

# TEXAS MOSQUITO CONTROL ASSOCIATION NEWSLETTER

**Volume 41**

**August**

**2021**



**Sometimes strange things are encountered when out collecting mosquitoes.  
Photo: William Sames, background edited**

**Editor – William Sames, Ph.D.**

**Contributors – Greg Marciniak, Cassie Soeffing, Jose Juarez Valdez**



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**About the Cover:** This tree in South Texas grew around a water hose that had been left there too long. In many cases, when branches break off or are cut off a tree, the tree will grow over it, to include any tree hole it may have contained. Photo by William Sames IV.

# Protecting Public Health with Science-Based Solutions



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## Target Specialty Products Announces New Product Representative for Texas

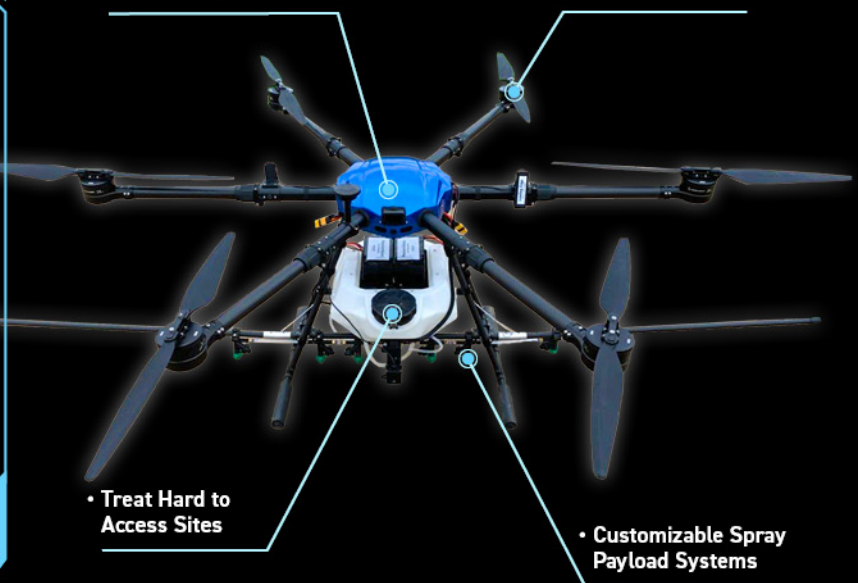
Target Specialty Products is pleased to announce that David Herter is now our regional vector specialist for Texas effective July 6th. David comes to Target from Idaho, where he worked for a mosquito district for 31 years, the last 16 of which he served as director. His phone number is (318) 254-3330, and his email is [david.herter@target-specialty.com](mailto:david.herter@target-specialty.com). Give David a call and discuss how Target can help you accomplish your mosquito control mission.



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## Oct 2020-Oct 2021 Texas Mosquito Control Association Board of Directors

<b>President</b>	<b>Greg Marciniak</b>	Jefferson County Mosquito Control (retired), Beaumont, TX
<b>President-elect</b>	<b>Nina Dacko</b>	Tarrant County Public Health, Vector Control, Fort Worth, TX
<b>1<sup>st</sup> Vice-President</b>	<b>James Garcia</b>	City of Baytown Mosquito Control, Baytown, TX
<b>2<sup>nd</sup> Vice-President</b>	<b>Meagan Wise-de-Valdez</b>	Texas A&M University San Antonio, San Antonio, Texas
<b>Director</b>	<b>Megan McNairn</b>	The Woodlands Township Environmental Services, The Woodlands, TX
<b>Director</b>	<b>Sonja Swiger</b>	Texas A&M AgriLife Extension, Stephenville, TX
<b>Secretary</b>	<b>Patrick Prather</b>	Municipal Mosquito, Richardson, TX
<b>Treasurer</b>	<b>Salvador Rico</b>	Harris County PHS Mosquito Control Division, Houston, TX
<b>Past President</b>	<b>Salvador Rico</b>	Harris County PHS Mosquito Control Division, Houston, TX

To contact a Board member, please send an email to [info@texasmosquito.org](mailto:info@texasmosquito.org) and list the person you are trying to contact, present your question or concern, and provide your name and contact information.

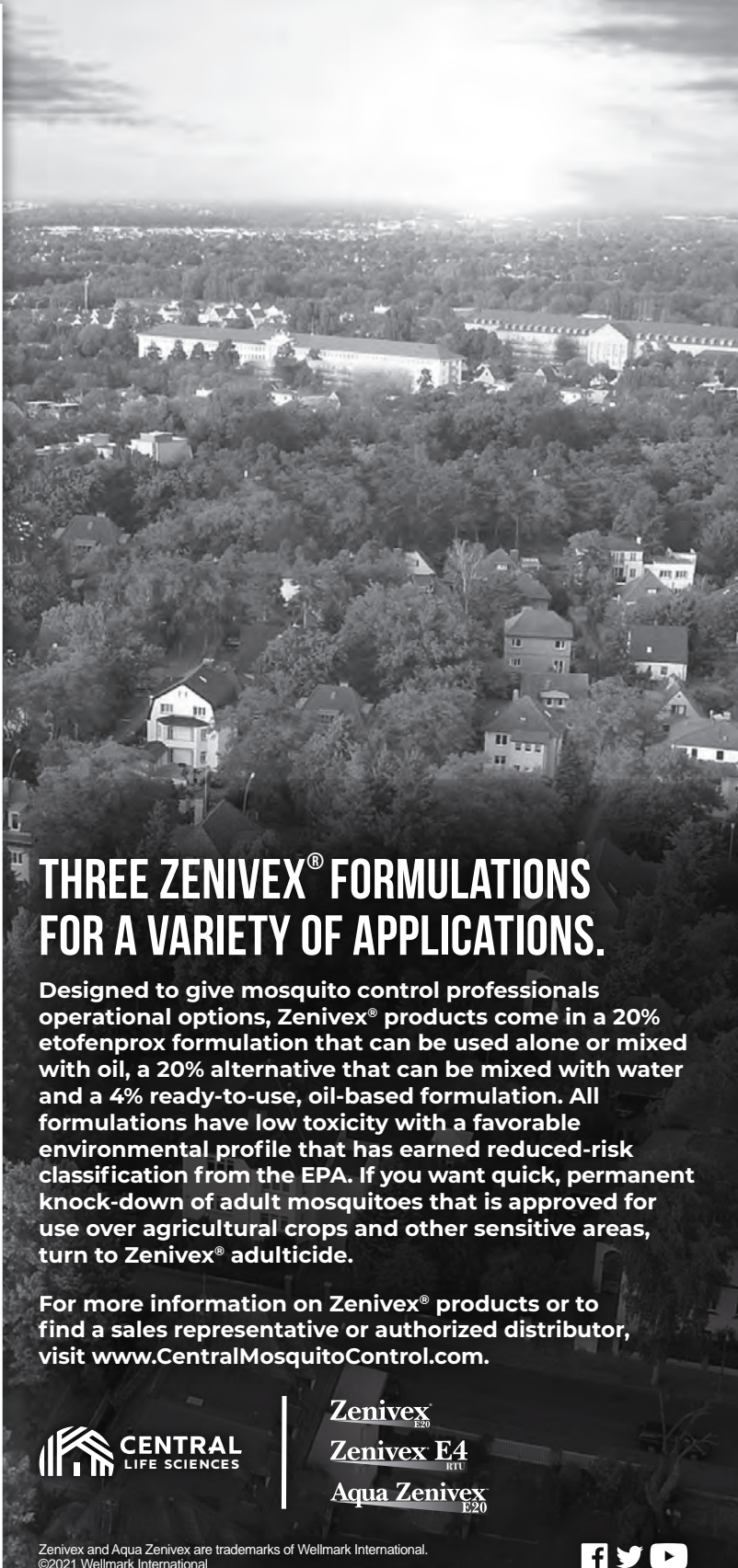
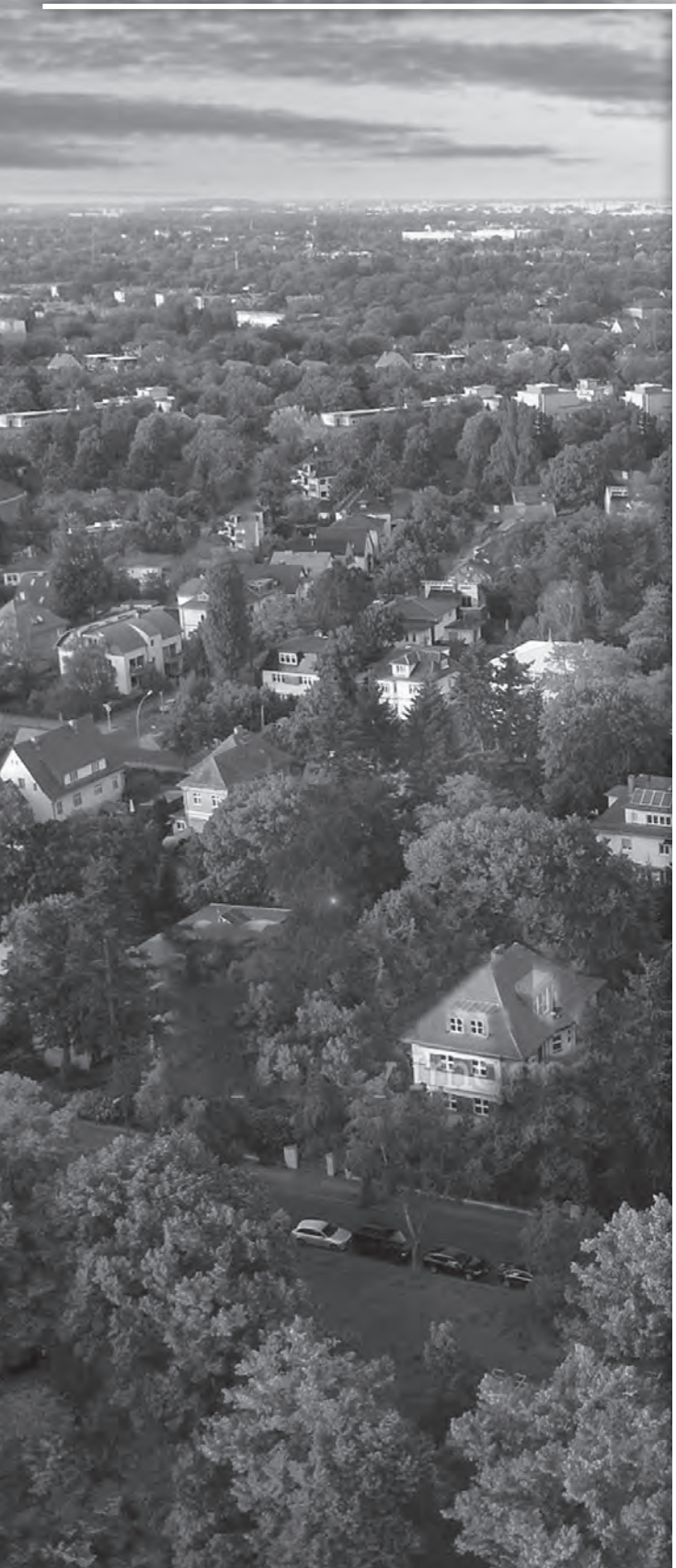
## Oct 2020-Oct 2021 Texas Mosquito Control Association Standing Committees

<b>Legislative</b>	<b>Mike Nichols, Chair</b>	R. Duhrkopf
<b>Membership</b>	<b>Mark Johnsen, Chair</b>	M. Nichols, P. Prather, M. McNairn, S. Swiger
<b>Program</b>	<b>Nina Dacko, Chair</b>	Board of Directors
<b>Publicity/Newsletter/Media</b>	<b>Nina Dacko, Chair</b>	W. Sames (Chair, Newsletter Subcommittee), M. McNairn (Chair, Website Subcommittee), S. Rico (Chair, Social Media Subcommittee)
<b>Scholarship &amp; Awards</b>	<b>Jeff Flosi, Chair</b>	R. Duhrkopf, N. Dacko, W. Sames, M. Wise-Valdez

## Oct 2020-Oct 2021 Texas Mosquito Control Association Special Committees

<b>Auditing</b>	<b>Megan Wise-de-Valdez, Chair</b>	M. Johnsen, P. Beebe, C. Fredregill, W. Sames
<b>Constitution, By-laws &amp; Resolutions</b>	<b>William Sames, Chair</b>	W. Becker, M. Nichols, S. Sawlis
<b>Financial Support</b>	<b>Patrick Beebe, Chair</b>	J. Flosi, M. Nichols
<b>Local Arrangements</b>	<b>Patrick Prather, Chair</b>	S. Swiger, S. Rico
<b>Nominating</b>	<b>Salvador Rico, Chair</b>	R. Duhrkopf, J. Flosi, S. Sawlis
<b>Young Professionals</b>	<b>Van Adams, Chair</b>	E. Chu, K. Dye-Braumuller, K. Haydett, E. Kirkscey, E. Plaisance
<b>Systematics</b>	<b>Jeff Flosi, Chair</b>	R. Duhrkopf, W. Sames
<b>Workshop CEU's</b>	<b>Sonja Swiger, Chair</b>	P. Prather, J. Flosi, M. Nichols

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For more information on Zenivex® products or to find a sales representative or authorized distributor, visit [www.CentralMosquitoControl.com](http://www.CentralMosquitoControl.com).



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**Greg Marciniak**

## **Message from the President Greg Marciniak**

Greetings fellow TMCA members.

This is my final newsletter message as your president. With Covid 19 complications, the past 2 years were trying for all of us, but the TMCA persevered. The TMCA had to cancel the 2020 fall meeting and replaced it with a virtual business meeting. The 2021 Spring Workshop was shortened to a 1-day virtual workshop. Both went reasonably well, and I would like to thank Dr. Sonja Swiger, Mike Nichols, and Patrick Prather for their hard work in getting them accomplished. We hope to have an in-person fall meeting in October in Austin, and the planning details are included in this issue. We will make a final decision about the annual meeting on September 15<sup>th</sup> and that decision will be posted on the TMCA webpage and social media accounts. We discussed alternatives such as a virtual meeting, so stayed tuned!

In June, Mark Johnsen replaced me as Chair of the TMCA Membership Committee. If you cannot reach him via the [membership@texasmosquito.org](mailto:membership@texasmosquito.org) email account, he can be reached at [mmjohnsen99@gmail.com](mailto:mmjohnsen99@gmail.com). Dr. Megan Wise-de-Valdez volunteered to Chair the TMCA Auditing Committee. Patrick Beebe, Orange County is retiring in January, and asked to be replaced as Chair of the Financial Support Committee. This committee coordinates with vendors for booth space, vendor sponsorships, and events at the annual meeting and spring workshop. If you would like to Chair this committee, email me at [marciniakg@msn.com](mailto:marciniakg@msn.com). I am unable to access the [info@texasmosquito.org](mailto:info@texasmosquito.org), so if you sent a message to me, please forward it to my personal account. Also, I would like to develop a pool of candidates for future openings on the TMCA Board of Directors. We have a 6-year President track and a 2-year Director track. I will a sign-up sheet at the fall meeting for this. If interested, you can also email me. It has been a tremendous honor and privilege to have served as your President this past year, and I hope to see all of you in Austin in October.

## **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 the newsletter subcommittee. If you have information of benefit to TMCA members, please submit that information to the TMCA Editor. Newsletters are published in January, May, August, and November. Photos and mosquito related humor are also welcomed. Consider submitting artwork or photos for a cover.

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

**American Mosquito Control Association Annual Meeting.** The AMCA Annual Meeting is scheduled for 28 Feb-4 March 2022 in Jacksonville, FL. Planned as an in-person meeting, but subject to change. Go to <https://www.mosquito.org/> for more information.

**TMCA Committees.** Interested in serving on a TMCA Committee? If yes, you may contact the Committee Chair **OR** go to the TMCA website and sign up online at <https://www.texasmosquito.org/membership-and-committees>. To join a committee, send a request to [info@texasmosquito.org](mailto:info@texasmosquito.org).

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# Mosquito Habitat Photo Challenge

**Editor Note: We received this information via the TMCA FaceBook page. I realize the deadline for submission is short, but you may still want to participate in this program. Please read through their materials and view some of their videos to help you decide.**

Letter: I'm reaching out to you, as a Mosquito Control group, to see if you would be interested in joining our Mosquito Habitat Photo Challenge. It's as easy as downloading the GLOBE Observer app and taking photos of mosquito larvae, their habitats, and the land cover around where you found the larvae. As you know, even if you don't find any larvae, zero is still data, and the habitat photos are land cover!

Four land cover and one mosquito science research group are working to create AI programs to analyze mosquito habitats and larvae identification. They need thousands of images to train their models. The Challenge begins on July 25 and runs through August 25, 2021. But you don't have to stop making observations then, every image is important!

Click the link to learn more about the challenge - <https://observer.globe.gov/mosquito-challenge>

Check out the Challenge Dashboard and let's get as many larvae images as we can!  
<https://geospatial.strategies.org/pages/mhpc>

The Global Learning and Observations to Benefit the Environment (GLOBE) Program invites citizen scientists from around the world to participate in the Mosquito Habitat Photo Challenge. This challenge combines Mosquito Habitat Mapper and Land Cover (two GLOBE Observer app tools) to document mosquito breeding habitats with photos.

GLOBE is seeking photos of mosquito habitats, in either natural or artificial containers. If mosquito larvae are present, you are encouraged to photograph them with your magnifier. Then, we'd like you to take photos of the land around the habitat location using the Land Cover tool.

Photos submitted during this challenge will be used to create automated classification programs that can identify mosquito larvae and the environments they prefer. Such computer programs can help prevent outbreaks of mosquito-borne disease.

We're a SciStarter Partner. SciStarter is the place to find, join, and contribute to science through more than 3,000 formal and informal research projects, events, and tools. Their database of citizen science projects enables discovery, organization, and greater participation in science. This is also the place to track your contributions, bookmark things you like, and access the tools and instruments needed to get started.

If you have any questions, please contact me - [Cassie\\_Soeffing@strategies.org](mailto:Cassie_Soeffing@strategies.org).

Cassie Soeffing

Senior Science Educator; Institute for Global Environmental Strategies; GLOBE Partner/GLOBE Observer Mosquito Habitat Mapper Coordinator and Informal Education Lead; Earth System Explorers NASA SEES Research Internship Mentor 2021



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Fyfanon® EW is a low-odor, water-based adulticide formulation containing the organophosphate active ingredient, malathion. That makes it ideally suited for a rotational strategy with your pyrethroid adulticides to better manage insecticide resistance in your mosquito populations. The resistance management you need from the partner you trust. Fyfanon® EW, now available exclusively from ADAPCO nationwide.

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- Contains 40.9% malathion
- Rates from 0.03 to 0.06 lbs. malathion per acre
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# Mosquitoes without borders: Surveillance and control of *Aedes aegypti* in the Lower Rio Grande Valley of South Texas

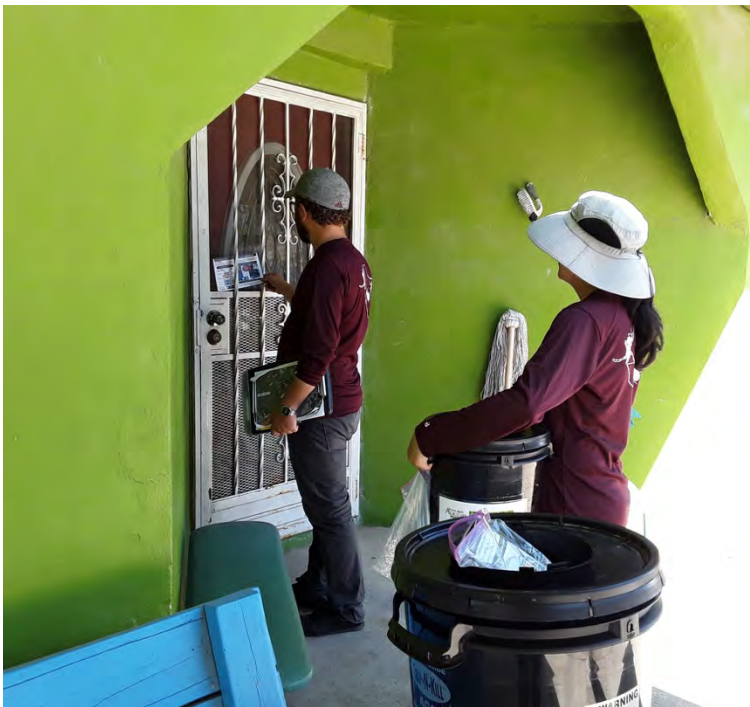
Jose Juarez Valdez

The mosquito *Aedes aegypti* remains a key public health threat for the urban transmission of arboviral diseases such as dengue, chikungunya, and Zika around the globe. Since 2016 the Hamer laboratory in the Department of Entomology at Texas A&M University has conducted several projects related to the ecology and control of this mosquito in the Lower Rio Grande Valley (LRGV). These projects identified novel ecological features of this mosquito and evaluated traps at a local level to help guide control programs in the LRGV.

In 2017, we evaluated the natural dispersal of *Ae. aegypti* from discarded containers using stable isotopic marking. The study showed that female and male mosquitoes disperse over 200m from their source of emergence, even crossing canals that divide communities. These data about adult dispersal behavior helped to refine vector control in the region.

During this time, we also conducted knowledge, attitudes, and practices surveys to community members. These helped us identify risk factors associated with the indoor and outdoor abundance of female mosquitoes. We identified several factors associated with female abundance. An interesting one was that the presence of children less than 5-years of age in a household modulated both indoor (higher) and outdoor (lower) female abundance.

Recently, we finalized our analysis of an Autocidal Gravid Ovitrap (AGO) intervention that took place between 2017 and 2018. We were able to identify that the AGO worked as a control tool in the LRGV; however, the efficiency of the trap was limited by the level of coverage achieved. The results showed that interventions with this trap need to be coupled with other control methods if coverage is not achieved or reconsidered. To learn more about our findings regarding mosquito risk factors and the AGO as a control tool in Texas, please visit with us at 2021 TMCA Annual Meeting in Austin, TX from Oct. 12-14. Also, our project publications are available at <https://hamerlab.tamu.edu/publications/>.



Photos by Ester Carbajal. Pictures include Jose Valdez, Sofia Cabañas, Edwin Valdez, Juliet Vallejo, and Noel Hahn.

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And it was the first larvicide to be reviewed as a Reduced Risk product by the U.S. EPA.

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**Formulation  
Spotlight**



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# Week 31, 2021 Mosquito-Borne Disease Update



**TEXAS**  
Health and Human  
Services

Texas Department of State  
Health Services

2021 DSHS Arbovirus Activity Report  
Week #31 (ending August 7, 2021)  
Report Date: August 10, 2021

Table 1. 2021 Arbovirus Activity Summary, Texas, Week 31

Arbovirus	Positive Mosquito Pools	Avian	Equine	Sentinel Chicken	Human					
					Febrile Illness	Neurologic Illness	Severe Dengue	TOTAL (HUMAN)	Deaths	PVD <sup>2</sup>
California Serogroup <sup>1</sup>								0		
Chikungunya								0		
Dengue					3			3		
Eastern Equine Encephalitis								0		
St. Louis Encephalitis	6							0		
West Nile	537	5		1		2		2		9
Zika								0		
<b>TOTAL REPORTS</b>	<b>543</b>	<b>5</b>	<b>0</b>	<b>1</b>	<b>3</b>	<b>2</b>	<b>0</b>	<b>5</b>	<b>0</b>	<b>9</b>

<sup>1</sup> California Serogroup includes California encephalitis, Jamestown Canyon, Keystone, La Crosse, snowshoe hare, and trivittatus viruses.

<sup>2</sup>PVD - Presumptive viremic blood donors are people who had no symptoms at the time of donating blood through a blood collection agency, but whose blood tested positive when screened for the presence of West Nile virus or Zika virus. Unless they meet the case reporting criteria, they are not counted as a case for official reporting purposes and are not included in the "Total (HUMAN)" column.

Note: Human mortality from arboviral conditions is aggregated and reported monthly once documentation has been received and verified.

For more detailed information about West Nile virus, including past weekly and annual reports, please visit

<http://www.dshs.texas.gov/idcu/disease/arboviral/westNile/>

For more detailed information about Zika, please visit <http://www.texaszika.org/>

Table 2. 2021 Aedes-Associated Arbovirus Activity by County†, Week 31

County	CHIKV		DENV*		ZIKV		
	M	H	M	H	M	H	PVD
Montgomery				1			
Tarrant				1			
Travis				1			
Total Number of Reports	0	0	0	3	0	0	0

M - mosquito H- human

CHIKV - Chikungunya Virus

DENV - Dengue Virus

ZIKV - Zika Virus

\* All reported cases are imported.

†County level data is not reported for conditions with <5 cases reported in a year.

## West Nile virus, SLE, and Dengue Fever virus Detected in Texas

For 2021, the West Nile virus positive mosquito traps are higher than the previous 2 years. Saint Louis encephalitis was detected in El Paso and Galveston. WNV transmission to humans has been detected in 6 counties, and one death has been reported in Dallas County. A total of three travel cases of Dengue Fever were reported from Montgomery, Tarrant, and Travis Counties. For more, go to:

<https://dshs.texas.gov/idcu/disease/arboviral/westNile/reports/weekly.aspx?terms=arbovirus%20weekly%20summary>

# Highlights from the National WALS Summit

View video recordings of every summit presentation at:

<https://www.valentbiosciences.com/publichealth/wals-national-virtual-summit-may-21-2020-video/>

WALS, the innovative, biorational application strategy for control of container mosquitos such as *Aedes aegypti*, has been the subject of a tremendous amount of research since its contributing role in breaking the dengue and Zika transmission cycles in 2010 (Florida Keys) and 2016 (Miami-Dade County, Florida) respectively. Co-innovated by mosquito abatement / Public Health professionals around the globe with support from Valent BioSciences, WALs was the topic of a national virtual summit in May of last year.

The entire six-hour program is now available for viewing online through the Valent BioSciences [WALS portal](#).

The WALs Summit was hosted by Dr. Kesavaraju and Leanne Lake. Lake, Kesavaraju helped guide WALs operational implementations, working alongside pioneering mosquito abatement programs in Florida, California, Utah, New York, and New Jersey. Since its introduction, WALs has been adopted in 13 states, including Texas.



## Adulticide Resistance, Operations Info, and Real-World Data

Dr. Isik Unlu, Operations Manager for Miami-Dade County Mosquito Control Division in Florida, kicked off the Summit with a presentation about the inherent challenges associated with container-inhabiting invasive mosquitoes including widespread resistance to adulticides and the cryptic nature of their breeding sites. Unlu reported on her experience in operations and WALs strategy optimization during and since the 2016 Zika

outbreak in Miami-Dade. Next was Casey Parker, Technical Development Specialist from ADAPCO, who dove deeper into the insecticide susceptibility status of mosquitoes. Seleena Benjamin, VBC Manager Asia/India Region, provided background on the origins and evolution of WALs research and strategy in response to endemic dengue.

Andrea Leal, Executive Director of the Florida Keys Mosquito Control District, shared her experiences as part of the team that implemented the first aerial WALs application globally of VectoBac WDG biorational larvicide in 2010 after the Keys experienced its first locally acquired dengue cases in 75 years.

Dr. Keira Lucas, Director of Research at Collier County Mosquito District in Florida, led a presentation on use of unmanned aerial vehicles (drones) in WALs applications. She was followed by Dr. Grayson Brown, Executive Director of the Puerto Rico Vector Control Unit, recapped implementation of the WALs strategy in Puerto Rico.

For those new to WALs, Leanne Lake gave a presentation on parameters to consider when choosing which WALs application approach to pursue and the technical aspects of equipment options and mixing methods/equipment.

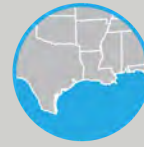
Contact Candace Royals at 813-505-8852 or [candace.royals@valentbiosciences.com](mailto:candace.royals@valentbiosciences.com) for more information on WALs.

For her work on WALs, Candace was honored by the Florida Mosquito Control Association (FMCA) Awards Committee with the Fred Stutz Memorial Award at the FMCA's 91st Annual Meeting in 2019. The Stutz Award, established in 1994, recognizes an outstanding contribution to mosquito control by development of procedures that increase effectiveness in mosquito control. Candace was only the ninth recipient of the award in the 25 years since it was established.



2021

## Master Vector-Borne Disease Management Certification Course



Western Gulf Center of Excellence  
for Vector-Borne Diseases

Sept. 21 -23: Houston, TX

Oct. 19-21: Dallas, TX

Nov 16-18: San Antonio, TX

Dec 2-3: El Paso, TX

### All Fees are Covered

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OR Call Heidi Nivens at 254-974-9433

*Includes Breakfast & Lunch all days*

### 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





## SAVE THE DATE

**Western Gulf Center of Excellence  
for Vector-Borne Diseases Annual Progress Meeting**  
September 23<sup>rd</sup> – 24<sup>th</sup> 2021 at Moody Gardens—Galveston Island

We are thrilled to announce the dates for the 4<sup>th</sup> Annual WGCVBD Progress Meeting to be held on September 23<sup>rd</sup> and 24<sup>th</sup> at Moody Gardens in Galveston, TX. We invite public health workers, research scientists, vector control personnel, and other individuals involved in the sector to attend unique presentations from experts in the Western Gulf region and engage in meaningful discussion regarding anticipation, prevention and control of vector-borne diseases. To attend, please register for the meeting using the link below.

\*Limited support is available for public health employees without a travel budget. Please contact Caroline Weldon at [caweldon@utmb.edu](mailto:caweldon@utmb.edu) for more information.

The meeting agenda and Moody Gardens hotel reservation link (discounted rate) will be added to the [registration page](#) in the coming weeks. Please check back for updates and make your own reservations at that time.

Please feel free to forward the invite and registration link to groups of interest, including students!

[Click here to register.](#)

### Hotel Information



### Airport Information

George Bush Intercontinental Airport (IAH)  
or  
Houston-Hobby Airport (HOU)



## Mark Johnsen Assumes Role as Chair of the TMCA Membership Committee

In June, Dr. Mark Johnsen took over the duties as Chair of the TMCA Membership Committee. He is a previous TMCA President and has assisted with numerous Workshop and Annual Meeting registrations. If you have not paid your 2021 dues, please complete the application on the last page of this newsletter and send it to Mark. Contact him at [TMCAMembership@gmail.com](mailto:TMCAMembership@gmail.com).

### Call for TMCA Board Nominations – **Deadline – October 1, 2021**

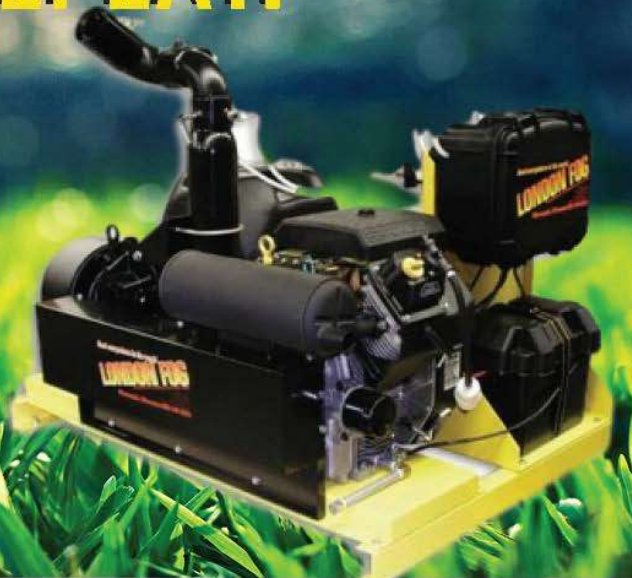
Salvador Rico (Past President) is the Chair of this year's Nominating Committee and he is accepting membership input for the nomination and election of the TMCA Board of Directors offices for 2021-2022. Send nominations to [info@texasmosquito.org](mailto:info@texasmosquito.org) ATTN Salvador Rico.

Per the TMCA By-Laws all positions are open for reelection except for President, President-elect, and Past President. For stability, only the Treasurer and Secretary positions can be held for multiple years. For the past 10-20 years or more, the Nominating Committee has normally recommended everyone move up to the next higher position, which means after 6 years on the Board, they would be President, then Past President, then off the Board. The committee then nominated a new person each year.

In 2017, the procedure was changed, so that a person could serve in a 2-year Director Track or a 6-year Board Officer Track. This meant that the Nominating Committee would bring in 2 new persons each year and 2 persons (the Past President and a Director) would rotate off the Board.

# PREPARE. PROTECT. REPEAT.

## It's so important, it is all we do!



\*Pictured Model 18-20

**LONDON FOGGERS**  
WORLDWIDE VECTOR CONTROL SINCE 1968

[www.londonfoggers.com](http://www.londonfoggers.com) | [info@londonfoggers.com](mailto:info@londonfoggers.com)  
800-448-8525 | 952-473-5366





## **TMCA Plans Face-to-Face Annual Meeting in October 2021**

Even though COVID 19 is still circulating in Texas, the TMCA Board of Directors initiated the process of having a face-to-face Annual Meeting in October. It is hoped that increased vaccination rates and continued precautions will significantly reduce the threat of COVID so that the meeting can take place. This will be the first face-to-face Annual Meeting since October 2019. The meeting is scheduled to be at The Hyatt Place Austin Airport, 9532 Spirit Of Austin Lane, Austin, TX on October 12-14, 2021. This event will be like previous Annual Meetings where the 12<sup>th</sup> is for registration, vendor and meeting set up, the fall TMCA Board Meeting, and socials. The opening presentations will begin early on the 13<sup>th</sup> with the Annual Business Meeting being conducted that afternoon. On the 14<sup>th</sup> the presentations will resume and end about noon. The Call for Papers is in this newsletter, so consider presenting at this meeting and sending that information to Nina Dacko, Chair, TMCA Program Committee. Annual Meeting Registration forms (Vendor and Member) will be available in the August TMCA newsletter and on the TMCA website. Scholarship and Award information will be available on the website and in the August newsletter.

A block of rooms has been reserved for the meeting. Room rates will be \$139/night, and reservations can be made through this link:

[https://www.hyatt.com/shop/auszi?location=Hyatt%20Place%20Austin%20Airport&checkinDate=2021-10-12&checkoutDate=2021-10-14&rooms=1&adults=1&kids=0&corp\\_id=G-TMCA](https://www.hyatt.com/shop/auszi?location=Hyatt%20Place%20Austin%20Airport&checkinDate=2021-10-12&checkoutDate=2021-10-14&rooms=1&adults=1&kids=0&corp_id=G-TMCA)

**Group Code is G-TMCA.**

**Editor's Note: With the resurgence of COVID 19, the TMCA Board of Directors will make a final decision about this event on September 15th. Their decision and proposed actions will be posted on the TMCA website and in its social media platforms.**

**TEXAS MOSQUITO CONTROL ASSOCIATION  
2021 ANNUAL MEETING  
THE HYATT PLACE AUSTIN AIRPORT  
AUSTIN, TEXAS**

**TUESDAY, 1 OCTOBER 20**

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

**WEDNESDAY, 1 OCTOBER 20**

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, 1 OCTOBER 20**

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  
2021 Annual Meeting**

**October 12-14, Austin Texas**

**PRE-REGISTRATION FORM**

**Pre-registration deadline is October 6, 2021**

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

**Delegate and Student registrations include complimentary 2021 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 2022 membership)

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

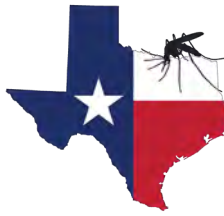
Student: \_\_\_\_\_ Fee: \$65 (must show valid student ID)  
(Includes complimentary 2022 membership)

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:

Dr. Mark Johnsen,  
Chair, TMCA Membership Committee  
10213 Buckwood Ave  
El Paso, Texas 79925  
Email: [tmcamembership@gmail.com](mailto:tmcamembership@gmail.com)



## *Texas Mosquito Control Association*

### **2021 TMCA Annual Fall Meeting**

#### **Exhibitors/Sponsors**

The TMCA Annual Fall Meeting will be held at the Hyatt Place Austin Airport, 9532 Spirit of Austin Lane, Austin, TX 78719, October 12-14, 2021. The Meeting begins the morning of the 13<sup>th</sup>. Exhibitor's can begin set up of displays on the afternoon of the 12<sup>th</sup> in the Banquet Room. This Meeting offers the opportunity to provide information about your products to customers in the eastern central region of our state. Each exhibitor or sponsor will be allowed 5 minutes during the program for a presentation. Hotel information is as follows – Hyatt Place Austin Airport, 9532 Spirit of Austin Lane, Austin, TX 78719, Phone # 512-272-5001, Room Rate \$139 single/double, refer to TMCA group code G-TMCA for room block rate when making reservations.

Information on exhibit space and sponsorship of events is provided (see Exhibitor Registration Form). Your sponsorship for the various events would be greatly appreciated.

Sponsorship of events is on a first come basis. However, if you would like to be a co-sponsor with another company that can be arranged. **ONLY TWO SPONSORS PER EVENT WILL BE ACCEPTED WITH EACH SPONSOR PROVIDING HALF OF THE COSTS.**

If you plan to sponsor or co-sponsor an event please **LET ME KNOW AS SOON AS POSSIBLE** so we can prepare a poster with your company name and logo.

If you have questions about exhibiting or sponsoring at the Austin Meeting please call me direct at (409) 883-5717.

**Please remember to fill out Fall Meeting Pre-Registration form and send in to Mark Johnsen, if you have attendees who will not receive free registrations through sponsorship.** If you don't send in your registration forms, there will be no name badges, etc. ready for you when you get there! Mark's contact information is provided on TMCA website under Annual Meeting Pre-registration Form.

**SUPPORT TMCA!**

**SEE YOU IN AUSTIN!**



# Texas Mosquito Control Association Fall Meeting, October 12-14, 2021

The Hyatt Place Austin Airport  
9532 Spirit of Austin Lane  
Austin, TX 78719, (512) 272-5001

## 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):	
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.

\*\*In the event of Conference cancelation due to Covid-19 restrictions, sponsorship will be credited towards next scheduled meeting .

Payment Enclosed      Company Check mailed      Credit Card Payment (at meeting 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)

**62<sup>nd</sup> Annual Meeting of the Texas Mosquito Control Association**  
**Hyatt Place Airport Austin, Austin, TX; October 12-14, 2021**

**CALL FOR PAPERS**

NAME OF AUTHOR(S):

PRESENTER

PRESENTER'S EMAIL:

AFFILIATION AND ADDRESS:

TITLE OF PAPER:

PRESENTATION MEDIA REQUESTED

POWERPOINT (Default)

OTHER (please specify)

DEADLINE FOR PAPER SUBMISSION IS THE 3RD of September 2021

Preferred presentation day?      Oct 13th      Oct 14th      None (Default)

**Submit to e-mail Address: [nmdacko@TarrantCounty.com](mailto:nmdacko@TarrantCounty.com)**

**NOTE: Please use "Call for Papers 2021" in the Subject Line of your email.**

\*\*\*Submit Young Professionals student competition abstracts to [TMCAYP@gmail.com](mailto:TMCAYP@gmail.com)

\*\*\*Submit Scholarship or Awards submissions to [insectdoc.jf@gmail.com](mailto:insectdoc.jf@gmail.com)



## **Texas Mosquito Control Association Young Professionals Third Annual Student Competition Call for Papers and Guidelines**

### **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 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, 2021. 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 2021. 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> (please 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 2021 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>



## Join the TMCA Young Professionals!



The intent of the Young Professionals is to provide professional experiences and networking opportunities for TMCA members who have been involved with vector control and/or research for less than 5 years. Your age does not matter, just your mosquito-related experience and YP **membership is free!** You can join our organization by sending:

- 1) Your name
- 2) The number of years you have been in mosquito/vector control and/or research
- 3) How you became involved with mosquito/vector control and/or research to [TMCAYP@gmail.com](mailto:TMCAYP@gmail.com) OR by joining our Facebook group “Texas Mosquito Control Association Young Professionals”.

The TMCA YPs’ current activities include:

1. Networking with other YPs at the TMCA Annual Meeting, TMCA Spring Workshop, and via our Facebook group
2. A YP dinner at the TMCA Annual Meeting
3. Hosting and participating in a Student Presentation Competition at the TMCA Annual Meeting
4. Representing Texas at the AMCA Annual Meeting

*While at the TMCA Annual Meeting, consider the following:*

## **Texas Department of State Health Services Arbovirus/Entomology Laboratory Tours**

**Location: 1100 West 49<sup>th</sup> Street, Austin, TX 78756**

Description: The Texas DSHS Arbovirus/Entomology Laboratory assists local jurisdictions with monitoring mosquito populations and detecting arbovirus activity in their communities. Services provided by the Lab include mosquito species identification, arbovirus testing, and insecticide resistance testing. This information is used by health departments and vector control agencies to make assessments regarding human risk for mosquito-borne diseases and guiding mosquito control activities. The Laboratory receives between 10,000-20,000 trap collections every year from counties throughout Texas. Mosquitoes are identified and tested for endemic viruses like West Nile virus and for newly emerging arboviruses.

Insecticide resistance testing services are offered to evaluate the utility of mosquito control efforts against targeted vector species.



### **Highlights:**

1. Meet the Arbovirus/Entomology Laboratory team!
2. See the mosquito identification and testing processes in action!
3. Have peace of mind knowing what happens to your mosquitoes once you send them to DSHS!

Details about where to park, current mask-wearing recommendations, etc will be emailed to those who sign up for a tour.

**Tuesday, October 12<sup>th</sup>, 2021**

**2-2:45pm**

**3-3:45pm**

**Thursday, October 14<sup>th</sup>, 2021**

**1-1:45pm**

**2-2:45pm**



Email [bethany.bolling@dshs.texas.gov](mailto:bethany.bolling@dshs.texas.gov) to sign up for a tour.

Arrive 5-10 minutes early to check in with Laboratory security guards.

Make sure to bring your driver's license.

## TMCA SCHOLARSHIPS

If you would like to apply for one of the scholarships, please contact the Chair of the Scholarship and Awards Committee:

Dr. Jeff Flosi, Chair  
TMCA Scholarship and Awards Committee  
[insectdoc.jf@gmail.com](mailto:insectdoc.jf@gmail.com)

### UNDERGRADUATE SCHOLARSHIP

The **James D. Long Undergraduate Scholarship**, in the amount of \$1,000, is awarded each year to one qualified undergraduate student attending college or 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 and field. Individual research experiences should be designed in a close collaboration between the undergraduate student and the faculty sponsor before the application is submitted

#### From the undergraduate student applicant:

- Completed application with personal information, (including mailing address, email address, and telephone number). *Application must be made on the form provided by the Scholarship and Awards Committee.*
- Two letters of recommendation from professors or instructors (other than the faculty sponsor) familiar with the student's work
- Research proposal briefly describing the scientific goals of the collaboration (no longer than one page, and written with the help of the faculty sponsor)

#### From the faculty sponsor:

- Student letter of recommendation, including a statement supporting the proposed project, and an agreement to host and train the student in your laboratory

### GRADUATE SCHOLARSHIPS

*Students may apply for only one of the graduate scholarships, so please select the one that best suits your research endeavors.*

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 was 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 Texas college or university at the time the scholarship is awarded.

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 Texas college or university at the time the scholarship is awarded. The recipient must be engaged in research with mosquitoes, insects, or related disease transmission.

**From the graduate student applicants:**

- Completed application with personal information (including mailing address, email address, and telephone number). *Application must be made on the form provided by the Scholarship and Awards Committee.*
- Resume
- One copy of the student's academic transcript
- Two letters of recommendation from professors or instructors (other than the faculty sponsor) familiar with the student's work
- Research proposal providing an overview and briefly describing the scientific goals of the proposed collaboration (no longer than one page, and written with the help of the faculty sponsor)

**From the faculty sponsor:**

- Letter of recommendation for the student, including a statement of support for the proposed project, and an agreement to host and train the student in your laboratory

**REQUIREMENTS FOR ALL SCHOLARSHIP RECIPIENTS**

- Must attend the TMCA Annual Meeting to receive the scholarship
- Must present a paper one year following receipt of the scholarship at the TMCA Annual Fall Meeting
  - All reasonable travel, food, and lodging costs related to the receipt of the award and presentation of the paper to the TMCA will be paid by TMCA.
  - Reimbursement of these expenditures will be subject to approval by the Chair of the Scholarship and Awards Committee.
  - Receipts for these expenditures must be submitted along with claims for reimbursement
  - Recipient should use the most economical means of travel.
  - All travel is confined to the state of Texas.
  - Deviations from these requirements are subject to approval by the TMCA Board of Directors

**Application deadlines and Recipient Announcements**

The Scholarship and Awards Committee must receive applications and all support materials no later than **Friday, 1 October 2021**. The TMCA is not responsible for late, lost, or misdirected applications.

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

Dr. Jeff Flosi, Chair  
[insectdoc.jf@gmail.com](mailto:insectdoc.jf@gmail.com)

**TEXAS MOSQUITO CONTROL ASSOCIATION  
SCHOLARSHIP APPLICATION FORM**

**Check scholarship for which you are applying (*only one*):**

\_\_\_ James D. Long Undergraduate Scholarship (Undergraduate)

\_\_\_ James "Gus" Foyle Memorial Scholarship (Graduate)

\_\_\_ Jimmy K. Olson Memorial Scholarship (Graduate)

**PERSONAL INFORMATION**

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

**Address:** \_\_\_\_\_

\_\_\_\_\_

**Telephone:** \_\_\_\_\_

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

**Permanent Address** (*if different from above*)

\_\_\_\_\_

\_\_\_\_\_

**ACADEMIC BACKGROUND**

**High School(s) Attended:**

(1) \_\_\_\_\_

(2) \_\_\_\_\_

Date Graduated: \_\_\_\_\_

**Colleges/Universities Attended:**

(1) \_\_\_\_\_

(2) \_\_\_\_\_

(3) \_\_\_\_\_

**Major/Minor**

---

---

**Degree** \_\_\_\_\_

Date Graduated \_\_\_\_\_

**Degree** \_\_\_\_\_

Date Graduated \_\_\_\_\_

**Honors, Awards, and Extracurricular Activities**

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---

**Student Organization Memberships**

(1) \_\_\_\_\_

(2) \_\_\_\_\_

(3) \_\_\_\_\_

**Awards or Honors**

---

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**Other Scholarships, Grants, or other Funds:**

**Name/Type**

(1) \_\_\_\_\_

Source \_\_\_\_\_

(2) \_\_\_\_\_

Source \_\_\_\_\_

(3) \_\_\_\_\_

Source \_\_\_\_\_

**PRESENT AND PAST EMPLOYMENT** *(beginning with your most recent)*

**Name and Address of Employer**

(1) \_\_\_\_\_

\_\_\_\_\_

Job Title \_\_\_\_\_

(2) \_\_\_\_\_

\_\_\_\_\_

Job Title \_\_\_\_\_

(3) \_\_\_\_\_

\_\_\_\_\_

Job Title \_\_\_\_\_

(4) \_\_\_\_\_

\_\_\_\_\_

Job Title \_\_\_\_\_

## **RESEARCH PROPOSAL** (*under separate cover*)

In this summary of your research, briefly describe your research and tell how it relates to mosquito control or insect biology. Other information you might include: title of your research, when you began your research, or when you plan to begin, and why you chose to pursue this particular research topic. Also, describe how the scholarship funds will be used to further your research and academic studies.

## **REQUIREMENTS FOR ALL SCHOLARSHIP RECIPIENTS**

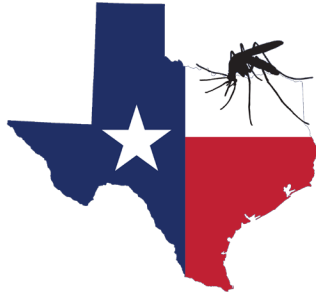
- Must attend the TMCA Annual Meeting in the fall to receive the scholarship
- Must present a paper one year following receipt of the scholarship at the TMCA Annual Fall Meeting
  - All reasonable travel, food, and lodging costs related to the receipt of the award and presentation of the paper to the TMCA will be paid by TMCA.
  - Reimbursement of these expenditures will be subject to approval by the Chair of the Scholarship and Awards Committee.
  - Receipts for these expenditures must be submitted along with claims for reimbursement
  - Recipient should use the most economical means of travel.
  - All travel is confined to the state of Texas.
  - Deviations from these requirements are subject to approval by the TMCA Board of Directors



Please submit application materials electronically by email

Dr. Jeff Flosi, Chair  
TMCA Scholarships and Awards Committee  
[insectdoc.jf@gmail.com](mailto:insectdoc.jf@gmail.com)





## F. W. "BULL" SCHMIDT MEMORIAL AWARD

The Texas Mosquito Control Association will present an award, the F. W. "Bull" Schmidt Memorial Award, to a qualified individual who has made contributions of an operational nature to mosquito control. The award will be given only in years when there is a qualified applicant and will be presented at either the annual Fall Meeting or the TMCA Spring Workshop. The TMCA Scholarship and Awards Committee will determine if there is a qualified applicant. The selection process will be based on a written description detailing the applicant's contributions.

The letter must be submitted by the applicant's supervisor to the committee chair not later than September 15<sup>th</sup> for the 2021 annual meeting. The recipient of the award must comply with the following:

- (a) resident of the State of Texas;
- (b) employed by a municipal or private mosquito control operation in Texas;
- (c) has made contributions of an operational nature.

Examples for this award could include, but are not limited to, the following: employee education programs, improved safety procedures, improved maintenance procedures, implementation of public relations programs, improved record-keeping procedures, improved collections devices, or construction of new or improved equipment.

The award will consist of a plaque and the TMCA will pay the recipient's expenses to attend that year's fall meeting or spring workshop. The TMCA president will notify the recipient's supervisor and express the association's appreciation for the supervisor's support of the recipient and the goals of the TMCA. In addition, the TMCA Scholarship and Awards Committee will notify the news media in the recipient's area concerning the award.

Submit application materials to the Chair of the Scholarship and Awards Committee:

Dr. Jeff Flosi, Chair  
Scholarship and Awards Committee  
[Insectdoc.jf@gmail.com](mailto:Insectdoc.jf@gmail.com)



# In an unpredictable year, be ready for anything.

## Emergency Response Mosquito Management Services

- Federal, State, and Local Coordination
- Seamless Preparation
- Aerial and Ground Applications
- Navigating Emergency Funding
- PR and Media Support

**Don't wait until disaster strikes.**

**Be prepared. Call today.**

**Vector Disease Control International**  
**1.800.413.4445 | [vdc.net](http://vdc.net)**



# 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 in 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 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.

---

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: Dr. Mark Johnsen,  
Chair, TMCA Membership Committee  
10213 Buckwood Ave  
El Paso, Texas 79925

Phone: 979-595-7711 Email: [tmcamembership@gmail.com](mailto:tmcamembership@gmail.com)