

# TEXAS MOSQUITO CONTROL ASSOCIATION NEWSLETTER

**Volume 38**

**September**

**2018**



*Culex quinquefasciatus* gynadromorph (head of a female; terminalia of a male). Photo courtesy of Tarrant County Public Health

**Editor – James Garcia**

**Asst. Editors – Patrick Prather, Salvador Rico, William Sames**

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## 2018 Texas Mosquito Control Association Standing Committees

<b>Legislative</b>	<b>Mike Nichols, Chair</b>	R. Duhrkopf
<b>Membership</b>	<b>Greg Marciniak, Chair</b>	M. Nichols, M. Johnsen
<b>Program</b>	<b>Nina Dacko, Chair</b>	Board of Directors
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<b>Scholarship &amp; Awards</b>	<b>Jeff Flosi, Chair</b>	R. Duhrkopf

## 2018 Texas Mosquito Control Association Special Committees

<b>Auditing</b>	<b>Mike Nichols, Chair</b>	M. Johnsen, P. Beebe, C. Fredregill, W. Sames
<b>Constitution, By-laws &amp; Resolutions</b>	<b>William Sames, Chair</b>	S. Sawlis, W. Becker, M. Nichols
<b>Financial Support</b>	<b>Patrick Beebe, Chair</b>	J. Flosi, M. Nichols
<b>Local Arrangements</b>	<b>Rick Duhrkopf, Chair</b>	R. Duhrkopf, M. Nichols
<b>Nominating</b>	<b>Chris Fredregill, Chair</b>	J. Flosi, S. Sawlis, R. Duhrkopf
<b>Young Professionals</b>	<b>Kyndall Dye-Braumueller, Chair</b>	
<b>Systematics</b>	<b>Jeff Flosi, Chair</b>	R. Duhrkopf, W. Sames
<b>Workshop CEU's</b>	<b>Rick Duhrkopf, Chair</b>	M. Nichols, J. Flosi



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Adult Control  
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Aerial Applications  
Public Education  
Resistance Monitoring  
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**William (Bill) Sames**

## **Message from the President William (Bill) Sames**

As I write this, most of Texas is still dry with less than normal rainfall. If you are like me, when you get rain, you get it all in one day or a few hours, then it's dry for another month or two! It's so dry out here that scorpions come out of hiding to get a drink of water when you turn the faucet on to wash the dishes.

Meanwhile, West Nile virus is still out there and DSHS reported 368 positive mosquito pools in their August 4<sup>th</sup> report. Lots of positives, but this was lower than positive pools reported in early August in 2015 (483), 2016 (903), or 2017 (489).

Don't let down your guard! Drought years tend to concentrate available water sources, which means birds and other animals become concentrated as they try to access these waters. This may accelerate the transmission

between reservoirs, vectors, and susceptible hosts. More vectors with WNV then have a greater chance of spreading the virus to humans or other dead-end hosts like horses.

The DSHS report also listed a few mosquito pools positive for St. Louis Encephalitis and California Serogroup viruses. Fortunately, control measures for West Nile virus, SLE and CAL are the same. Suppress vector populations and use protective measures to protect susceptible populations. Remain vigilant and continue to do your part to protect your community through exceptional vector surveillance and control.

Don't forget the TMCA Annual Meeting is October 16-18 at the Hilton Garden Inn in Victoria, TX. If you plan to present, the DEADLINE for the Call for Papers is SEPTEMBER 7<sup>th</sup>. Nina Dacko, Chair, Program Committee, will send a final program to the membership shortly after that date. To guarantee a room at this location, book a room before OCTOBER 2<sup>nd</sup>. After that date, any rooms that were kept for the TMCA meeting become available to the public and they will probably fill fast.

If you are interested in serving on the TMCA Board of Directors, please contact Chris Fredregill, Chair, Nominations Committee, and let him know of your desires. You could also volunteer to serve on one of the many TMCA committees; contact the committee chair directly.

Something new and exciting this year. The TMCA created a Young Professionals Group and their first major activity was to organize a Student Paper Competition. This event will be held the afternoon of October 17<sup>th</sup> as part of the general session. Kyndall Dye-Braumueller is the Chair, Young Professionals Committee and she has the guidelines and other information about this event. Once again, the DEADLINE for paper submission is SEPTEMBER 7<sup>th</sup>.

The ADAPCO Keynote Speaker will be Mike Doyle from the North Carolina Department of Health and Human Services. I met Mike about 25 years ago through Tom Janousek, long-time TMCA member, and was impressed with his knowledge and enthusiasm about mosquito work. Mike will speak about his surveillance and control experiences and hopefully include something about his mosquito surveillance at 12,000 feet (Colorado) and at 0 (zero) feet in Florida.

### **TMCA Constitution and By-Laws**

The 2017 approved version of the TMCA Constitution and By-Laws were published in the June 2018 TMCA Newsletter with a request for comments or revisions. No comments or revisions were received; therefore, no changes will be made at the Annual Meeting.





Western Gulf Center of Excellence  
for Vector-Borne Diseases

Jackson, Mississippi - Aug 28 - 30

Monroe, Louisiana - Sept 11 - 13

San Antonio, Texas - Oct 2 - 4

Dallas, Texas - Oct 23 - 25

Weslaco, Texas - Nov 6 - 8

Houston, Texas - Dec 4 - 6

MASTER  
VECTOR-BORNE  
DISEASE  
MANAGEMENT  
CERTIFICATION  
COURSE

## 3-DAY MOSQUITO WORKSHOP INCLUDES:

***Vector Biology and Ecology:*** Training focused on Medical/Veterinary Entomology

***Epidemiology of Vector-Borne Diseases:*** Field instruction and Lab experience in vector surveillance

***Prevention & Communication Activities:*** Instruction on community wide implementation of prevention strategies, tools for developing programs

***Insecticide Resistance Monitoring:*** Hands-on application methods for assessing insecticide resistance monitoring

***Outbreak Response for Vector-borne Diseases:*** Integration of vector/pathogen surveillance and assessment with vector control management

All Fees Covered - Breakfast/Lunch





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## ADAPCO Keynote Speaker – Michael Doyle

### “The History and Challenges of Container Breeding Mosquitoes”



Michael Doyle of the North Carolina Department of Health and Human Resources will be this year’s ADAPCO Keynote Speaker. He will speak about “The History and Challenges of Container Breeding Mosquitoes.” Mike earned a Bachelor of Arts degree in Interpretive Natural History at Albion College in Michigan and a Master of Science degree in Entomology at Colorado State University.

His first career assignment was as an Environmental Consultant doing wetland delineations, then as a Regulatory Biologist for the Army Corps of Engineers.

He then worked with Colorado Mosquito Control, Inc., (CMC), and performed and supervised larviciding (hand, power backpack, and ATV), surveillance, adulticiding (truck, ATV, and aerial), equipment maintenance, mapping, database creation, and media relations.

He then became an Entomologist at the Centers for Disease Control and Prevention, where he studied mosquito behavior and vector competence in mosquitoes and related flies.

Later, he accepted a position as the Executive Director of the Florida Keys Mosquito Control District, where he supervised media outreach, finance, human resources, mosquito control efforts, and applied mosquito surveillance and control research.

Currently, Mike serves as the State Public Health Entomologist for the North Carolina Department of Health and Human Services. He specializes in mosquito disease issues. He assists counties with mosquito surveillance and control improvement; serves as a central resource vector information; and represents the State in the North Carolina Mosquito and Vector Control Association, the American Mosquito Control Association and other organizations as appropriate.

He works through collaborative projects with Michael Reiskind of North Carolina State University, Brian Byrd of Western Carolina University, and Stephanie Richardson of East Carolina University. He also collaborates with Alexis Barbarin, State Acarologist, on tick and other arthropod-vector diseases.

## TMCA Administrative Notes

**Publishing in the TMCA Newsletter.** The TMCA newsletter is a medium for getting information to TMCA members. Newsletter content is based upon contributions from TMCA officers and members, and whatever the editor can come up with to fill blank spaces and make the newsletter fun and informative. If you have information that would benefit TMCA members feel free to submit that information to the TMCA Editor or one of the several Assistant Editors. Normally, we print 4 issues per year with each issue coming out shortly after the quarterly Board of Directors meeting. Ideally, newsletters are sent in January, May, August, and November. Photos and mosquito related-humor are also welcomed. Have artistic talent? Consider drawing a design for the cover.



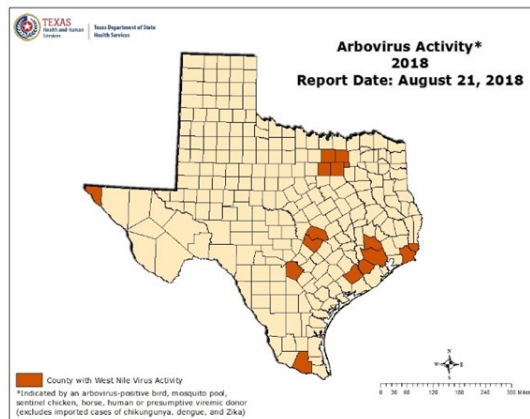
**Advertise in the TMCA Newsletter.** Advertising rates are \$50 for a whole letter-sized (8.5 x 11 inches) page ad. Half page ads are \$30 (8.5 x 5.5) Submit copy ready artwork to the TMCA Editor. Electronic files in MS Word or PDF are preferred.

**AMCA Annual Meeting,** February 25 – March 1, 2019, Caribe Royal Resort, Orlando, FL.

**TMCA Committees.** Interested in serving on a TMCA Committee? If yes, please contact the Committee Chair, let them know you want to be on the committee and ask what you can do to get involved and help the TMCA.

**West Nile Virus and Other Arbovirus Information at:**  
<http://www.dshs.state.tx.us/idcu/disease/arboviral/WestNile/>

Hey, if you haven't checked out this site, you need to! It is where the Department of State Health Services posts the most current disease information for Texas. These data are the results of county submissions to their program. If your county doesn't submit samples for testing, you will not know if the mosquitoes in your area are circulating diseases. It is a good program and this site will tell you how your county can become part of the testing.



**West Nile - Aug. 21, 2018**

In mid-July, DSHS confirmed the first three cases of West Nile illness in the state this year. We'll continue to update case counts weekly here each Tuesday.

In 2017, Texas reported 135 cases of West Nile illness that resulted in six deaths.

People can be infected by West Nile virus through the bite of an infected mosquito. People should prevent bites by applying insect repellent while outdoors, using air conditioning or making sure screens are in good repair, and covering up with long sleeves and long pants to prevent bites. It's also important to dump out standing water to keep mosquitoes from laying eggs.

**Reported 2018 West Nile Cases by County**

County	Nile Fever	Neuroinvasive Disease	Total
Dallas		4	4
El Paso		2	2
Harris		4	4
Hidalgo	1		1
Montgomery	1	2	3
Orange		1	1
Tarrant	1		1
Travis	1		1
<b>Total</b>	<b>4</b>	<b>13</b>	<b>17</b>

images retrieved electronically from the Texas Department of State Health Services at [www.dshs.state.tx.us](http://www.dshs.state.tx.us)





# Set your calendars for the 60th TMCA Annual Meeting!

Oct. 16-18th, in Victoria, Texas. The 16th is registration and the early bird social. The 17th is all day of presentations and the business meeting, and the 18th is a half day of presentations.

Come early or leave late. Check out some of Victoria's rich history and adventure!

[A checklist for Victoria.](#)



Hilton Garden Inn, Victoria TX.

Registration available at: [HILTON GARDEN INN—VICTORIA](#)

Make sure to mention TMCA for reservation rates. **Cutoff date for registration is Oct. 2nd.**

**TEXAS MOSQUITO CONTROL ASSOCIATION  
2018 ANNUAL MEETING  
VICTORIA, TEXAS**

**TUESDAY, 16 OCTOBER 2018**

5:00 – 7:00 pm      **Early Bird Mixer**  
7:00 – 10:00 pm    **TMCA Board of Directors Meeting**

**WEDNESDAY, 17 OCTOBER 2018**

7:00 - 8:30 am      **Breakfast Buffet** for meeting registrants and  
                                 companions included with your room

**GENERAL SESSION A**

8:30 am              Call to Order  
                                 Message from the President of the TMCA  
                                 Message from the AMCA Regional Director  
8:45 - 9:45 am      **KEYNOTE ADDRESS**  
9:45 - 10:00 am    **Scientific and Operational Presentations**  
10:00 am            Coffee Break/Visit Vendor Tables

**GENERAL SESSION B**

10:30 - 11:45 am    **Scientific and Operational Presentations**  
Noon                  **TMCA LUNCHEON** for meeting registrants and companions

**GENERAL SESSION C**

1:00 - 2:30 pm      **Scientific and Operational Presentations**  
2:30 pm              Coffee Break/Visit Vendor Tables

**GENERAL SESSION D**

3:00 - 4:00 pm      **Scientific and Operational Presentations**  
4:00 - 5:00 pm      **TMCA Business Meeting**

**THURSDAY, 18 OCTOBER 2018**

7:00 - 8:30 am      **Breakfast Buffet** for meeting registrants and  
                                 companions included with your room

**GENERAL SESSION E**

8:30 - 10:00 am    **Scientific and Operational Presentations**  
10:00 am            Coffee Break/Visit Vendor Tables

**GENERAL SESSION F**

10:30 am - Noon    **Regulatory Updates**  
Door Prizes  
Adjournment

**TEXAS MOSQUITO CONTROL ASSOCIATION**

**2018 Annual Fall Meeting**

**October 17 - 18, 2018, Victoria, Texas**

**PRE-REGISTRATION FORM**

**Pre-registration deadline is October 10, 2018**

**Pre-registration fee \$95, Walk-in registration \$110**

**Delegate and Student registrations include complimentary 2019 membership.**

**Please type or print clearly! We must be able to read your information!**

Name: \_\_\_\_\_

Employer: \_\_\_\_\_ Position: \_\_\_\_\_

Work Mailing Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Work Phone: \_\_\_\_\_ Work Fax: \_\_\_\_\_

Email Address: \_\_\_\_\_

Type of pre-registration: Delegate: \_\_\_\_\_ Fee: \$95 (Includes complimentary 2019 membership)

Name: \_\_\_\_\_ Spouse: \_\_\_\_\_ Fee: \$65 (Does not include membership)

Student: \_\_\_\_\_ Fee: \$65 (must show valid student ID)  
(Includes complimentary 2019 membership)

Total fee submitted: \_\_\_\_\_ *Checks payable to TMCA*

**Failure to send in your pre-registration form prior to the deadline will result in you being charged the \$110 walk-in fee. You do NOT have to send in your money with your pre-registration. As long as I receive your pre-registration form by the deadline, you can pay the pre-registration fee at the door.**

Mail, email, or fax the completed form (separate forms for each attendee, please) to:

Gregory M. Marciniak  
Jefferson County Mosquito Control  
8905 First Street, Beaumont, Texas 77705 Phone: (409) 719-5927 Fax: (409) 727-4176  
Email: [membership@texasmosquito.org](mailto:membership@texasmosquito.org)





# Texas Mosquito Control Association Fall Meeting, October 17-18, 2018

Hilton Garden Inn  
123 Huvar Street,  
Victoria, TX 77901, (361) 573-0303

## Exhibitor Registration Form

Company Name:					
Address:					
City:		State:		Zip:	
Phone Number:		Fax Number:			
Contact:		Email:			

### EXHIBITOR

1 (One) Booth \$300 Registrant (Name):	
2 (Two) Booths \$400 Registrants (Names):	
Booth Space Amount (More than two Booths, rate will be quoted)	

### EVENT SPONSOR (Sponsorship of events is on a first come basis)

Lunch Buffet (1 available)	\$1,125	
Hospitality Hour (1 available)	\$525	
Coffee Breaks (3 available)	\$250 ea.	
Event Sponsorship Amount		

### CONTRIBUTING SPONSOR

Please list my company as a contributing sponsor of workshop (minimum contribution of \$125 is required)	
--	--

**\*\*\* Exhibitors will receive one (1) complimentary registration per \$250 sponsorship.**

Payment Enclosed      Company Check mailed      Credit Card Payment (at workshop location)

Total .....

**IF PAYING BY CHECK, PLEASE MAKE ALL CHECKS PAYABLE TO: TEXAS MOSQUITO CONTROL ASSOCIATION** and sent to address provided below.

MAIL TO:

Patrick D. Beebe • Orange County Mosquito Control District • 123 S. 6<sup>th</sup> Street • Orange, TX 77630 • (409) 883-5717 • Fax: (409) 882-5333 • email: [pbbeebe@co.orange.tx.us](mailto:pbbeebe@co.orange.tx.us)

**TEXAS MOSQUITO CONTROL ASSOCIATION  
2018 ANNUAL MEETING, VICTORIA, TEXAS**

**CALL FOR PAPERS**

**NAME OF AUTHOR(S):**

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**PRESENTER (if different from above)**

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**PRESENTER'S EMAIL:**

**AFFILIATION AND ADDRESS:**

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**TITLE OF PAPER:**

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**PRESENTATION MEDIA REQUESTED**

POWERPOINT

OTHER (please specify)

**DEADLINE FOR PAPER SUBMISSION IS SEPTEMBER 7, 2018**

**Submit to**

Ms. Nina Dacko  
Tarrant County Public Health  
1101 S. Main Street  
Fort Worth, Texas 76104

**E-mail Address:**

[nmdacko@TarrantCounty.com](mailto:nmdacko@TarrantCounty.com)



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- Larval site surveys



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- Intensive inspection and treatment



### Adult Control

- Truck Mounted ULV Fogging
- Off-road UTV Fogging
- ULV/Backpack ULV Fogging
- Barrier Spray



### Consulting

- Insecticide Resistance Testing
- Mosquito insectorv
- Staff training/PPE/Safety





# Young Professionals First Annual Student Competition Guidelines

## October 16th - 18th, 2018 in Victoria, TX

### Eligibility:

In order to be considered eligible to enter the competition, each participant must be:

- 1) A TMCA Member. The membership form is available at <http://www.texasmosquito.org/Application.pdf>
- 2) a TMCA YP Member. If you are not a member please join via our Facebook Group: Texas Mosquito Control Association Young Professionals. If you do not have access to Facebook, please email [TMCAYP@gmail.com](mailto:TMCAYP@gmail.com) and we will put you on the list!
- 3) an undergraduate or graduate student **OR** have graduated within 12 months of the abstract submission deadline. If the participant has graduated, the research being presented must have been performed while they were still enrolled in either an undergraduate or graduate degree program.
- 4) the presentation's author(s) and presenter(s).

### Abstract:

An abstract must be submitted to enter the competition. The abstract deadline is **August 31, 2018**. Each abstract should be approximately 100 words long and summarize the main objective, methods, results, and conclusion of the presentation. The abstracts will be judged on grammar, organization, and content. Participants will be notified regarding acceptance in **September, 2018**. Please submit your abstract to [TMCAYP@gmail.com](mailto:TMCAYP@gmail.com) along with a copy of the abstract submission form found at <http://www.texasmosquito.org/AnnualMeetingCall.pdf> (Do not send the submission to Nina Dacko).

### Presentation:

Each presentation, including those with multiple speakers, will be allotted **12 minutes**. This includes time for questions so the presentation itself should not exceed **10 minutes**. (The time slot assigned for each presentation is subject to change due to last minute program changes.)

### Judges:

The TMCA YP Committee will select three judges to score the presentations. The judges will not be members of the TMCA YPs.

### Evaluation:

The competition will occur during the 2018 Annual TMCA Meeting. The presentations will primarily be judged on organization, delivery, and visual design. The evaluation system for this competition is subjective ranking by the three judges.

### Awards:

One presentation will be selected for first prize. One runner-up and two honorable mentions may be awarded at the judges' discretion. If a presentation given by a group is awarded a prize, the entire group will share the award.

**Meeting Registration:** <http://www.texasmosquito.org/AnnualMeetingPreReg.pdf>

## TMCA SCHOLARSHIPS

Deadline for Submission is September 15<sup>th</sup>!

### UNDERGRADUATE SCHOLARSHIPS

The **James D. Long Undergraduate Scholarship**, in the amount of \$1,000, is awarded each year to one qualified student who is attending a university in the state of Texas. The participating student agrees to spend at least one long semester (or the summer) during the academic year conducting research in an insect biology laboratory. A participating faculty member agrees to mentor and train the student in the laboratory. These individual research experiences are intended to develop a close educational collaboration between the undergraduate student and the faculty sponsor.

### GRADUATE SCHOLARSHIPS

The **Jimmy K. Olson Memorial Scholarship**, in the amount of \$1,000, is awarded to one qualified graduate student who is conducting research in conjunction with an organized mosquito control organization. The award is named after Dr. Jimmy Olson who was a long-time member of the Association and an ardent supporter of its goals. The recipient must be enrolled in a college or university in Texas at the time the scholarship is awarded. The student must submit an application made on the form provided by the Scholarship and Awards Committee.

The **James “Gus” Foyle Memorial Scholarship**, in the amount of \$1,000, is awarded to one qualified graduate student each year to promote and encourage research relating to mosquito control. The award is named after Mr. Gus Foyle who was a charter member of the Association and an ardent supporter of its goals. The recipient must be enrolled in a college or university in Texas at the time the scholarship is awarded. The recipient must be engaged in research with mosquitoes, insects, or related disease transmission. The student must submit an application made on the form provided by the Scholarship and Awards Committee.

For additional information, application guidelines, and application materials on either of these scholarships, please contact the chairperson of the TMCA Scholarships and Awards Committee.

Dr. Jeff Flosi  
Chair, TMCA Scholarship and Awards Committee  
1640 Hawthorne Street  
Houston, Texas 77006  
Email: [flosij@uhd.edu](mailto:flosij@uhd.edu)



# Protecting Public Health Together

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# Does Social Media work?

by Salvador Rico

Many businesses are certainly making a stronger effort to put their information on social media; it makes sense because that is where the people are these days. About 64% of business owners say that advertising on social media is a great tactic and believe it provides returns. Our return is a goal of educating the public about mosquitoes & their control. Granted not all postings attract a lot of people but as an example, we posted on the TMCA Facebook page a 1943 Walt Disney cartoon produced for the Office of The Coordinator of Inter-American Affairs titled The Winged Scourge. Since posting it, it has reached 1,422 people while being shared 15 times.

It was originally posted in YouTube back in 2008. According to IMDB (Internet Movie Database), it is the first of a series of health-related educational shorts produced by the Disney studios and the Coordinator of Inter-American Affairs for showing in “Latin America”. It was also the only one to use established Disney characters (the Seven Dwarfs).

In this propaganda short, the viewers are taught about how the mosquito can spread malaria. A young mosquito flies into a house and consumes the blood of an infected human. She then consumes the blood of a healthy human, transmitting the disease into him. It turns out that this is actually a film within a film and the Seven Dwarfs are watching it. They volunteer to get rid of the mosquito by destroying her breeding grounds.

To date, the highest TMCA Facebook people reached post are as follows:

Mosquito Control history... 1943 Disney (7/24/18).....	= 1,422
It may be a repeat but/Zika Virus in Salivary Glands (2/1/18).....	= 785
This is being shared by others/Fewer Scientist Are Studying Insects (2/15/18).....	= 494
There is this insidious myth that mosquito control activities harm bees (9/27/17) .....	= 352
Current: Chris Fredregill, speaking about Pesticide Safety (5/11/17) .....	= 347
A smart trap to capture those dumb mosquitoes (11/3/17) .....	= 312
We want you to join Texas Mosquito Control Association (10/19/17) .....	= 296
Health Officials watching mosquitoes in Texas after Harvey (10/8/17).....	= 223
Upon Request... Pecton Spines (11/6/17) .....	= 218
TMCA in Frederiksberg (10/18/17).....	= 218
Today's Technology (10/13/17).....	= 212

If it's interesting and of value, people will tune-in and tell a friend and so on & so on... reaching many people. In our Facebook page, our administrators are able to answer many incoming questions as we are knowledgeable in several aspects of Mosquito & Vector Control. Whether it's passionately or professionally, in the past, we have answered the incoming messages (sent thru Messenger or Inbox) to the best of our ability. Our goal is to reach out to as many people as possible and potentially have them become followers or members of our great Texas Mosquito Control Association.

# Legislative Committee Report

by Mike Nichols

1. Oxitec - On March 9, 2018, EPA announced an application by Oxitec for an experimental use permit for its genetically engineered *Aedes aegypti* mosquitoes (OX513A). Oxitec's mosquitoes are designed to suppress wild *Aedes aegypti* populations via genetically engineered male mosquitoes which are released into the environment to mate with wild female mosquitoes, resulting in offspring which do not survive. Oxitec's proposed experimental program is designed to take place over 24 months in Harris County, TX and Monroe County, FL. EPA recently reopened the comment period, with a new ending date of June 7, 2018. On June 4, 2018, AMCA wrote a letter to the EPA in support of this experimental use permit.

Source: American Mosquito Control Association

2. NPDES Fix – There two bills that are currently pending at the national level that would remove current NPDES requirements for FIFRA registered pesticides: H.R.953, Reducing Regulatory Burdens Act of 2017, and S.340, Sensible Environmental Protection Act of 2017. H.R.953 passed the House on 5/24/2018 and has since been attached as an amendment to H.R.2, Agricultural Improvement Act of 2018 (a.k.a. House Farm Bill). S.340 never made it out of committee and was not attached to the current Senate version of the Farm Bill. The House Farm Bill passed on 06/21/2018, and the Senate version passed on 06/28/2018. This bill is now in conference, with the NPDES fix hanging in the balance since it is only attached as an amendment to the House version.

Source: American Mosquito Control Association, Congress.gov

3, Endangered Species Act – The Environmental Protection Agency (EPA) recently determined that organophosphate pesticides used in mosquito control “may affect” 99% and are “likely to adversely affect” 97% of the endangered or threatened species in the U.S.A., and a follow-up study (Biological Opinion or BiOp) by the National marine Fisheries Service (NMFS) concluded that about 50% of the listed species they oversee are in “jeopardy” of extinction, and about 75% of the critical habitats are likely to be adversely affected, if these pesticide registrations continue as they are today. In response, EPA has been asked to implement the following

Recommended Prudent Measures (RPMs) on all chlorpyrifos, diazinon, and malathion labels:

- Prohibit application of pesticide products when wind speeds are greater than or equal to 10 mph.
- Prohibit application of pesticide products when soil moisture level is at field capacity, or when a storm event likely to produce runoff from the treated area is forecasted to occur within 48 hours following application.
- Report all incidents of mortality and adverse effects to non-target species that occur within the vicinity of the treatment area, including areas downstream and downwind, in the four days following application of and of these active ingredients to EPA's Office of Pesticide Programs.



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The EPA has also been asked to implement the following Recommended Prudent Alternatives (RPAs) on all chlorpyrifos, diazinon, and malathion labels: “Restrict mosquito applications to residential and developed areas within species’ range.”

AMCA and others within similar organizations contend that these recommendations were made by the NMFS because the Service could not geographically narrow down where the chemicals are being used. Therefore, they assumed the chemicals are used everywhere in the U.S. Then, if there was potential overlap between the chemical use and habitat for threatened or endangered species, restrictions were recommended. In addition to contending that the use and exposure data usage were unrealistically high, AMCA also contends that the thresholds for finding significant impacts to species were absurdly low (a 1/1,000,000 chance of mortality to one organism was used to define an impact on an entire species).

The BiOp was published to comply with a court-ordered deadline, although NMFS had requested 2 additional years in full coordination with other agencies and the public on a more appropriate method for developing the BiOp. The comment period for the NMFS BiOps opened on 03/23/18 and ended on 06/23/2018.

Source: American Mosquito Control Association

4. AMCA 20<sup>th</sup> Annual Washington Conference – Held May 14-16, 2018. Texas attendees include Nina Dacko (Tarrant County Public Health) and Ed Bredemeyer (Central Life Sciences). Positions discussed with legislators were as follows:

- Funding Comprehensive Vector Control
- Minimizing Duplicate Regulations (NPDES Permits)
- Endangered Species Act Considerations and Mosquito Control

Source: American Mosquito Control Association

5. Texas – Austin City Council passed a resolution that restricts the use of glyphosate, neonicotinoids, and chlorpyrifos on city-owned property. The new policy also affirms that contractors who apply pesticides inside city buildings do so in accordance with the city’s IPM policy.

Source: Austin Monitor

6. New York – Banning Methoprene (trade name Altosid) in the Long Island vicinity. New York State Assembly Bill A6336A, an amendment to section 33-1301 of the environmental conservation law was proposed by adding a new subdivision 12 relating to make it unlawful for any person the use of any pesticide that contains the active ingredient isopropyl (2E, 4E)-11 Methoxy-3, 7, 11 Trimethyl-2 4 Dodecadienoate (Methoprene) in any storm drain, conveyance for water or fish habitat in any municipality adjoining the Long Island sound and the Atlantic Ocean and their connecting water bodies, bays, harbors, shallows and marshes provide, however, an emergency application of such pesticide may be made as determined by the county health department in cases where there is a significant threat to public health. This amendment was not brought up to a vote before the session’s end.

Source: New York State Assembly



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# Texas Mosquito Control Association

## Membership Application

**Purpose:** To assist in promoting public health and comfort through the control of disease transmitting and pestiferous mosquitoes, to provide for the scientific advancement of Association members, and to stimulate public interest in mosquito control activities.

**Publications:** A Newsletter is published quarterly and emailed to active members. The Association web site is located at <http://www.texasmosquito.org>

**TMCA Annual Fall Meeting:** Held each year during October at an announced site within the state. Papers presented at this meeting are primarily technical reports dealing with new and improved methods of mosquito control, new insecticides and application techniques. Basic research related to mosquito life cycles, bionomics, diseases, and natural histories are also presented. Distributors are present to display and answer questions about their equipment and chemicals. A registration fee is required to attend.

**TMCA Spring Workshop:** Held each year during February or March at an announced site within the state. This is a basic training workshop on the operational aspects of mosquito control. Topics include general mosquito biology, mosquito borne diseases, sampling and surveillance techniques, methods of mosquito control, public relations, equipment maintenance, chemicals and chemical safety, record keeping, administrative problems, and advanced operational training in calibration, droplet size determination, mosquito identification, and surveillance devices and techniques. Distributors are present to display and demonstrate their products. Registration is free, and several meals are usually provided by the TMCA to help reduce costs to attendees.

**CEU's:** CEU's for the Texas Department of Health Vector Control Certified Applicator License are offered at the Spring Workshop. Fees are \$20 per hour of CEU requested for non-members, free to all TMCA members. A copy of the TDA regulations can be downloaded from the TMCA web site at <http://www.texasmosquito.org>

**Annual Dues:** Dues are payable on a calendar year basis. Active Memberships are \$30 per year, and Supporting Memberships are \$60 per year.

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Name: \_\_\_\_\_ Date: \_\_\_\_\_

Affiliation: \_\_\_\_\_ Position: \_\_\_\_\_

Work Mailing Address: \_\_\_\_\_

City & State: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_ Email: \_\_\_\_\_

Membership type applied for: Active (\$30): \_\_\_\_\_ Sustaining (\$60): \_\_\_\_\_

Make check payable to:

Texas Mosquito Control Association

Return application & remittance to:

Greg Marciniak, Membership Chairman  
Jefferson County Mosquito Control District  
8905 First Street  
Beaumont, Texas 77705

Phone: 409-719-5927 Fax: 409-727-4176 Email: [membership@texasmosquito.org](mailto:membership@texasmosquito.org)