the growth and success of the VMCA.



JoAnn Beasley awarded the R.E. Dorer Award in the VMCA

As a long time member of the VMCA Executive Committee, JoAnn Beasley has been the back bone of the organization and played a key role in its success. Being a consummate professional, she always assumes her many and various time consuming responsibilities with a professional can-do dedication. They entail collecting, maintaining, and keeping records; purchasing supplies as needed; attending executive meetings and recording minutes; maintaining a listing of membership; sending out meeting registration information; conducting registration at meetings; arranging for food at meetings and hospitality functions; obtaining items for meeting drawings; providing financial statements; Depositing received membership funds; mailing out voting membership ballots; and obtaining plaques for awards; in addition to providing support for recertification training. Over the years, without a doubt, JoAnn Beasley has done it all and voluntarily provided total support to the VMCA.



2009 Outstanding Services Awards

This year at the annual meeting there were two recipients of the outstanding service award. The first went to Lane Carr of Henrico County for all her hard work and dedication last year as VMCA's President Elect. The second award went to Dr. David N. Gaines of the Virginia Department of Health for his continued dedication to the organization as the instructor for the VMCA Adult Surveillance and Identification Course. Congratulations to both of this year's recipients.



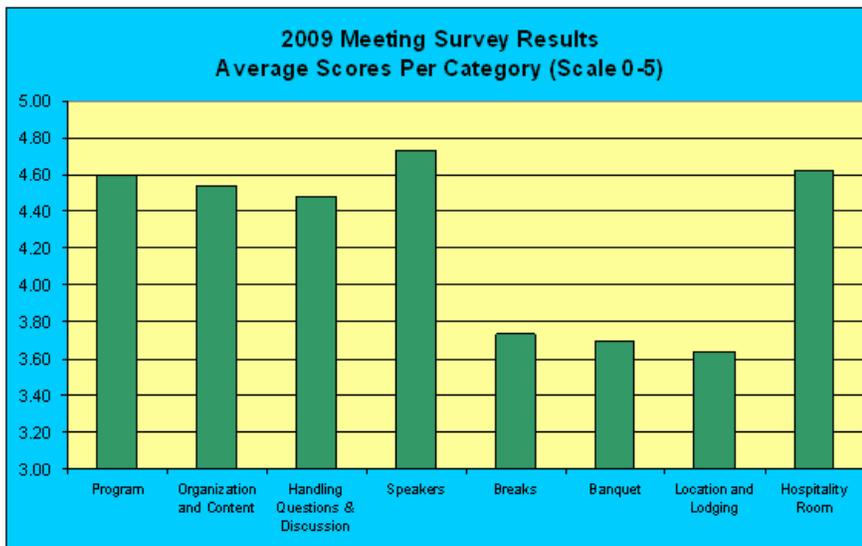
2009 Meeting Wrap Up

Attendance at the 2009 VMCA annual meeting reached 122 people. Despite the hardships of our drowning economy, it was a great turn out and we appreciate those of you whom attended or who were allowed to attend. Although we had great attendance, VMCA received only 28 surveys or 23% of the whole assembly, a three year low. We can do better than that VMCA, let's make it a point to get 50% next year.

If you take a look at the graph you can see that breaks, banquets, and location and lodging received the lowest scores, also a three year low. Many of you voiced your concerns about coffee supplies, banquet food menu, and the scenery provided by our historic location.

Although the amount of surveys completed was low, our scores for all the remaining categories were great, the scores reflected a three year high. This is always a good thing because the meeting was a success and VMCA is doing a good job. Information was updated, absorbed, and new ideas were formed because of a stunning program, great speakers, and our "having a good time" skills.

Thanks for being there and making it a success and we'll see you next year.



Meeting presentations are available for viewing on the VMCA website.

Digital Images provided by Carl Sivertsen, Fairfax Co; and Beverly Holmberg, Middlesex Co.

Thank you to Charles Abadam for preparing the survey summary this year!



Announcements

April 29 - 1	Fairfax County Larvicide Course– Fairfax County Health Department
April 30	TMVCC Meeting Clarke Calibration Rodeo- Jeff Hottenstein Newport News
May 6	VMCA Board Meeting being held at Chesapeake Deep Creek or possible 2010 Annual Meeting Location
May 11 - 13	11th Annual AMCA Spring Washington Conference
May 20 - 21	Adult Mosquito Surveillance and Identification Course (Suffolk, VA)

The VMCA is dependant on its members to get things done. Take the time to volunteer for a committee in 2009. Your meeting registration packets contained a form you can use to sign up for a committee. You can also contact any board member or committee chair at any time to participate.

2009 VMCA Presentations now available on the website!!!

www.mosquito-va.org/Annual%20Meeting.htm

**The VMCA organization has a new mailing address,
make sure you send all forms to the proper address.**

Virginia Mosquito Control Association
JoAnn Beasley, Secretary/Treasurer
179 Lilly Road South Mill, N.C. 27976
Phone 252-771-5221 or Cell 757-508-5224
Email dojobeas@earthlink.net

MANY THANKS TO OUR SUPPORTING VENDORS

The VMCA gratefully acknowledges the support of the following sustaining members for 2009. Without their generous contributions much of what we do would not be possible. Please do not hesitate to contact them. They are here to help you.

Ted Bean	Adapco, Inc.	tbean@myadapco.com 800-220-0882
Peter Connelly	AMVAC Chemical	pconnelly@amvac.net 772-563-0606
Don Botkin	Bayer Environmental Science	don.botkin@bayercropscience.com 931-209-1010
Charlie Pate	Central Life Sciences/ Zoecon	cpate@central.com 706-338-4734
Jeff Hottenstein	Clarke Mosquito Control Product	jeffhottenstein@clarkemosquito.com 800-323-5727
Matt Crabbe	Crabbe Aviation, LLC	crabav@gmail.com 804-334-7370
Caleb Stitely	Dynamic Aviation Group, Inc.	cstitely@dynamicaviation.com 800-717-1806
Doug Hill	Nikon Instruments, Inc.	dhill@nikon.net 804-512-2676
Katherine Reimann	Southwest Assurance Corporation	kreimann@bbprograms.com 813-222-4025
Zachary Cohen	Summit Chemical Company	jcohen@summitchemical.com 410-522-0661
Suzanne Luinis	True North Mapping, Inc.	suzanne@tnmapping.com 781-710-8933
Joe Andrews Al Kent	Univar USA	joe.andrews@univarusa.com 828-689-9147 Al.kent@univasusa.com 804-615-8648
Jim Andrews	Valent BioScience	james.andrews@valent.com 910-547-8070

MOSQUITO SURVEILLANCE AND IDENTIFICATION COURSE

INFORMATION SHEET

Course Title: Mosquito Surveillance and Identification Course

Instructor: **David N. Gaines, PhD** – Virginia Dept. of Health

Sponsor: Virginia Mosquito Control Association (VMCA)

Course Date: May 20 & 21, 2009

Location: Tidewater Agricultural Research and Extension Center, Holland, VA (8 mi. West of Suffolk City on Rt. 58)

Capacity: 20 students

Requirements:

Organizational members will have the first option to send an attendee. Individual attendees should have mosquito surveillance and/or identification in their job description and duties. Prior experience with microscope and background in biology preferred. Participants should bring their own microscope if possible.

****Application and payment must be received by May 7, 2009****

Course Fee: \$70.00 - Virginia Mosquito Control Association members
\$80.00 - Non-members. (VMCA membership included)

Course fee includes all training materials

Payment and/or arrangement for payment must be made before May 7, 2009. Contact Jo Ann Beasley, VMCA Secretary/Treasurer at 252-771-5221 or cell number 757-508-5224.



**Mosquito Surveillance and Identification Course
May 20th and 21st, 2009**

Tidewater Agricultural Research and Extension Center

Holland, VA (8 mi. West of Suffolk City on Rt. 58)

Schedule – Wednesday, May 20th

- 8:00 – 8:30 AM – Course Registration
- 8:30 – 9:30 AM – Lecture/slides on WNV, mosquito biology, and mosquito surveillance techniques.
- 9:30 – 9:40 AM – Break
- 9:40 – 10:10 AM – Lecture/slides on mosquito taxonomy and identification.
- 10:10 – 11:00 AM – Use of microscopes to identify unknown adult mosquito specimens to Genus level.
- 11:00 – 11:15 AM – Break
- 11:15 – 12:30 PM – Use of microscopes to identify unknown adult mosquito specimens to species level.
- 12:30 – 13:30 PM – Lunch
- 13:30– 14:30 PM – Use of Microscopes to identify unknown adult mosquito specimens to species level.
- 14:30 – 14:45 PM – Break
- 14:45 – 15:30 PM – Use of microscopes to identify unknown mosquito specimens to species level.
- 15:30 – 17:00 PM – Field Trip to set CDC-Light and Gravid Traps
- 17:00 PM – End of first day of class

Schedule – Thursday, May 21st

Thursday's activities involve some field studies. Please dress appropriately; wear rugged clothing and shoes that are water resistant or that you don't mind getting dirty. Bring rain gear just in case. If you have a shoulder bag that can be used for fieldwork, it will make your larval surveillance exercise easier. Bring a canteen, or other source of drinking water

- 8:30 – 9:30 AM – Lecture on the “Field Identification of Larvae” and “Knowing Larvae at the Generic Level”.
- 9:30 AM – 12:30 PM – Field trip to recover traps and trapped mosquitoes and field workshop on larval mosquito surveillance techniques and identification of larval growth stages.
- 12:30 – 13:00 PM – Return to the Laboratory.
- 13:00 – 13:30 PM – Lunch
- 13:30 – 15:00 PM – Use of microscopes to identify unknown mosquito specimens to species level.
- 15:00 – 15:10 PM – Break
- 15:10 – 17:00 PM – Use of microscopes to identify freshly trapped adult mosquitoes to species level.
- 17:00 PM – Class over

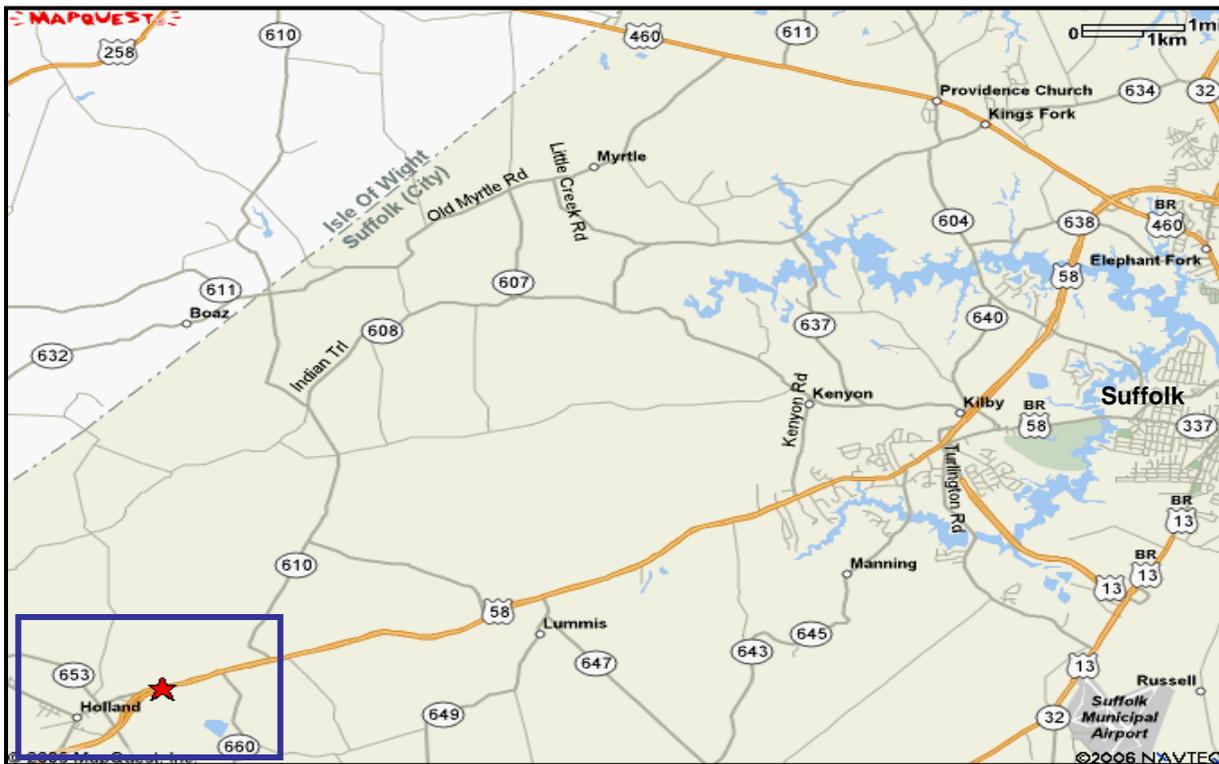
Course Location

The Mosquito ID Class will be held at the Tidewater Agricultural Research and Extension Center (TAREC) near Holland, VA. The TAREC facility is 8 miles west of the city of Suffolk on Rt. 58 [on the south side of road just east of Holland] (See Map below). The class will be held in the TAREC facility's auditorium. Ample parking space is available in the lot just in front of the building.

Overnight Accommodations

For those who are traveling from distant locations, hotel/motel accommodations may be necessary. A selection of four of the local accommodations within the Suffolk area are as follows:

- Days Inn, 757-539-5111, 1526 Holland Rd. [Rt. 58], Suffolk, VA (from \$64/night)
- Quality Inn, 757-934-2311, 2864 Pruden Blvd. [Rt. 460], Suffolk, VA (from \$69.99/night)
- Hilton Garden Inn 757-925-1300, 100 East Constance Road, Suffolk, VA (from \$89/night Ask for Byron Williamson and mention the VMCA)
- Super 8 Motel, 757-925-0992, 633 N Main St., Suffolk, VA (from \$55/night)



**Detail Map of
Holland, VA**



Mosquito Surveillance and Identification Course VIRGINIA MOSQUITO CONTROL ASSOCIATION



The Virginia Mosquito Control Association will be sponsoring a Mosquito Surveillance and Identification Course on May 20 & 21, 2009. The lead instructor will be David N. Gaines, Ph. D.

The course will cover mosquito biology, surveillance techniques, adult and some larval mosquito identification techniques. The class is limited to 20 seats, primarily for those who do the surveillance and identification of mosquitoes for their organization. Organizational members will have the first option to send an attendee. Seats will then be awarded on a "first come, first serve" basis.



The Registration Fee is \$70.00 for VMCA members and \$80.00 for non-members, which will include the class supplies. If possible, participants should bring their own microscopes. Lunch will be provided both days.

Directions and hotel information are listed in the Spring 2009 Skeeter.

**You must have your registration and payment
(or arrangements for payment) in before May 7, 2009**

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Identification Course Application

Name: _____ Phone: _____ Fax: _____

Affiliation: _____

Address: _____

City: _____ State: _____ Zip: _____

E-Mail: _____

Member _____ Non-Member _____

The course fee is \$70.00 for VMCA members and \$80.00 for non-members, which includes VMCA Regular Membership.

Please make check payable to: VMCA

Mail this form to JoAnn Beasley, Secretary/Treasurer VMCA, c/o 179 Lily Rd, South Mills, NC 27976

Telephone: (252) 771-5221 or Cell (757) 508-5224.

OR

Fax this form to Brian Prendergast, President Elect VMCA: (757)953-0685. Telephone (757)953-0734 or cell (757) 240-3946.

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TMVCC 2009

Greetings Everyone,

The TMVCC is gearing up for another season of great meetings and events. Our first scheduled event is the Clarke Calibration Rodeo to be held April 30th in Newport News. More information will follow regarding exact location of the Rodeo and on other upcoming events, so stayed tuned to your e-mail. I look forward to seeing everyone at our meetings.

Thanks,
Lisa Wagenbrenner President TMVCC

Tentative Schedule

April 30	Clarke Calibration Rodeo- Jeff Hottenstein- Newport News
May	Meeting will not be scheduled due to conflicts
June 10	Univar- Joe Andrews- Sandy Bottom Nature Park- Hampton
July 8	Valent- Jim Andrews- Location TBD
August 12	Central Life Science- Charlie Pate- Location TBD
Sept 9	AMVAC- Peter Connelly- Location TBD
Oct 14	Open
Nov 11	End of the year customer appreciation- Bayer/Adapco- Chesapeake Mosquito Control

2009 TMVCC Officers

President– Lisa Wagenbrenner (757)727-2808 lwagenbrenner@hampton.gov
 Vice President– Mitch Burcham (757)225-5592 burchamg@langley.af.mil
 Secretary– R. Joe Simmons (757)673-3932 rsimmons@cityofchesapeake.net

2009 VMCA Larval ID Course

The VMCA held its first Larval Identification Course March 30 & 31 in Suffolk, VA. Dr. Bruce Harrison and Parker Whitt made the trip from North Carolina to teach the class. Participants spent time identifying mosquito larvae and learning some very useful techniques. The class was a success and a very big thanks to our instructors, class coordinator Charles Abadam, and the following sponsors who helped provide lunch for both days as well as educator lodging and travel expenses.

Charlie Pate, Central Life Sciences/Zoecon

Ted Bean, Adapco Inc.

Al Kent, Univar USA

Jim Andrews, Valent BioScience



Virginia Mosquito Control Association Officers 2009

President: Lane Carr (804) 727-8359 car04@co.henrico.va.us
 President Elect: Brian Prendergast (757) 953-0734 Brian.Prendergast@med.navy.mil
 Vice President: Charles Abadam (757) 514 -7609 cabadam@city.suffolk.va.us
 1st Vice President: Clem Morrissey (757) 766-3301 clemhm@msn.com
 Secretary / Treasurer: JoAnn Beasley (252) 771-5221 or (757) 508-5224 dojobeas@earthlink.net
 Past President: Jennifer Armistead (703)507-7510 jsarmistead@gmail.com
 *TMVCC Representative: Lisa Wagenbrenner (757)727-2808 lwagenbrenner@hampton.gov
 *MAMCA Representative: Kirby Foley (757) 673-3932 kfoley@cityofchesapeake.net
 * Denotes a non voting member of the board.

2009 Organizational Members

ABC Termite Mick Mihalcoe P.O. Box 8786 Virginia Beach, VA 23450 Mick.abctpc@yahoo.com 757-422-0409	Chesapeake Mosquito Control Commission Gene Payne 900 Hollowell Lane, Chesapeake VA 23320 gpayne@cityofchesapeake.net 757-382-3458	City of Hampton Mike Elberfeld 419 N. Armistead Ave. Hampton, VA 23669 melberfeld@hampton.gov 757-727-2807
City of Newport News Marcus Leeper 505 Oyster Point Rd. Newport News, VA 23602 jleeper@nngov.com 757-269-2884	City of Portsmouth George Wojcik 2001 Frederick Blvd. Portsmouth, VA 23704 gwojick@portsmouthva.gov 757-393-8666	City of Suffolk Charles Abadam 441 Market St. Room 114, Suffolk, VA 23439 cabadam@city.suffolk.va.us 757-923-2049
Clarke Mosquito Control Andy Lima 7301 Gateway Ct. Manassas, VA 20109 alima@clarkemosquito.com 202-409-9640	Fort Eustis Yardley Butt 1407 Washington Blvd. Fort Eustis, VA 23604 yardley.butt@us.army.mil 757-237-3721	Gloucester County James Diggs P. O. Box 329, Gloucester, VA 23061 jdiggs@gloucesterva.info 804-693-5250
Henrico County Randy Buchanan P.O. Box 27032, Richmond, VA 23272 buc06@co.henrico.va.us 804-501-7332	James City County Rick Hall 115 Tewning Road, Williamsburg, Va wrhall@james-city.va.us 757-259-4116	Langley AFB James Will 1CES/CEOIE 37 Sweeney Blvd Langley, AFB James.will@langley.af.mil 757-764-3324
Langley AFB Mitchell Burcham 7154 Chapman Dr. Hayes, VA 23072 mitchell.burcham@langley.af.mil 757-764-3324	Navy Medical Entomologist Brian Prendergast, LCDR 620 John Paul Jones Circle, Suite 1100 Portsmouth, VA 23708 Brian.prendergast@med.navy.mil 757-953-0734	Prince William Lewis Jones 4092 Merchant Plaza Suite A Woodbridge, VA fjones@pwcgov.org 703-792-6279
Town of Boykins R.S. JR Edwards P. O. Box 363 Boykins, VA 23827 townofboykins@charter.internet.com 757-654-6361	Virginia Department of Health Dr. David Gaines 109 Governor ST. P. O.Box 2448 Suite 516 Richmond, Va 23219 david.gaines@vdh.Virginia.gov 804-864-8141	York County Thomas Gallagher P.O.Box 531 Yorktown, VA 23690 gallagher@yorkcounty.gov 757-890-3791

Are you a director, manager, lead mosquito control person for your area. Consider signing up as an organizational member, the cost is only \$15 but includes one regular membership.

Mid-Atlantic Mosquito Control Association (MAMCA) Update

The Mid-Atlantic Mosquito Control Association held their annual meeting at the Sheraton Oceanfront Hotel in Virginia Beach on February 25th through 27th. George Wojcik planned and put together a very successful meeting. If you were not there, you missed a good one and the food was great also.

The MAMCA Board will meet at the Hilton Hotel Riverside in Wilmington, N.C. on April 21st. The primary discussion will be the 2010 Annual meeting set for Savannah, Ga. There will be a summary of the Virginia Meeting and preliminary discussion on the North Carolina meeting for 2011.

Again, thanks to George Wojcik for a very nice and informative meeting.

Thanks,

Kirby



Digital Images provided by Al Sosa, City of Portsmouth

CUSTOMER SERVICE ASSESSMENT ITEMS

1. When interacting with customers (internal & or external) I maintain a positive attitude.
2. I make a conscious effort to put myself in the customers' shoes – so I can understand the situation from their perspective.
3. I take the time and make the effort to understand my customers' needs in detail.
4. When communicating with customers, I provide complete information in a simple, straightforward manner.
5. When interacting with disgruntled customers, I stay calm, polite, and respectful.
6. When I tell a customer I'm going to do something, I follow up and take action as quickly as possible.
7. When the internal bureaucracy make it difficult for me to serve my customers, I get creative and do my best to put the customers first.
8. When the demands during a workday become overwhelming, I set priorities – putting my focus on important and urgent work activities.
9. My co-workers and I talk about ways to improve service to our customers.
10. I set aside some time for myself each workday, knowing that all people need to recharge their batteries every now and then.

Submitted by Tom Gallagher, York County

Hot Tips to Help You Identify Rubbed Specimens

Everyone that has identified female mosquitoes has encountered specimens that are damaged, rubbed, or if on a point, covered in glue. The identifier usually gets fairly close to determining the species of the specimen, but the essential character or characters have been rubbed off or cannot be seen, and the identifier is left no choice but to call it *Ae.*, *Oc.*, *An.*, or *Cx.* species, etc. Unfortunately, there is another option, guessing, but that is a very bad choice because if you guess wrong it can cause problems in later virus isolation, distribution, behavior, habitat, and other data that will really mess up your records. During 10 years of teaching students to identify female mosquitoes for surveillance and pooling purposes I have noted that certain species are more likely to cause this problem than others. This is particularly true when specimens have been difficult to replace and become very rubbed after use in several classes.

Below are tips for helping you through rough spots in keys when the specimens are rubbed or damaged. Most of the tips are not new, but information provided, but not used in keys. Sometimes the best characters are not used in keys. That points out a benefit from reading species descriptions. The tips may not always help (depending on the condition of the specimen) but most of the time they have been a big help to me.

Aedes cinereus versus *Culex* species. *Aedes cinereus* is not a common mosquito in North Carolina and Virginia. Probably it is also under-reported. Misidentification is one possible reason for this. Because of its small size, dark legs and reddish-brown scutum it superficially looks like *Culex restuans* (without the spots on the scutum) or *Cx. salinarius*. So, if you find a *Culex* specimen that doesn't key well, check the following characters that are not on *Culex*, but are on *Ae. cinereus*: (1) sharp pointed abdomen, and (2) postspiracular setae.

Anopheles atropos versus *Anopheles quadrimaculatus* Complex. *Anopheles atropos* is a brackish water species and only occurs near salt marshes along the coast, while the *Quadrimaculatus* Complex is wide spread in fresh water habitats and also occurs along the coast. These species all lack pale scales on the palpi and wings. The four dense clumps of scales on the wing that are characteristic of the five species in the *Quadrimaculatus* Complex can also occur on *An. atropos*. So, when you have an entirely dark *Anopheles* specimen with the head scales rubbed off then look at the front coxa. If there is a large patch of black scales on the front coxa it is *An. atropos*. This patch is absent or represented by only 1-3 black scales on species of the *Quadrimaculatus* Complex

Anopheles crucians complex versus *An. punctipennis*. As of this time (Feb. 23, 2009) the *Crucians* Complex now consists of seven species (4 undescribed and unnamed). Members of that complex and *An. punctipennis* occur from the coast to the mountains. Normally these species have patches of pale scales on the wings, and while the palpi on *An. punctipennis* are dark scaled those on the species of the *Crucians* complex have bands of pale scales. It is common for the palpi and wings of all of these species to be badly rubbed. When this occurs look at the most posterior wing vein (anal vein or 1-A). *Anopheles punctipennis* has two patches of dark scales, i.e., a short patch near the base of the vein and a much longer patch of dark scales on the distal part of the vein. Members of the *Crucians* Complex have 3 small patches of dark scales on the anal vein, i.e., one basal, one middle, and an apical patch of dark scales. These scales are less likely to be rubbed.

Continued on Page 14

Continued from Page 13

Ochlerotatus mitchellae versus *Oc. sollicitans* versus *Oc. taeniorhynchus*. The first of these species is a fresh water species, while the last two are our ever-popular salt marsh species of tourist fame. However, the first species also occurs along the coast and the last two species can occur far inland in salty pools. All three species have a white band of the proboscis, basal pale bands on the abdominal segments, and broad basal pale bands on the hindtarsi. Since the last two species emerge in huge numbers badly rubbed and broken specimens from light traps are common. If you encounter such specimens there is a step-wise method for quickly separating them. (1) look at the wing scales – if there are mixed pale and dark scales all over the wing it is *Oc. sollicitans*. The other two species have all of the wing scales dark except for a small patch of pale scales at the extreme base of the costa (first vein at front of wing). (2) once you have eliminated *Oc. sollicitans*, then look at the dorsum of the abdomen – if there is a median longitudinal yellow stripe down the length of the abdomen it is *Oc. mitchellae*. If however, the abdomen is rubbed, then (3) look at the femur on all three pairs of legs - if they are dark and speckled with white creamy scales it is *Oc. mitchellae*. Once you have separated out *Oc. sollicitans* and *Oc. mitchellae* that leaves you with the third and usually smaller species, *Oc. taeniorhynchus*. **HOWEVER**, if the wings scales are badly rubbed, then (1) look and see if there is a yellow band of scales on the middle of the first hindtarsomere. If that band is present the specimen is *Oc. sollicitans*. If there is no middle pale band on the first hindtarsomere, then proceed through (2) and (3) above to separate the other two species. **Be careful about using the middle pale band on the first hindtarsomere.** There are two other species that occur along the coast and further inland that also have that character, i.e., *Coquillettidia perturbans* and *Psorophora columbiae*, and both can be very abundant along the coast.

Bruce A. Harrison
Public Health Pest Management
NC DENR
585 Waughtown Street
Winston-Salem, NC 27107

“Skeeter Band Rocks the House”

Check out Andy Lima (on guitar) and Charles Abadam (on harmonica) performing “Six Legs Don’t Stand a Chance”. Andy and Charles provided the entertainment at this year’s VMCA annual meeting luncheon and if you missed it, or want to see it again, it can be viewed at:

Vimeo: <http://vimeo.com/3313886>

YouTube: <http://www.youtube.com/watch?v=EOyb2m1gQVo>

Andy, a mosquito biologist at Clarke Mosquito Control, wrote the song a few years ago. The videos include the lyrics which are quite clever!

Thanks Andy and Charles for your willingness to share your musical talent!

VMCA Committees

Annual Meeting

Local Arrangements (Choose a meeting place and negotiate with the management over prices of room; decide on banquet details and negotiate prices; organize coffee breaks, biting times, etc.; secure meeting room(s) and commercial display area; in conjunction with the program committee, determine audio—visual equipment needs and make them available for the speakers; obtain fliers, literature on the area, etc. for registration packets; act as liaison between hotel and VMCA; and secure banquet entertainment if appropriate.)

Program Committee (Secure speakers for the program; coordinate time schedules and have substitute speakers available; allot money designated by the Executive Board for speaker rooms and banquets; determine all special needs for speaker presentations and work with local arrangements committee to secure them; secure banquet speaker if appropriate.)

Commercial Planning (Solicits participation at annual meeting from commercial suppliers; works with local arrangements to assure that displayers needs are met; responsible for set up/break down of display area.)

Audit Committee (Audit the records at the Secretary—treasurer for the annual meeting)

Awards & Resolutions A secret committee appointed by the president. (Take nominations from the executive board for special awards and resolutions and reviews materials supporting nominations; make decisions on who will receive awards and which resolutions will be adopted; through the secretary—treasurer, arrange for plaques, certificates, etc. to be available at the banquet; make presentations at annual banquet.)

Nominating Committee (Reviews new candidates for executive board and makes a formal nomination at the business meeting.)

Education (Determine through phone calls, surveys, etc. the educational needs of the association members; secure approval for the program from the Department of Agriculture; arrange meeting place, speakers, schedule, coffee break details, etc. for certification, pro—test or other courses; obtain all the necessary forms and submit paperwork for certification credits; aid the Department of Agriculture in developing new teaching materials.)

Public Relations (Organize and judge the grade school poster contest with the assistance of the host city organization; make the necessary contacts and appoint an individual to judge and make presentations at the Tidewater Science Fair; arrange Mosquito and Vector Control Awareness Week through the Governors office; seek media coverage during this week; act as liaisons between the VMCA and the media, with the approval of the president and aid member organizations who are seeking public relations ideas and materials; set up a display at the annual meeting.)

Information (Responsible for the SKEETER and dissemination of information regarding educational courses, upcoming events, new regulations, news on disease vectors, etc.; contact for members who are seeking information on the above.)

Historian (Collects and keeps records and information on the history of mosquito and vector control, especially as it applies to Virginia and the VMCA; sets up displays (in conjunction with PR committee) at annual meetings or other events; gives a presentation at the annual meeting, if feasible.)

VMCA Committees continued

Photography (Takes pictures at the annual meeting and other events for the web site and news letter.)

Membership (Actively promotes and recruits new members.)

Web Page (Designs and maintains the organization web page; responds to web inquires and or directs inquires to the proper person/locality.)

Resolution Committee (Prepares suitable resolutions for consideration of the membership at the annual meeting. Resolutions should be concerned with giving recognition to certain persons or organizations which contributed to the success of the meeting, such as the hotel, the sponsors, etc. Also, certain special resolutions should be prepared which might express the feeling of the Association on matters of importance to the Association such as sending a message to the Legislature or the State Health Department.)

Special Awards Committee (It shall be the duty of the Special Awards Committee to select a recipient for the R.E. Dorer award. The President shall receive information on applicants from the membership and others. The committee will screen all applicants and select one who is considered to be deserving of the award. While the award will be made at the annual meeting, it is not necessary to make an award if no one appears to be sufficiently qualified. In considering an applicant, the following criteria will be considered: Outstanding contributions beyond the normal call of duty. Continuing outstanding service over a period of years. High moral character. General recognition of outstanding achievement among his peers. Other items not listed above.)

Take the time to volunteer on a committee. An active membership makes for a stronger organization.

Contact anyone on the Board to participate.

President: Lane Carr (804) 727-8359 car04@co.henrico.va.us
President Elect: Brain Prendergast (757) 953-0734 Brian.Prendergast@med.navy.mil
Vice President: Charles Abadam (757) 514 -7609 cabadam@city.suffolk.va.us
1st Vice President: Clem Morrissey (757) 766-3301 clemhm@msn.com
Secretary / Treasurer: JoAnn Beasley (252) 771-5221 or (757) 508-5224 dojobeas@earthlink.net
Past President: Jennifer Armistead (703) 507-7510 jsarmistead@gmail.com
*TMVCC Representative: Lisa Wagenbrenner (757) 727-2808 lwagenbrenner@hampton.gov
*MAMCA Representative: Kirby Foley (757) 673-3932 kfoley@cityofchesapeake.net

The Skeeter is the official publication of the Virginia Mosquito Control Association.

The VMCA membership is encouraged to submit articles, reviews, and any other interesting facts or tidbits for publication. Submissions can be sent to Jennifer Martin at mar98@co.henrico.va.us

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**Newsletter of
The Virginia Mosquito
Control Association**

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www.mosquito-va.org

2009 VMCA Membership Application

*Membership payment is by calendar year and includes subscription to the VMCA Newsletter "Skeeter."
Memberships renew January 1ST each year*

NAME:	Regular	\$ 10.00
PHONE:	Associate	\$ 5.00
ADDRESS:	Student:	\$ 3.00
E-MAIL:	Organizational	\$ 15.00
ORGANIZATION:	Sustaining:	\$300.00
	TOTAL SUBMITTED	

Enclose proof of student status

Mail this form to JoAnn Beasley, Secretary/Treasurer VMCA, Telephone: (252) 771-5221 or Cell (757) 508-5224

Payable to: Virginia Mosquito Control Association,
JoAnn Beasley, Secretary/Treasurer
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