



# NEWSLETTER

by the OMCA Board Members

Volume 48, No. 2

[www.ohiomosquitocontrol.us](http://www.ohiomosquitocontrol.us)

September, 2013

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Aedes albopictus Mosquito photo  
above by James Gathany.

All photos in this newsletter are  
by James Gathany or an unknown  
photographer and were obtained  
from the CDC.

## In This Issue

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- ODH Arbovirus Update
- Grant-In-Aid Updates



## Message from the President

Summer is winding down and fall is almost, officially, upon us. Unfortunately, the mosquitoes haven't quite got the message and are still making meals out of us as though it were early July! With the coming of fall I am pleased to announce that we have an almost full agenda for our annual conference which is scheduled for Monday, October 21st, in Richfield. Register early to take advantage of "pre-registration" discounts from OMCA and great "OMCA Group" room rates from the hotel.

The Board has decided to again limit our conference to one full day of speakers with a "meet and greet" on Sunday evening. The change to a one day agenda was first implemented last year in an effort to contain costs for the association as well as attendees who have to travel. This change was successful in meeting those goals last year and so the "tradition" continues for 2013. This year's agenda has several interesting topics (you can view the complete agenda inside this newsletter) but one of the most important will be our first "talk", which will give some history on our organization and act as an open forum for discussing our future.

Please make plans to attend the conference and support our organization by bringing some new colleagues that we can introduce to our organization and grow our membership. This is the largest function we sponsor and its success is essential for the viability of our organization.

Thank you all for your continued support of OMCA and I look forward to seeing you all in October! Have a great rest of the season.

Your President,

Paul R. Bauman, MS, RS

## 2013 Annual Meeting Agenda

SUNDAY, OCT. 20

7:00 – 9:00 PM **Early Bird Hospitality**

# SUNDAY

Annual Meeting 2013  
October 21  
Days Inn and Suites  
Richfield, OH



### MONDAY, OCT. 21 MORNING: Paul Bauman, Presiding

- 7:30 – 8:15 **Registration**
- 8:15 – 8:45 **The History and Future of OMCA**  
Speaker TBA
- 8:45 – 9:15 **The Technology and Development of the RAMP Field Test for West Nile Virus**  
Jim Barr, ADAPCO/Response Biomedical
- 9:15 – 10:15 **Customized Electronic Field Data Collection for Mosquito Control Programs**  
Tim McGonegal M.S.Branch Chief  
Gypsy Moth and Mosquito Control  
Prince William County Public Works
- 10:15 – 10:30 **Break**
- 10:30 – 11:00 **The Ecology and Biology of Bedbugs**  
Margie P. Lehnert  
Biological Sciences Adjunct Professor  
Kent State University at Stark
- 11:00 – 11:30 **A Review of the Invasion Biology of Aedes japonicus in North America**  
Michael G. Kaufman, PhD  
Michigan State University
- 11:30 – 12:00 **Supplier Presentations**
- 12:00 – 1:00 **Lunch/Business Meeting**

### MONDAY, OCT. 21 AFTERNOON: Mike Cooper, Presiding

- 1:00 – 1:30 **Activities with the Northwest Mosquito Abatement District and Updates from the American Mosquito Control Association**  
Mike Szyska, Director  
Northwest Mosquito Abatement District, American Mosquito Control Association
- 1:30 – 2:30 **The Gypsy Moth and Forest Pest Control Practicest**  
Tim McGonegal M.S.Branch Chief  
Gypsy Moth and Mosquito Control  
Prince William County Public Works
- 2:30 – 3:00 **Is It More Than Just A Bite? Documentation of Antibiotic Resistant Bacteria Found on Mosquitoes**  
Lee Mitchell, Biologist  
Toledo Area Sanitary District
- 3:00 – 3:15 **Break**
- 3:15 – 3:45 **Open**
- 3:45 – 4:15 **Ohio Vector Borne Disease Update**  
Richard Gary, Ph.D., State Public Health Entomologist  
Ohio Department of Health
- 4:15 **Closing Remarks, Door Prize Drawing**

# MONDAY

*The opinions expressed by the speakers do not necessarily represent those of the Ohio Mosquito Control Association, its members, or the Board of Directors.*

## Grant In Aid Awards

For the first time in recollection, OMCA will be funding two “Grant-In-Aid” awards this year. The Board Members voted to fund two research projects this year since it has been several years since a “Grant-In-Aid” award was given out by our organization. As a result, we are pleased to announce and congratulate Travis Caulkins and Liu Lang for receiving “Grant-In-Aid” awards from OMCA.

Both Travis and Liu are students working with Dr. Peter Piermarini in the Department of Entomology at The Ohio State University. OMCA is pleased to be a part of new research that helps students achieve their educational goals. The funded projects fit well with our mission and help to provide a great opportunity for meaningful research.

Travis will be studying gap junction blockers and their potential role as vector control agents. Liu will be further examining the excretory system of *Culex pipens* and its role in diapause. We hope that these grants will help further the work these students are doing with arbovirus vectors and contribute to their success as researchers.

As part of their awards, each will be presenting their results at our 2014 annual meeting. We look forward to hearing more about these projects then.

Congratulations, again, Travis and Liu!

See last page for 2014 Grant In Aid Info.

## ODH Arbovirus Update

Ohio Arbovirus Work Group: ODH is chairing the Ohio Arbovirus Work Group, which includes representatives from other agencies, public health professional organizations and local health departments. This workgroup will update and enhance the arbovirus surveillance, prevention and response plan for Ohio. The goal is to align efforts in Ohio with national efforts by using the newly released (June 2013) CDC WNV guidelines as a primary reference. Whereas the original WNV plan for Ohio was created when there wasn't too much known about this virus in the U.S., this plan will be based on all the science and lessons learned since the virus arrived in New York in 1999. This plan will be ready to share by mid-Fall

2013 Arbovirus surveillance in Ohio: As everyone is aware, ODH can no longer provide testing as a result of budget cuts to the arbovirus surveillance program. Thanks to the many health departments who are sharing data from their local mosquito testing efforts, ODH is able to share that information statewide and nationally in order to provide some continued monitoring of statewide arbovirus activity. This is critical because it is the only early warning system in place to help guide prevention and control decisions to reduce the number of human WNV cases. Cooperating local agencies include Barberton – Norton Mosquito Abatement District, Cincinnati Health Department, Columbus Public Health, Delaware County Health District, Franklin Co. Public Health, Public Health - Dayton/Montgomery County, Summit County Health District and Toledo Area Sanitary District for sharing their findings on a weekly basis. ODH would love to hear from any additional health departments who have data to provide.

### OHIO MOSQUITO-BORNE DISEASE STATS AS OF AUGUST 23, 2013

#### West Nile virus:

Humans - 1 case in Cuyahoga County

Veterinary – 1 probable equine case in Guernsey County

Mosquitoes – available data in table below:

Submitting Agency	mosquitoes collected	Mosquito - WNV Test Results		
		mosquitoes tested	New (+)	Total (+)
Columbus Public Health	49,754	26,886	17	33
Franklin County Public Health	51,734	26,850	14	18
Delaware General Health District	1,141	996	1	2
P.H. Dayton & Montgomery County	10,658	3,687	5	7
Summit County H.D.	106,996	83,052	17	28
Barberton / Norton M.A.D.	23,163	10,047	2	4
Toledo Area Sanitary District	659	659		1
<b>Total</b>	<b>244,105</b>	<b>152,177</b>	<b>57</b>	<b>93</b>

At this time last year, there were 818 positive mosquito samples out of 148,025 mosquitoes tested. In an effort to draw a comparison with the data I have available, I did a rough (very rough) estimate of cumulative year-to-date minimum infection rate (MIR) for 2012 at this time (5.1 MIR) vs. 2013 as of today (0.6 MIR). Based on this estimate, there is nearly a tenfold decrease in mosquito infection rate observed in Ohio this year compared to this time last year.

#### La Crosse encephalitis virus:

Humans –2 cases: A 1-month old female infant from Cuyahoga County hospitalized with fever/seizures and a 5-year old female from Delaware County hospitalized with encephalitis

Imported human mosquito-borne diseases:

Dengue – 6 cases with travel history to Honduras, India, Puerto Rico and St. Vincent & Grenadines.

Malaria – 18 cases with travel history to African countries and Papua New Guinea.



### ARBOVIRUS ACTIVITY IN NEIGHBORING STATES AS OF AUGUST 23, 2013

Indiana: 1 human WNV case; Complete up-to-date Indiana arbovirus data can be found at: <http://gis.in.gov/apps/ISDH/Arbo/>. Activity has been detected at least 41 counties, including Steuben, DeKalb, Allen, Adams, Jay and Ohio counties on the western border with Ohio.

Illinois: 741 WNV positive mosquito samples and 30 positive birds in 47 counties.

Michigan: 1 human WNV case; 1 positive mosquito pool and 11 WNV positive dead birds from 6 counties.

Pennsylvania: 2 human WNV cases; 491 WNV positive mosquito samples and 7 WNV positive dead birds. Activity has been detected in 38 counties, including Beaver, Erie, Lawrence, Mercer and Washington counties on the eastern border with Ohio.

West Virginia: 2 human LAC cases, 3 LAC positive mosquito samples; 13 WNV positive mosquito samples in 8 counties, including Wood, Wayne and Cabell counties on the southeastern border with Ohio.





## OHIO MOSQUITO CONTROL ASSOCIATION

12300 Spruce Pointe  
Strongsville, OH 44149

### Grant-In-Aid Program

**Grant-In-Aid is available thru OMCA for up to \$1,000 to fund projects related to vector biology, ecology, surveillance or control.**

#### The Grant can be awarded to:

- Local or State mosquito control personnel
- Student research projects



#### Application requirements:

Please submit the following to the OMCA Board of Directors:

- Project description (1 page limit)
- Project time line (1 page limit)
- Proposed project budget\* (1 page limit)

*\*Travel funds to present project at the OMCA Annual Meeting may be included in the budget.*

#### Deadline:

All information should be postmarked by **May 1, 2014**.

#### Miscellaneous information:

- Example applications available upon request.
- Recipients are awarded a one year OMCA membership.
- Recipients are expected to present results at the first annual meeting following your proposed deadline.

**Please mail to:** Paul Bauman, M.S., R.S.  
Toledo Area Sanitary District  
5015 Stickney Avenue  
Toledo, Ohio 43612  
p\_bauman@yahoo.com



### Call for Speakers

Are there specific, category credit hours that you need for your license? Have you seen a great talk or do you know of anyone working on an interesting project who you would like hear speak at the OMCA annual meeting? We are always looking for speakers who cover topics of interest to our membership.

Please contact Mike Cooper with your ideas at [cooper@health.athens.oh.us](mailto:cooper@health.athens.oh.us).

**Annual Meeting 2013  
October 21  
Days Inn and Suites  
Richfield, OH**

### Newsletter Submissions

The newsletter belongs to all association members. If you are interested in a certain topic, or if you would like to submit a short article or other item, please contact any of the board members. Our contact information is on the front of this newsletter.

**OMCA PRE-REGISTRATION**  
**47th ANNUAL OHIO MOSQUITO CONTROL ASSOCIATION MEETING**  
October 21, 2013 (Early Bird Hospitality 7pm - 9pm October 20, 2013)

Days Inn and Suites Richfield  
4742 Brecksville Road, Richfield, Ohio 44286

THIS IS NOT THE HOTEL REGISTRATION - DEADLINE FOR HOTEL RESERVATION FOR GROUP ROOM RATE IS September 30, 2013  
**OMCA Group Rate is \$72.00 (Plus Applicable Taxes.) Reserve Hotel Room Early**  
Days Inn and Suites Richfield Phone: 330-659-6151 / Fax Number: 330-659-3819

**NAME:** \_\_\_\_\_

**WORK AFFILIATION:** \_\_\_\_\_

**WORK ADDRESS:** \_\_\_\_\_

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

**HOME ADDRESS:** \_\_\_\_\_

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

*Indicate above the Preferred Address that you wish to receive OMCA mailings.*

**Work Phone:** (     ) \_\_\_\_\_ **Home Phone:** (     ) \_\_\_\_\_

**Email:** \_\_\_\_\_

**ANNUAL MEETING PRE-REGISTRATION:**                   **\$75**

**REGISTRATION AT THE DOOR:**                         **\$100**

REGISTRATION INCLUDES: OMCA MEMBERSHIP, NEWSLETTERS, ANNUAL MEETING PROCEEDINGS, AND LUNCH

**STUDENT MEMBERSHIP:**  
**\$5 (MEMBERSHIP)**     LUNCH \$15 A DAY

MAKE CHECK PAYABLE TO: **OHIO MOSQUITO CONTROL ASSOCIATION**

**REGULAR MEMBERSHIP:** If you are unable to attend the Annual Meeting and wish to continue as a member in good standing. Please mail dues remittance with this form now. Membership Dues of \$25 annually entitle members to Newsletters and the Proceedings from the OMCA Annual Meeting.  
**OMCA Dues for the ensuing year are due at Annual Meeting.**

Mail Pre-Registration and payment to: **OHIO MOSQUITO CONTROL ASSOCIATION**  
**Joe Lynch, Treasurer**  
**12300 Spruce Pointe**  
**Strongsville OH 44149**

**Annual Meeting Pre-Registration payment must be received by September 30, 2013**  
Meeting Registration: Joe Lynch, 216-201-2001 ext 1241 or e-mail: [jlynch@ccbh.net](mailto:jlynch@ccbh.net)  
Substitution for Paid Registration Accepted, Cancellations after October 12, Minus Membership and Cost of Meals  
**OMCA Website:** [www.ohiomosquitocontrol.us](http://www.ohiomosquitocontrol.us)